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The American Statistical Association Institute of Mathematical Statistics

International Biometric Society

Eastern North American Region Western North American Region

Statistical Society of Canada



Discover STATISTICAL SOFTWARE & SERVICES New Statistical Innovations



New clinical trial design tools improve planning of complex studies

- · Report-ready tables for protocol review and results submission
- · t-test designs for trials utilizing smaller sample sizes
- Simulation of single-look designs
- New visualization tools make it easier to communicate trial concepts amongst clinical team





Wide array of procedures for 2x2 crossover experiments

- · Parametric and nonparametric operations for both continuous and binary data
- Tests for continuous data: Carryover, Period and Treatment effects
- Power and sample size for superiority test
- Descriptive and summary PK/PD parameter statistics and plots





Friedman's Aligned Rank Test in addition to the standard Friedman test

Stratified Wilcoxon Signed Rank Test

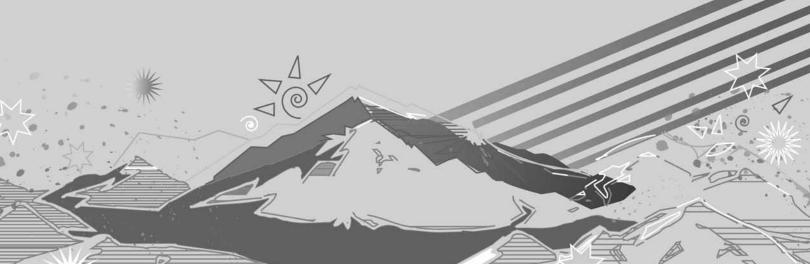
when continuous variable data from paired samples arise from several strata



Profile Likelihood Based Confidence Intervals for parameters of binary logistic regression - use with or without Firth correction

Download FREE trial versions at www.cytel.com

General Information	Career Placement Service	
Housing Map and Hotel Listing2	Floor Plan	2
Convention Center and Hotel Floor Plans3	Employer Listing	23
Registration Area Floor Plan5		
Committee and Society Tables5	Exhibitors	
While at JSM6	EXPO 2007 Floor Plan	24
Meetings and Sessions7	Exhibitors by Booth Number	2!
Before Leaving JSM8	Who's Who in the Exhibit Hall	20
Hours of Operation9		
Keynote Speakers11	General Program Schedule	
IMS Special Lectures12	Thursday, July 26	3:
2007 Program Committee14	Friday, July 27	3:
Local Area Committee14	Saturday, July 28	3!
Advisory Committee on Continuing Education14	Sunday, July 29	3
	Monday, July 30	6!
Association Officers	Tuesday, July 31	11
ASA15	Wednesday, August 1	16
ENAR16	Thursday, August 2	20
WNAR17		
SSC17		
IMS18	Index of Participants	24
	Index of Continuing Education Instructors	27
Continuing Education	Advertising Index	272
Continuing Education at a Glance19		
Computer Technology Workshops at a Glance21		
		100



Housing Map and Hotel Listing



1 The Grand America Hotel

555 South Main Street COC/COS, business/committee, and social activities

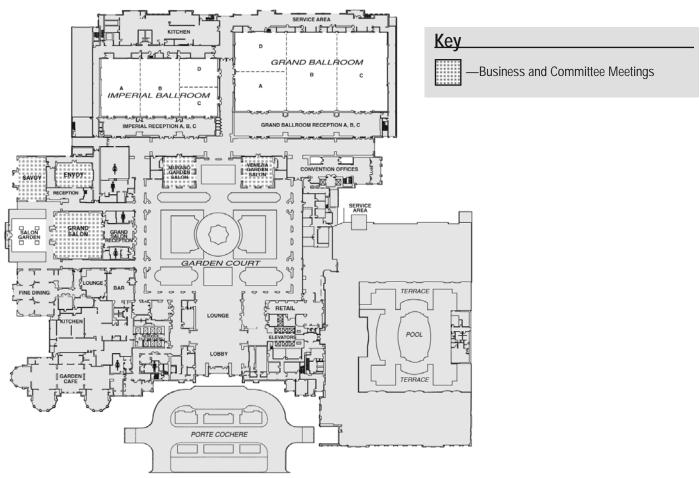
No Scheduled Activities

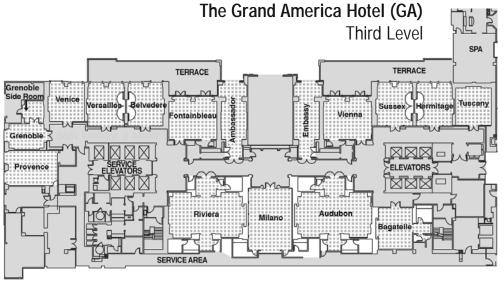
- 2 Little America Hotel 500 South Main Street
- 3 Radisson Hotel Salt Lake City Downtown 215 West South Temple
- 4 Salt Lake City Marriott Downtown 75 South West Temple
- 5 Shilo Inn Suites Hotel 206 South West Temple
- 6 Hilton Salt Lake City Center 255 South West Temple

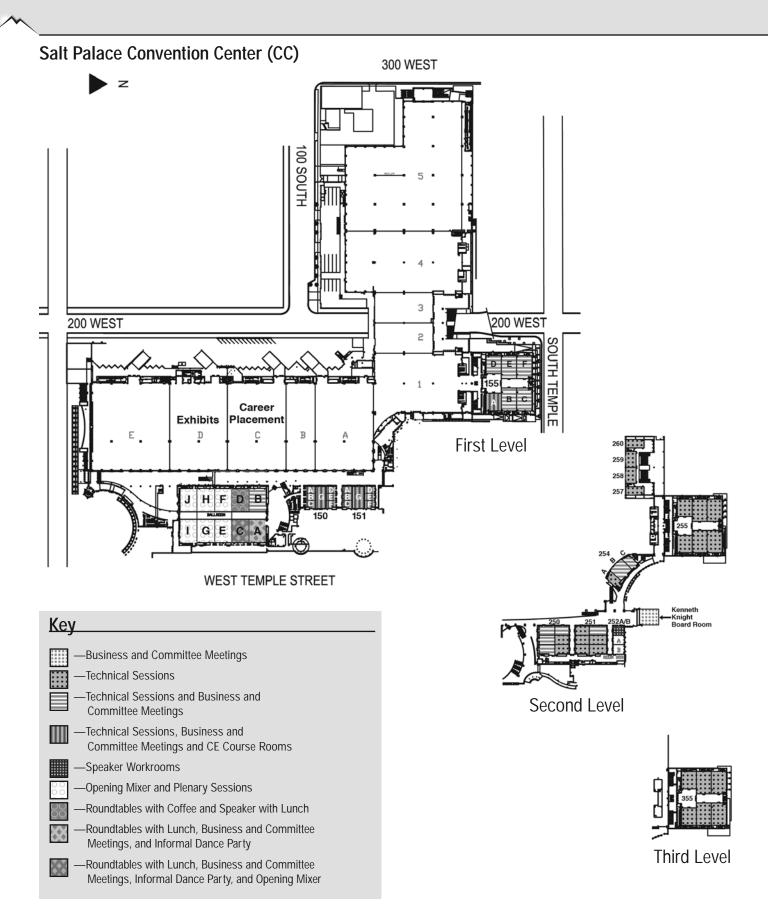
- 7 Salt Lake City Marriott City Center 220 South State Street
- 8 Sheraton City Centre Salt Lake City 150 West 500 South
- 9 Red Lion Salt Lake Downtown 161 West 600 South
- **10 Best Western Garden Inn** 154 West 600 South

The Grand America Hotel (GA)

First Level

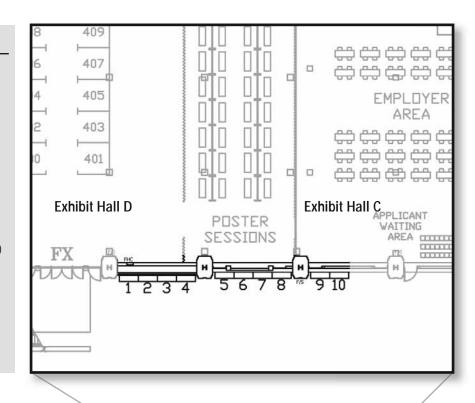


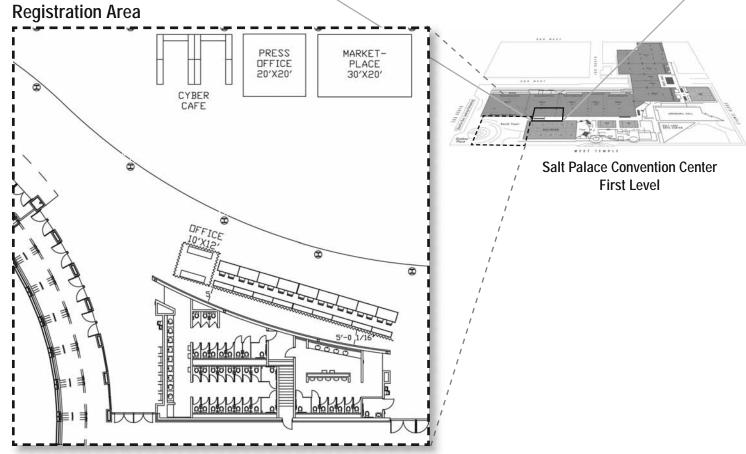




Committee and Society Tables

- 1. ASA Career Development Committee
- 2. ASA Council of Chapters
- 3. ASA Statistical Education
- Caucus for Women in Statistics
- 5. Federal Committee on Statistical Methodology (FCSM)
- 6. Gay and Lesbian Concerns in Statistics
- International Chinese Statistical Association (ICSA)
- International Indian Statistical Association (IISA)
- **Christian Statisticians**
- 10. International Statistical Institute (ISI)







Emergency Telephone Messages

The general conference telephone number is (801) 534-4750. This will connect you to the JSM Special Assistance Desk and should only be used for emergency purposes. Emergency messages will be posted in the Cyber Center, located in the registration area. All other calls or messages should be left in the attendee's guestroom on his/her voice mail.

Convention Hotels

The main phone numbers for the convention hotels are:

The Grand America Hotel	(801) 258-6000
Little America Hotel	(801) 596-5700
Radisson Hotel Salt Lake City Downtown	(801) 531-7500
Salt Lake City Marriott Downtown	(801) 531-0800
Shilo Inn Hotel	(801) 521-9500
Hilton Salt Lake City Center	(801) 328-2000
Salt Lake City Marriott City Center	(801) 961-8700
Sheraton City Centre Hotel Salt Lake City	(801) 401-2000
Red Lion Salt Lake Downtown	(801) 521-7373
Best Western Garden Inn	(801) 521-2930

Assistance for Those with Disabilities

If you have a disability that may impede your participation, please contact a staff member at the Special Assistance Desk in the registration area of the Salt Palace Convention Center.

Child Care

Child care services may be organized through Guardian Angels. Providers will come to your hotel room. The rate is \$60 for a minimum of four hours of service for the first child, with an additional \$1 per hour for each additional child. The fee for

families that want to share a sitter is \$2 more per hour for each family, or \$5 more per hour for each family when children in diapers are involved. A \$10 transportation fee is added to the total each time a sitter is called. Fore more information, call (206) 325-2327 or visit www.guardianangelbaby.com.

The Caucus for Women in Statistics will provide a subsidy toward four hours of babysitting per family for up to 14 families. If you are interested, contact Tena I. Katsaounis at *katsaounis.1@* osu.edu.

Electronic Devices

All cell phones, pagers, and other electronic devices must be turned off before attending any JSM session. These devices cause interference with the audiovisual equipment and are a distraction to the session speaker and attendees.

Smoking Policy

Smoking is not permitted at any JSM function, unless the event is outside.

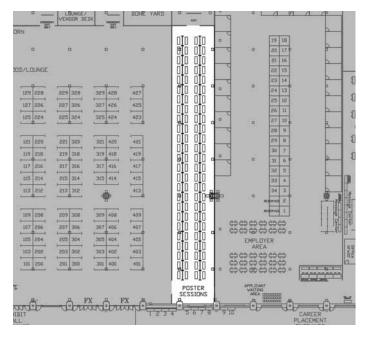
Photographs and Videotaping

Taking photographs or using video equipment in any session or at any JSM event is prohibited, and violators will be asked to leave. Only the official JSM photographer will be authorized to take photographs.

Recycling

You can help by making use of the paper, plastic, and aluminum trash containers located throughout the Salt Palace Convention Center. Also, participating in the towel and linen programs at area hotels significantly reduces the amount of energy and water used. You also can print sparingly and use the paper recycling containers available at the Cyber Center.

Poster Sessions - New Format This Year!



CC - Exhibit Hall D

Designed for the display of graphic materials, rather than the text of a paper, these sessions provide authors an assigned poster board that corresponds with the number listed in this program. Though speakers will only be present at their posters during their allotted session time, the posters will be displayed on Monday and Tuesday from 8:00 a.m. to 6:00 p.m., allowing attendees to view them throughout the day.

Introductory Overview Lectures

Introductory Overview Lectures make up a series of talks on a variety of topics. No preregistration is necessary, and they are open to all registrants.

CC - 255E Sunday, July 29, 4:00 p.m.-5:50 p.m.

Session 37: Adaptive Designs and Other Emerging Issues in **Clinical Trials**

Session 219: Improving Statistical Presentations and Posters

CC - Ballroom B Monday, July 30, 8:30 a.m.-10:20 a.m. Session 80: Statistical Machine Learning and Its Applications in

Bioinformatics Tuesday, July 31, 8:30 a.m.-10:20 a.m. CC - Ballroom B

CC - Ballroom B Wednesday, August 1, 8:30 a.m.-10:20 a.m. Session 353: How Scientists Can Work Effectively with the Media

Late-Breaking Sessions

Two additional sessions for invited Late-Breaking Sessions were approved to cover important topics emerging close in time to JSM. These are exciting additions to the JSM program, most of which is organized well in advance.

Monday, July 30, 2:00 p.m.-3:50 p.m. CC - Ballroom B

Session 171: Statistical Analysis of an Archeological Find

CC - Ballroom B Wednesday, August 1, 2:00 p.m.-3:50 p.m. Session 443: War and Death in Iraq

Business and Committee Meetings

All meetings are open unless shown as "closed" or "by invitation only." Section business meetings provide the opportunity to give suggestions on Section business, and members are urged to attend.

Opening Mixer CC - Ballrooms C-J

Don't miss your chance to get JSM 2007 off to a great start and enjoy refreshments with your colleagues. Attend the Opening Mixer Sunday, July 29, from 8:00 p.m. to 10:30 p.m.

Student Mixer GA - Venezia Garden Salon

Student registrants can enjoy refreshments, meet their peers, and make plans for local events and outings at the Student Mixer, Monday, July 30, from 6:00 p.m. to 7:30 p.m. The mixer is sponsored by the ASA Committee on Membership Retention and Recruitment, and a number of door prizes will be given.

Society Business Meetings

You are encouraged to attend your society business meetings, if held during JSM. This is your chance to give input to officers and other members of your society.

American Statistical Association

Sunday, July 29, 6:00 p.m.-7:30 p.m. CC - 251 D

Statistical Society of Canada Reception

Monday, July 30, 5:00 p.m.-7:00 p.m. GA - Fontainbleau

IMS Presidential Address Reception

Monday, July 30, 9:30 p.m.-11:00 p.m. CC - Ballroom A

IMS Business Meeting

Tuesday, July 31, 12:30 p.m.-1:30 p.m. CC - 250 A

International Biometric Society, ENAR Business Meeting

Tuesday, July 31, 5:30 p.m.-6:30 p.m. CC - 250 A

IMS New Member and Student Reception

Tuesday, July 31, 5:30 p.m.-7:00 p.m. GA - Audubon



Recycling Badge Holders

Please place JSM badges and badge holders that you will not reuse in a designated bin in the registration area.

2007 JSM Proceedings

Instructions for JSM 2007 presenters are available at *www. amstat.org/meetings/jsm/2007*; click the "Program" tab and select "Proceedings." The submission site will open August 1, 2007.

JSM 2008

The 2008 Joint Statistical Meetings will be held in Denver, Colorado, August 3–7, at the Denver Convention Center. Preliminary information about JSM 2008 can be found at Booth #107 in the exhibit hall. The complete listing of the 2008 Program Committee and instructions for submitting contributed papers is at www.amstat.org/meetings/jsm/2008.

If You Are Not a Member...

Information about the ASA, ENAR, WNAR, IMS, and SSC is available at the society booths located in the registration area and exhibit hall of the Salt Palace Convention Center. Each society provides a variety of publications and activities, and student membership is offered at substantially reduced rates.

If you are not a member of the ASA, join now and receive a discount on your first year. Join at the ASA Membership Booth in the registration area by Thursday, August 2, at 10:00 a.m. to receive this special JSM discount. The discount is valid for regular membership only. Ask about other memberships for students, postgraduates, retirees, and developing country residents.

Registration

Everyone attending JSM, including participants in the program, is required to register. Materials for those who registered in advance are available at the JSM Registration Desk, located on the lower level, South Foyer, of the Salt Palace Convention Center. At the Registration Desk, you also may add Continuing Education courses, the Career Placement Service, tours, guest badges, luncheons, and roundtables. Hours of operation:

Saturday, July 28	7:00 a.m6:00 p.m.
Sunday, July 29	7:00 a.m8:30 p.m.
Monday, July 30	7:30 a.m6:00 p.m.
Tuesday, July 31	7:30 a.m.–4:30 p.m.
Wednesday, August 1	7:30 a.m.–4:30 p.m.
Thursday, August 2	7:30 a.m.–10:30 a.m.

JSM registration includes the Program Book and Abstract Book or CD-ROM; access to EXPO 2007; and admission to the Sunday night Opening Mixer, the Monday evening Student Mixer (students only), and the Informal Dance Party on Tuesday evening.

If you did not purchase speaker with lunch or roundtable tickets with your advance registration, ask at the JSM Registration Desk for availability. Limited seating is still available for some luncheons and roundtables. Tickets will be sold until 2 p.m. on the day prior to the event. NOTE: No onsite kosher or heart healthy meal tickets are available.

ASA Continuing Education Courses

Courses will be held in rooms on Level 1 of the Salt Palace Convention Center. For room assignments, review the general program or visit the Special Assistance Desk in the South Foyer of the Salt Palace Convention Center. To register onsite for a course, visit the JSM Registration Desk, also located in the South Foyer. Availability may be limited, and text books are not available.

Speaker Work Rooms

CC - 252 A&B

The speaker work rooms are available for all presenters. There will be practice equipment available consisting of an overhead projector and screen and a data projector and screen. To accommodate more than 3,200 presenters, each speaker will be **limited to 10 minutes to test the equipment**. Rehearse your verbal presentation in your hotel room to ensure everyone has a chance to test the equipment.

Presenters using laptops are encouraged to report to the speaker work room for training on how to connect to the data projector. Audiovisual technicians will be available to assist with questions or problems.

Hours of operation:

Saturday, July 28	7:00 a.m6:00 p.m.
Sunday, July 29	7:00 a.m6:00 p.m.
Monday, July 30	7:00 a.m6:00 p.m.
Tuesday, July 31	7:00 a.m6:00 p.m.
Wednesday, August 1	7:00 a.m6:00 p.m.
Thursday, August 2	7:00 a.m.–10:30 a.m.

Do You Need a Break?



Have a cup of coffee courtesy of GfK. Coffee will be available outside technical sessions rooms on all convention center levels Monday between 10:15 a.m. and 10:45 a.m. Enjoy a refreshing cup of coffee between your morning sessions.

Thank you GfK!

Career Placement Service

CC - Exhibit Hall C

Hours of operation:

Saturday, July 28 (job posting and résumé submission only)	9:00 a.m.–5:00 p.m.
Sunday, July 29	1:00 p.m6:00 p.m.
Monday, July 30	8:00 a.m6:00 p.m.
Tuesday, July 31	8:00 a.m6:00 p.m.
Wednesday, August 1 (onsite registration closes at noon)	8:00 a.m.–4:30 p.m.

EXPO 2007

CC - Exhibit Hall D

Visit publishers, software companies, and recruiters, and see state-of-the-art products designed for the statistical community. Also, stop by the **ASA Booth**, #101, open during the show hours listed below.

Exhibitor Move In and Out

Saturday, July 28 (move in only)	8:00 a.m5:00 p.m.
Sunday, July 29 (move in only)	8:00 a.m.–12:00 p.m.
Wednesday, August 1 (move out only)	2:00 p.m8:00 p.m.

Show Hours

Sunday, July 29	1:00 p.m6:00 p.m.
Monday, July 30	9:00 a.m6:00 p.m.
Tuesday, July 31	9:00 a.m6:00 p.m.
Wednesday, August 1	9:00 a.m2:00 p.m.

Cyber Center

CC – Level 1, South Foyer

There are 20 terminals with internet access and three printers available in the Cyber Center for registered JSM attendees. Hours of operation:

Saturday, July 28	7:00 a.m.–7:00 p.m.
Sunday, July 29	7:00 a.m.–10:30 p.m.
Monday, July 30	7:00 a.m.–11:00 p.m.
Tuesday, July 31	7:00 a.m.–11:00 p.m.
Wednesday, August 1	7:00 a.m9:00 p.m.
Thursday, August 2	7:00 a.m10:30 a.m.

Wireless Internet Access

The Salt Palace Convention Center has wireless internet access throughout the building for \$15 per day.

ASA Marketplace

CC - Level 1, South Foyer

The ASA Marketplace is the place for JSM and ASA souvenirs. Purchase your official JSM 2007 T-shirt, new shirt designs, great new gifts, and clearance items. Hours of operation:

Saturday, July 28	12:00 p.m5:00 p.m.
Sunday, July 29	9:00 a.m.–5:00 p.m.
Monday, July 30	9:00 a.m.–5:00 p.m.
Tuesday, July 31	9:00 a.m5:00 p.m.
Wednesday, August 1	9:00 a.m5:00 p.m.
Thursday, August 2	8:00 a.m10:30 a.m.

ASA Membership/ Special Assistance Desk

CC – Level 1, South Foyer

Information about Salt Lake City activities, restaurants, attractions, and organized tours, as well as a local map, is available at the Special Assistance Desk. Hours of operation:

Saturday, July 28	7:00 a.m.–6:00 p.m.
Sunday, July 29	7:00 a.m.–8:30 p.m.
Monday, July 30	7:30 a.m.–6:00 p.m.
Tuesday, July 31	7:30 a.m.–4:30 p.m.
Wednesday, August 1	7:30 a.m.–4:30 p.m.
Thursday, August 2	7:30 a.m.–10:30 a.m.

Salt Lake City Visitors Information Center CC – Level 1

The Salt Lake City Visitors Information Center is operated by the Salt Palace Convention Bureau and provides extensive information and referrals for restaurants, tours, and sightseeing, along with up-to-date maps and travel information. The center is located in the main lobby area on Level 2 of the convention center. Hours of operation:

Saturday, July 28	9:00 a.m.–5:00 p.m.
Sunday, July 29	9:00 a.m.–5:00 p.m.
Monday, July 30	8:00 a.m6:00 p.m.
Tuesday, July 31	8:00 a.m6:00 p.m.
Wednesday, August 1	8:00 a.m6:00 p.m.
Thursday, August 2	8:00 a.m.–6:00 p.m.



President's Invited Address Monday, July 30, 4:00 p.m.

"Regularization Methods in Statistical Model-Building: Statisticians, Computer Scientists, Classification, and Machine Learning"

Grace Wahba is the I. J. Schoenberg-Hilldale Professor of Statistics at the University of Wisconsin-Madison as well as a member of the Computer Sciences Department and Department of Biostatistics and Medical Informatics. She is a member of the National Academy of Sciences and American Academy of Arts and Sciences. She also is a Fellow of the IMS, ASA, and American Association for the Advancement of Science. Since the early 70s, beginning with smoothing splines, she has been interested in regularization methods for nonparametric statistical model building. Her recent research involves analysis of datasets where only noisy, incomplete dissimilarity information is available and looking for important patterns or clusters of interacting variables.

IMS Presidential Address Monday, July 30, 8:00 p.m. "Open Access to Professional Information"

Jim Pitman is IMS president and professor of statistics and mathematics at the University of California, Berkeley. He has worked toward improving the quality and quantity of open-access content in the mathematical sciences by promoting and launching open-access journals for expository and survey material and developing open-source bibliographic software to encourage distributed alternatives to centrally controlled indexing systems. Recent projects include launching open-access expository journals *Probability Surveys* and *Statistics Surveys* and constructing open systems for navigation of online resources in the mathematical sciences.





Deming Lecture Tuesday, July 31, 4:00 p.m. "A Modern Framework for Enterprise Excellence"

Douglas C. Montgomery is professor of industrial and management systems engineering at Arizona State University. He is a Fellow of the American Society for Quality Control, ASA, and Institute of Industrial Engineers. He is a member of the honorary societies Phi Kappa Phi, Sigma Xi, Mu Sigma Rho, and Alpha Pi Mu. Montgomery's professional interests include design of experiments, time series analysis and forecasting, and applications of linear models. He also is interested in operations research and statistical methods applied to modeling and analyzing manufacturing systems.

Wald Lecture I Tuesday, July 31, 4:00 p.m. "A Review of Some Surprises Encountered in Bayesian Model Selection"

> Wald Lecture II Wednesday, August 1, 10:30 a.m. "Model Selection: Approximations and Multiplicities"

Wald Lecture III Thursday, August 2, 10:30 a.m. "Working with Inexact Models: The World of Computer Modeling"



Jim Berger earned his PhD from Cornell University in 1974. He has served as president of the IMS, chair of the ASA's Section on Bayesian Statistical Science, and president of the International Society for Bayesian Analysis. He also was awarded Guggenheim and Sloan Fellowships, the COPSS Presidents' Award, and the Sigma Xi Research Award. Berger's research has been in primarily Bayesian statistics, foundations of statistics, statistical decision theory, simulation, and model selection.



ASA Presidential Address Tuesday, July 31, 8:00 p.m.

"Statistics: Harnessing the Power of Information"

Mary Ellen Bock is professor and head of the Department of Statistics at Purdue University in West Lafayette, Indiana. She is Fellow and president of the ASA and Fellow of the American Association for the Advancement of Science and IMS. Her areas of statistical research include applications in computational biology, bioinformatics, econometrics, and mathematical statistics.

COPSS Fisher Lecture Wednesday, August 1, 4:00 p.m. "R. A. Fisher, Randomization, and Current Practice in Multicenter Clinical Trials"

Marvin Zelen, dubbed "Father of Biostatistics," is professor of statistical science at Harvard School of Public Health. He is recognized as one of the pioneers of using Kronecker products and orthogonal projection operators in experimental design problems involving factorial and unbalanced designs. He also is known for his "play the winner rule" in randomized clinical trials, and his methods are still used in designing cutting-edge, multicenter clinical trials. Zelen is a Fellow of the ASA, American Association for the Advancement of Science, IMS, and International Statistical Institute and an elected member of the International Statistical Institute and American Academy of Arts and Sciences.



IMS Special Lectures



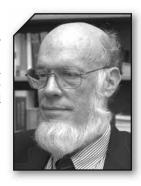
Medallion Lecture I Sunday, July 29, 2:00 p.m.

"Modeling Genes: Statistical Challenges in Modern Genetics"

Peter Donnelly is professor of statistical science at the University of Oxford. He is a Fellow of the IMS and Royal Statistical Society, a member of the International Statistical Institute, and an Honorary Fellow of the Institute of Actuaries. He has been awarded the Mitchell Prize of the ASA and International Society for Bayesian Analysis and the Guy Medal in Silver of the Royal Statistical Society. Donnelly's early work was in applied probability, particularly stochastic models in genetics, but, for some years, his research has focused on genetics. He played a major role in the HapMap project, an international collaboration that followed the Human Genome Project in studying genetic diversity in worldwide populations. He currently chairs a collaboration of 25 UK research groups studying 12 common human diseases.

Rietz Lecture Sunday, July 29, 4:00 p.m. "Statistical Problems of Gene Mapping"

For the last 10 years, **David Siegmund** has concentrated on statistical aspects of gene mapping. As a statistician also interested in probability theory, his research concentrates on statistical problems that arise in scientific applications and require novel probability theory for their resolution. Before 1985, his research concentrated on sequential analysis, with a primary focus on the design and analysis of sequential clinical trials.





Medallion Lecture II Monday, July 30, 10:30 a.m. "Understanding Ecological Communities"

Claudia Neuhauser is HHMI professor and head of the Department of Ecology, Evolution, and Behavior at the University of Minnesota, Twin Cities. Her work is at the interface of ecology and evolution, as she investigates effects of spatial structure on community dynamics, in particular, the effect of competition on the spatial structure of competitors and the effect of symbionts on the spatial distribution of their hosts. In addition, her research in population genetics has resulted in the development of statistical tools for random samples of genes. She is currently director of an NSF-funded grant on nonequilibrium dynamics across space and time, which provides interdisciplinary education and training to graduate students from ecology, geology, civil engineering, and computer science.

Medallion Lecture III Tuesday, July 31, 8:30 a.m. "Functional Regression Analysis: Models, Methods, and Applications"

Hans-Georg Müller is professor of statistics at the University of California, Davis. Among his current research interests are the theory and methodology of high-dimensional and functional data analysis and applications in biodemography, genomics, and finance. He is a member of the International Statistical Institute and a Fellow of the ASA, IMS, and American Association for the Advancement of Science.





Medallion Lecture IV Wednesday, August 1, 8:30 a.m. "Quantile Regression under Censorship"

Xuming He is professor of statistics at the University of Illinois, Urbana-Champaign. He is a Fellow of the ASA and IMS. His primary research interests in statistics include robust methods, semi/nonparametric modeling, large-sample theory, quantile regression, dimension reduction, and resampling methods. His interdisciplinary research spans genomics, epidemiology, educational testing, dysphagia research, and atmospheric studies. He is currently the IMS Bulletin editor and serves on the editorial boards of Annals of Statistics and JASA.

Medallion Lecture V Wednesday, August 1, 2:00 p.m. "Joint Modeling of Longitudinal and Survival Data"

Jane-Ling Wang is professor of statistics and graduate adviser of the biostatistics program at the University of California, Davis. She has served on various committees for the ASA, International Chinese Statistical Association. IMS, and the Bernoulli Society. She is currently president-elect of the International Chinese Statistical Association. Wang's research areas include aging and longevity, biodemography, dimension reduction methods, functional and longitudinal data analysis, joint modeling of longitudinal and survival data, and survival analysis. She is a Fellow of the ASA and IMS and an Elected Member of the International Statistical Institute.



Local Area Committee

Scott Grimshaw, Chair Brigham Young University

Gretchen Moisen

U.S. Forest Service

Gil Fellingham

Brigham Young University

Shane Reese

Brigham Young University

Advisory Committee on Continuing Education

Katherine T. Halvorsen, Chair Smith College

Eileen C. King, Vice Chair Procter & Gamble

Gordon J. Johnston SAS Institute, Inc.

Nandini Kannan

The University of Texas at San Antonio

Ronald McRoberts

North Central Research Station

Andy Mauromoustakos University of Arkansas

Leonard Oppenheimer

Johnson & Johnson Pharmaceutical R&D

Xiaoming Sheng University of Utah

Charles Yun Tan

Merck & Co., Inc.

Clyde Tucker Bureau of Labor Statistics

ASA Continuing Education

Rick Peterson

Education Programs Associate

ASA Meetings

Elaine L. Powell, CMP Assistant Director of Meetings

Kathleen Wert

Meetings Planner

Donna-Renee Arrington Meetings Planner

Kristen Campbell

Meetings Coordinator

American Statistical Association 732 North Washington Street Alexandria, VA 22314-1943 Email: jsm@amstat.org Web: www.amstat.org

2007 Program Committee



JSM 2007 Program Chair Allan Rossman California Polytechnic State University



International Biometric Society (ENAR) Christopher S. Coffey University of Alabama at Birmingham



International Biometric Society (WNAR) Weng Kee Wong University of Los Angeles



Institute of Mathematical Statistics (Invited) Mark Low The Wharton School University of Pennsylvania



Institute of Mathematical Statistics (Invited) Tony Cai The Wharton School University of Pennsylvania



Council of Chapters, ASA V. A. Samaranayake University of Missouri-Rolla



No Photo

Available

Committee on Committees, ASA U.S. Census Bureau



General Methodology, ASA Indiana University of Pennsylvania



Purdue University

General Methodology, ASA Elizabeth H. Slate Medical University of South Carolina



Simon Fraser University

Institute of Mathematical Statistics Statistical Society of Canada (SSC)

Invited and Contributed Posters Dongseok Choi Oregon Health & Science University



Section on Bayesian Statistics, Merlise A. Clyde **Duke University**



Biometrics Section, ASA Runze Li The Pennsylvania State University



Biopharmaceutical Section, ASA Amit Bhattacharyya GlaxoSmithKline



Business & Economic Statistics Section, ASA David A. Dickey North Carolina State University



Statistical Computing Section, ASA Edward J. Wegman George Mason University



Section on Statistical Consulting, Phillip L. Chapman Colorado State University



Section on Statistics in Defense and National Security, ASA Lara S. Schmidt **RAND Corporation**



Section on Statistical Education, Patti Collings Brigham Young University



Section on Statistics and the Environment, ASA Peter Guttorp University of Washington



Section on Epidemiology, ASA Jennifer Clark Nelson **Group Health Cooperative**



Section on Government Statistics, Roberta L. Sangster **Bureau of Labor Statistics**



Section on Statistical Graphics, Simon Urbanek AT&T Labs - Research



Section on Health Policy Statistics, Bonnie Ghosh-Dastidar **RAND Corporation**



Section on Statistics in Marketing, Peter Boatwright Carnegie Mellon University



Section on Nonparametric Statistics, ASA Soumendra N. Lahiri Iowa State University



Section on Physical & Engineering Section on Quality & Productivity, Sciences, ASA Winson Taam Boeina



William R. Myers Procter & Gamble



Section on Risk Analysis, ASA Duane Steffey Exponent, Inc.



Social Statistics Section, ASA Allen I Schirm Mathematica Policy Research, Inc.



Section on Statistics in Sports, ASA Mark E. Glickman Edith Nourse Rogers Memorial Hospital



Section on Survey Research Methods ASA Steven G. Heeringa University of Michigan Institute for Social Research



Section on Teaching Statistics in the Health Sciences, ASA Patrick Tarwater The University of Texas Health Science Center at Houston

American Statistical Association

President

Mary Ellen Bock

President-Elect Peter Lachenbruch

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Web: www.amstat.org

International Biometric Society—Eastern North American Region

January – December 2007

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2008 Spring Meeting **Avital Cnann**

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Business Office

Eastern North American Region International Biometric Society 12100 Sunset Hills Road, Suite 130

Reston, VA 20190 Phone: (703) 437-4377 Fax: (703) 435-4390 Email: enar@enar.org Web: www.enar.org

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WNAR Membership Services Cancer Research and Biostatistics 1730 Minor Avenue, Suite 1900 Seattle, WA 98101-1468

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Statistical Society of Canada

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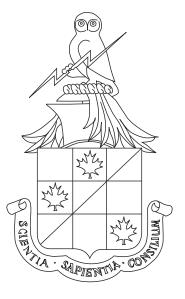
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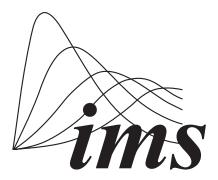
Business Office

Statistical Society of Canada 577 King Edward Avenue Ottawa, ON, Canada K1N 6N5

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Institute of Mathematical Statistics



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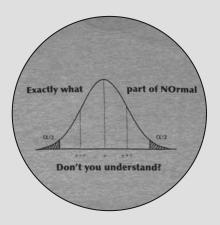
Fax: (216) 295-5661 Email: ims@imstat.org Web: www.imstat.org

Continuing Education at a Glance

TIME	COURSE	INSTRUCTOR(S)	COURSE TITLE
Saturday, July 28			
8:30 a.m.–5:00 p.m.	CE_01C	David Spiegelhalter	Bayesian Modeling in Practice
8:30 a.m.–5:00 p.m.	CE_02C	Garrett Fitzmaurice	Applied Longitudinal Analysis %
8:30 a.m5:00 p.m.	CE_03C	Dallas E. Johnson	Design and Analysis of Crossover Experiments
8:30 a.m5:00 p.m.	CE_04C	Paul Biemer	Latent Class Analysis of Survey Error
8:30 a.m.–5:00 p.m.	CE_05C	Richard Cook/Jerry Lawless	Statistical Methods for the Analysis of Recurrent Events
8:30 a.m.–5:00 p.m.	CE_06C	Kimberly Crimin/Thomas Vidmar	Nonclinical Statistics for Drug Discovery
8:30 a.m.–5:00 p.m.	CE_07C	Antony Unwin/Heike Hofmann	Graphics of Large Datasets
Sunday, July 29			
8:30 a.m.–5:00 p.m.	CE_01C	David Spiegelhalter	Bayesian Modeling in Practice
8:00 a.m.–12:00 p.m.	CE_08C	Naitee Ting/James MacDougall	Dose-Finding in Drug Development
8:30 a.m.–5:00 p.m.	CE_09C	Oliver Schabenberger	Generalized Linear Mixed Models: Theory and Applications
8:30 a.m.–5:00 p.m.	CE_10C	Margaret S. Pepe/Holly Janes/ Todd Alonzo	Statistical Evaluation of Medical Tests and Biomarkers for Classification
8:30 a.m5:00 p.m.	CE_11C	Jay Breidt/Jean Opsomer	Modeling and Data Analysis for Complex Surveys
8:30 a.m.–5:00 p.m.	CE_12C	Jerome Sacks/William J. Welch	A Practical Guide for the Design and Analysis of Virtual (Computer Model) Experiments
8:30 a.m.–5:00 p.m.	CE_13C	Thomas Herzog/Fritz Scheuren/ William Winkler	Data Quality and Record Linkage Techniques
1:00 p.m.–5:00 p.m.	CE_14C	Christopher S. Coffey/Brenda Gaydos/José Pinheiro	Adaptive Dose-Response Studies
Monday, July 30			
8:00 a.m.–12:00 p.m.	CE_15C	Charles S. Davis	Categorical Data Analysis
8:30 a.m5:00 p.m.	CE_16C	Peter H. Westfall	Multiple Comparisons and Multiple Tests
8:30 a.m.–5:00 p.m.	CE_17C	Christy Chuang-Stein/Alex Dmitrienko/Geert Molenberghs	Analysis of Clinical Trials: Theory and Applications
8:30 a.m5:00 p.m.	CE_18C	Howard S. Burkom/David Banks	Temporal Alerting Algorithms for Biosurveillance
8:30 a.m5:00 p.m.	CE_19C	Peter F. Thall	Practical Bayesian Clinical Trial Design
8:30 a.m5:00 p.m.	CE_20C	Wei-Yin Loh	Classification and Regression Trees
1:00 p.m5:00 p.m.	CE_21C	Ingram Olkin	Meta-analysis: Statistical Methods for Combining the Results of Independent Studies
Tuesday, July 31			
8:00 a.m.–12:00 p.m.	CE_22C	Tamraparni Dasu/Simon Urbanek	Harnessing Data Streams through Statistical Computing
8:30 a.m.–5:00 p.m.	CE_23C	Michael Proschan	Statistical Monitoring of Clinical Trials: a Unified Approach
8:30 a.m.–5:00 p.m.	CE_24C	Michael J. Daniels/Joe Hogan	Dropout in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity
8:30 a.m.–5:00 p.m.	CE_25C	Kenneth Lange/Janet Sinsheimer/ Eric Sobel	Statistical Genetics
8:30 a.m5:00 p.m.	CE_26C	Marina Vanucci/Brani Vidakovic	Wavelets and Statistical Applications
8:30 a.m.–5:00 p.m.	CE_27C	Danyu Lin	Analysis of Censored Data
1:00 p.m5:00 p.m.	CE_28C	Tim Hesterberg	Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics

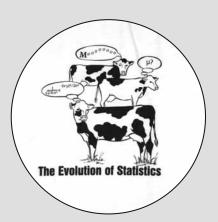












American Statistical Association

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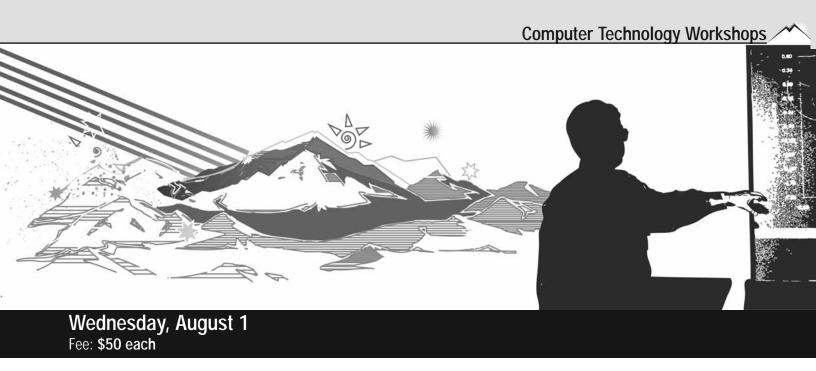
LOCATED IN THE MAIN REGISTRATION AREA

Saturday, July 28 noon–5:00 p.m.

Sunday – Wednesday July 29–August 1 9:00 a.m.–5:00 p.m.

Thursday, August 2 8:00 a.m.–10:30 a.m.

Mugs, hats, ASA apparel, children's shirts, JSM shirts, pens, and more!



Computer Technology Workshops at a Glance

TIME	COURSE	INSTRUCTOR(S)	TITLE
8:00 a.m.–9:45 a.m.	CE_29T	Mikhail Golovnya	Introduction to CART: Data Mining with Decision Trees
8:00 a.m9:45 a.m.	CE_30T	Angela Pitts/ G. Gordon Brown	New Features for Clustered and Survey Data Analysis in SUDAAN® Release 9.0.3
8:00 a.m.–9:45 a.m.	CE_31T	Robert Cohen	Modern Regression Analysis in SAS Software
8:00 a.m9:45 a.m.	CE_32T	Michael Borenstein/ Hannah Rothstein	Power Analysis: a Simple and Effective Approach
8:00 a.m9:45 a.m.	CE_33T	Cyrus R. Mehta	East® 5: a Comprehensive Package for Adaptive and Group Sequential Design, Interim Monitoring, and Simulation
10:00 a.m11:45 a.m.	CE_34T	Mikhail Golovnya	Introduction to MARS: Predictive Modeling with Nonlinear Automated Regression Tools
10:00 a.m.–11:45 a.m.	CE_35T	Shawn Harahush	From Software to Solutions in Statistics and Risk Analysis
10:00 a.m.–11:45 a.m.	CE_36T	Sharad Prabhu/ José G. Ramírez	Design and Analysis of Split-Plot Experiments Using the SAS ADX Interface
10:00 a.m11:45 a.m.	CE_37T	Michael Borenstein/ Hannah Rothstein	Meta-analysis: Concepts and Applications
10:00 a.m.–11:45 a.m.	CE_38T	Weicai Zhong	Generalized Linear Modeling in SPSS
1:00 p.m.–2:45 p.m.	CE_39T	Mikhail Golovnya	Advances in Data Mining: Jerome Friedman's TreeNet/MART and Leo Breiman's Random Forests
1:00 p.m.–2:45 p.m.	CE_40T	Colin (Lin) Chen	Quantile Regression Using the SAS QUANTREG Procedure

Seeking a CAREER in STATISTICS?

Salt Lake City, UT July 29-August 1



Are you nearing graduation and wondering about entry-level jobs? Are you an experienced statistics professional interested in career information?

Register for the JSM Career Placement Service!

What can the CAREER PLACEMENT SERVICE do for YOU?

Each year, hundreds of companies, universities, recruiters, and government agencies search for applicants using the JSM Career Placement Service. The JSM Career Placement Service provides the best opportunity for qualified applicants to meet employers, establish valuable contacts, and learn about organizations employing statisticians.

Career Placement Service BENEFITS

APPLICANT READING AREA—for applicants to review complete job descriptions and contact information for all registered employers.

VISIBILITY TO EMPLOYERS—applicants who register by July 12, 2007, will have their information and résumés included in the advance applicant access database, available to employers prior to the meeting. Employers often contact applicants in the database prior to JSM to schedule interviews.

COMPUTERIZED MESSAGE CENTER - allows applicants and employers to communicate throughout the meeting.

ONLINE ACCESS TO JOB POSTINGS—this year, included with ALL Career Placement Service registrations.

Register at the registration desk, and bring your résumé to Hall C!

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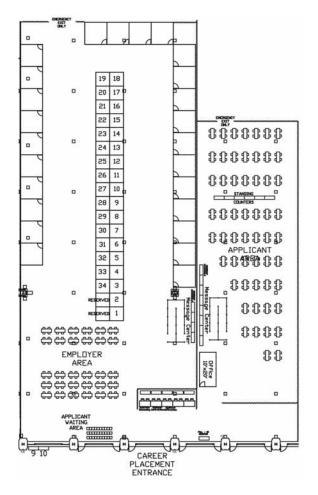
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Salt Palace Convention Center—Exhibit Hall C

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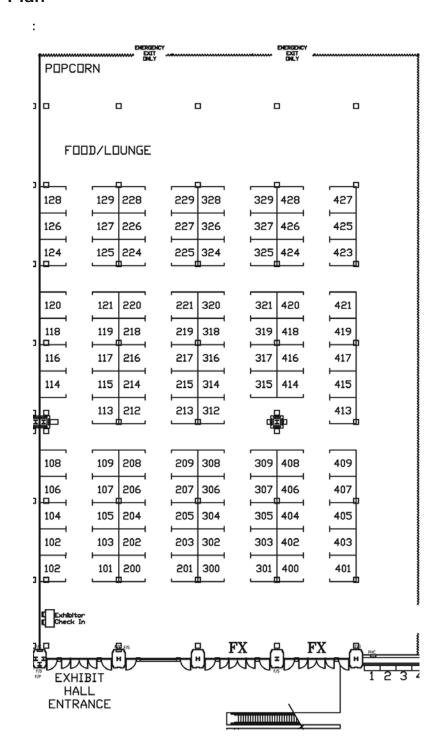
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Medicine

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EXPO 2007 Floor Plan



Exhibitors by Booth Number

Booth Number	Exhibitor Name
100	Institute of Mathematical Statistics
101, 103, 105	American Statistical Association
102	Statistical Society of Canada
104	ASA-SIAM Series
106	SIAM: Society for Industrial and Applied Mathematics
107	JSM 2008 Denver
108	Bureau of Labor Statistics
109	Bureau of Economic Analysis
113	StatPoint, Inc.
114, 116	Minitab Inc.
115	The Cambridge Group LTD
117, 119, 121, 216, 218, 220	CRC Press-Taylor & Francis Group
118, 120	Duxbury, Thomson
124	Palisade Corporation
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126, 128	StatSoft, Inc.
127, 129	Cambridge University Press
200, 202	JMP, a business unit of SAS
201, 203, 205	SAS Application
204, 206, 208	SAS Publishing
207, 209	SAS Institute, Education Division
212	Capital One
213, 312	RTI International
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215, 217	Oxford University Press
219	MacKichan Software
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224	Salford Systems
225	SYSTAT Software, Inc.
226, 228	Elsevier
227, 229	XLSolutions Corporation
300, 302	W.H. Freeman & Company
301	NCSS
303	Eli Lilly and Company
304	U.S. Department of Education/IES

Booth Number	Exhibitor Name
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307, 309, 406, 408	Springer
307	Birkhäuser
314, 316	Cytel, Inc.
315, 317, 319	John Wiley & Sons
318	statistics.com
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402	Wolfram Research
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405, 407	REvolution Computing
409	National Center for Health Statistics
413	CDC/ATSDR
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415	Internal Revenue Service, Statistics of Income Division
416	ASG, Inc.
417, 419	Johnson & Johnson Family of Companies
418, 420	Insightful Corporation
421	MedFocus LLC
423	Allergan, Inc.
424	Fforde Management
425, 427	National Security Agency
426	Space-Time Research
428	INFORMS

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ASG, Inc.

416

agement, analytical research, setting standards for statistics, and promoting statistical education.

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325

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ASA-SIAM Series

104

Birkhäuser

307

Alexandria, Virginia

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400

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Blackwell Publishing

321

Hoboken, New Jersey

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Bureau of Economic Analysis

109

Baltimore, Maryland

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American Statistical Association 101, 103, 105

108

Alexandria, Virginia

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Bureau of Labor Statistics

Washington, DC

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CDC/ATSDR

413

Atlanta, Georgia

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Portage, Michigan

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Cambridge University Press

127, 129

New York, New York

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■ Elsevier

226, 228

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New York, New York

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328

Charleston, South Carolina

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INFORMS

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Hanover, Maryland

The Institute for Operations Research and the Management Sciences (INFORMS) is a professional association with 10,000

members that publishes 12 journals used extensively in business and engineering schools. Have a membership question? Want a look at INFORMS' newest publications? Need advice on marketing the profession? Stop by the INFORMS booth to talk with the staff. For details, visit *www.informs.org*.

■ Insightful Corporation

418, 420

Seattle, Washington

Insightful Corporation is a provider of predictive analytics and reporting solutions that gives companies the knowledge to act™. Insightful products S-PLUS®, Insightful Miner™, S-PLUS® Server, and InFact® allow customers to perform sophisticated statistical data analysis and data mining and create high-quality graphics. For more information, visit www.insightful.com.

Institute of Mathematical Statistics 100

Beachwood, Ohio

The IMS is an international professional and scholarly society devoted to the development, dissemination, and application of statistics and probability. The IMS publishes five journals: Annals of Statistics, Annals of Applied Statistics, Annals of Probability, Annals of Applied Probability, and Statistics Science. IMS membership is free to students.



Bringing the ASA to Salt Lake City

Visit the **ASA BOOTH**, **#101**, at JSM and learn about the many programs available to you. Within the ASA Booth, you can hear about:

SECTIONS—Get information about 22 Sections that encompass several special interests in statistics

PUBLICATIONS—Flip through the ASA's journals and magazines or pick up brochures about various ASA programs

MEMBERSHIP—Ask an ASA staff member questions about the Association or member benefits

Discover the benefits of membership

Internal Revenue Service

Washington, DC

The Statistics of Income (SOI) Division of the IRS produces income data compiled from tax and information returns filed with the IRS. SOI data include financial information about individuals, business taxpayers, tax-exempt organizations, and more. Data are available through publications, electronic databases, Tax Stats (www.irs.gov/taxstats), and SOI's Statistical Information Services, (202) 874-0410.

JMP, a business unit of SAS

200, 202

415

Cary, North Carolina

JMP, a division of SAS, develops JMP° software, which brings comprehensive data analysis to the desktop, empowering users to interactively explore, visualize, and understand their data. Visit us at *www.jmp.com*.

JSM 2008 Denver

107

Alexandria, Virginia

Denver, Colorado, host of JSM 2008, welcomes you. Please stop by Booth #107 for visitor information and answers to your questions.

■ John Wiley & Sons

315, 317, 319

Hoboken, New Jersey

Wiley-Blackwell is a global publisher of print and electronic statistical information, including International Statistical Reviews: *Journal of the Royal Statistical Society Series A (Statistics in Society), B (Statistical Methodology)*, and *C (Applied Statistics)*; *Biometrics*; *Statistics in Medicine*; *Scandinavian Journal of Statistics*; *Statistics Neerlandica*; *Biometrical Journal*; and *Statistical Analysis and Data Mining*. Visit us online at *www.wiley.com/statistics*.

■ Johnson & Johnson Family of Companies

417, 419

125

New Brunswick, New Jersey

Johnson & Johnson, through its operating companies, is the world's most comprehensive and broadly based manufacturer of health-care products and a provider of related services for the consumer, pharmaceutical, and medical devices and diagnostics markets.

Kforce Clinical Research Staffing

Tampa, Florida

Kforce Clinical Research provides a full range of outsourcing alternatives and traditional staffing services for the biopharmaceutical industries. Established in 1988, Kforce Clinical

Research is a leader in hybrid solutions. Our expertise includes clinical trial monitoring and management, drug safety and surveillance, clinical data management, biostatistics, data entry, and clinical application development.

MacKichan Software

219

Poulsbo, Washington

Scientific WorkPlace 5.5 simplifies writing, sharing, and doing mathematics. A click of a button allows you to typeset in LaTeX. The integrated computer algebra system lets you solve and plot equations; animate 2D and 3D plots; rotate, move, and fly through 3D plots; create 3D implicit plots; and more.

MedFocus LLC

421

Chicago, Illinois

MedFocus offers clinical and scientific research contract outsourcing and staffing to the pharmaceutical, biotechnology, and medical device industries. MedFocus allows you to maintain consistency with high-quality consulting while managing variability in clinical work demand without headcount issues. For more information, visit www.medfocus.com.

★ Minitab Inc.

114, 116

State College, Pennsylvania

Minitab 15° is the leading software for statistics education worldwide. It is accurate, reliable, and easy to use, with powerful graphics abilities. Minitab integrates into curriculums seamlessly and affordably and is used at more than 4,000 colleges and universities. Visit www.minitab.com/minitab for a free trial version.

NCSS 301

Kaysville, Utah

We will be displaying our new NCSS 2007 data/statistical analysis software; PASS 2005, our popular power analysis and sample size software; and GESS 2006, our new microarray analysis software. Stop by and pick up a free trial CD while they last.

National Center for Health Statistics

Hyattsville, Maryland

The NCHS exhibit will showcase the various NCHS programmatic areas, with an emphasis on statistical research and methodology. The exhibit will allow attendees to view and acquire a host of publications, electronic products, and other promotional products.

409

■ National Security Agency

425, 427 Prosoft Software, Inc.

329

Ft. Meade, Maryland

The Information Assurance mission provides the solutions, products, and services—and conducts defensive information operations—to achieve information assurance for the information infrastructures critical to U.S. national security interests. The foreign signals intelligence, or SIGINT, mission allows for an effective, unified organization and control of all the foreign signals collection and processing activities of the United States.

■ Oxford University Press

215, 217

New York, New York

Oxford University Press is a leading international publisher of books and journals in statistics and math. Visit booths 215 and 217 to see our latest titles, enter our raffle to win \$100 worth of books, join our email list, and receive a 20% discount on all titles on display.

Palisade Corporation

124

327

Ithaca, New York

Palisade Corporation has been a leading provider of risk analysis, decision analysis, optimization, and data analysis software since 1984. Recently, Palisade released NeuralTools, a neural networks add-in for Microsoft Excel, and StatTools, a statistical analysis add-in for Microsoft Excel that replaces Excel's statistics functions with a robust and accurate set of statistical analysis procedures and routines.

Pfizer Global Research and Development

New London, Connecticut

Imagine a career that touches the lives of people everywhere. Imagine an opportunity to reach beyond your area of expertise to impact something greater than the bottom line. Imagine playing a key role in some of the most critical issues facing health care today. Relying on our scientific talent, a steady stream of breakthroughs ensures the best medicines for man and animals in years to come. This is your career at Pfizer: a career unlike any other.

Prentice Hall

401, 403

Upper Saddle River, New Jersey

Prentice Hall, a premier college textbook publisher, will display statistics textbooks ranging from the introductory level, such as Agresti/Franklin's Statistics: The Art and Science of Learning from Data and McClave/Sincich's Statistics 10/e, to more advanced and specialized course texts, such as Blair/Taylor's Biostatistics for the Health Sciences and Tanis/Hogg's A Brief Course in Mathematical Statistics.

King of Prussia, Pennsylvania

Prosoft Software, Inc., is a contract research organization with expertise in biostatistics, data management, project management, and medical writing. Our experience spans all areas of drug and medical device development, including preclinical and clinical phases I–IV in such areas as cardiovascular, dermatology, respiratory, allergy, immunology, CNS, and oncology.

REvolution Computing

405, 407

New Haven, Connecticut

REvolution Computing is the leading commercial provider of software and support for the R statistical and business intelligence tools (www.revolution-computing.com). REvolution's solution for computational statistics is fully supported and easy to use. It includes commercial features and automatic parallel processing. The REvolution solution for computational statistics renders R practical for mainstream, commercial, and regulated use. REvolution Computing truly is R Evolved!

■ RTI International

213, 312

Durham, North Carolina

With a staff of more than 2,600 people, RTI International is an independent, nonprofit organization that offers innovative research and technical solutions to governments and businesses worldwide in the areas of health, epidemiology, and pharmaceuticals; advanced technology; surveys and statistics; education and training; economic and social development; and the environment.

SAGE Publications

324

Thousand Oaks, California

SAGE Publications—an independent international publisher in the social sciences, technology, and medicine—provides journals, books, and electronic media of the highest caliber. Researchers, students, and professionals have relied on our innovative resources for more than 40 years. Please stop by our booth or visit us at www.sagepub.com.

SAS Application

201, 203, 205

Cary, North Carolina

SAS will exhibit its analytical software for statistics, data mining, econometrics, and statistical quality control. Please visit the SAS booth and learn about new directions in statistical graphics, as well as new downloadable software for Bayesian analysis.

SAS Institute, Education Division 207, 209

Cary, North Carolina

SAS Education offers a broad curriculum of SAS, JMP, and statistical courses to support our users. The division administers the SAS Global Certification Program, where users can earn globally recognized credentials for their knowledge. The Higher Education Consulting Program supports institutions of higher learning incorporate SAS into their curricula.

SAS Publishing

204, 206, 208

Cary, North Carolina

Visit the SAS Publishing booth to learn more about saving 20% on orders placed or mailed to us by August 31, new SAS product documentation titles, new SAS Press Series titles, and SAS® Learning Edition 4.1. SAS Publishing staff members are available to answer questions and assist you with your orders.

SIAM: Society for Industrial and **Applied Mathematics**

Philadelphia, Pennsylvania

Visit the SIAM booth to check out the titles in the ASA-SIAM Series on Statistics and Applied Probability, get recently published books and information, and see sample issues of SIAM's renowned journals. Membership applications also will be available. Don't forget to pick up a copy of SIAM News for the road.

SPSS, Inc.

306, 308

106

Chicago, Illinois

SPSS Inc. is a leading global provider of predictive analytics software and solutions. More than 250,000 public sector, academic, and commercial customers rely on SPSS to help increase revenue, reduce costs, and detect fraud. Founded in 1968, SPSS is headquartered in Chicago, Illinois. For additional information, please visit www.spss.com.

■ SYSTAT Software, Inc.

225

San Jose, California

SYSTAT is a high-value, integrated desktop statistics and graphics software package for scientists, engineers, and statisticians that provides the most extensive selection of reliable statistics and high-quality, interactive graphics, enabling users to analyze their data, make meaningful discoveries, and present their results attractively and efficiently.

Salford Systems

San Diego, California

Salford Systems develops advanced statistical and data mining software, including the CART® decision tree, MARS® automated regression, TreeNet® boosted decision trees, and Random Forests®. Salford Systems strives to make the best academic research easily usable by the practicing data analyst and recently won several distinguished international honors.

Smith Hanley

320

New York, New York

Our two divisions, permanent placement and contract staffing, offer targeted recruitment in statistics, biostatistics, SAS programming, data management, market research health outcomes, and epidemiology. Since 1980, we've provided clients and recruits dedicated service, experience, and insight into industry trends for positions at all levels. Visit www.smithhanley.com or www.smithhanley-consulting.com for more information.

Space-Time Research

426

Victoria, Australia

Space-Time Research provides intuitive, easy-to-use business intelligence and statistical solutions. SuperSTAR technology provides statistical, analytical, and multiformat visualization; simple ad hoc reporting; and geospatial analysis. SuperSTAR uses service-oriented architecture technology to deliver client-based and true web applications. Data management features individual confidentially and data security.

■ Springer

307, 309, 406, 408

New York, New York

Springer is one of the largest international publishers of scientific literature (4,000 new books per year and more than 1,200 journals). Springer's statistics book program is world-renowned and has produced many best-selling textbooks, monographs, and reference works. Notable publications include the Springer Series in Statistics, Statistics for Biology and Health, and Statistics and Computing.

Stat-Ease, Inc.

305

Minneapolis, Minnesota

Stat-Ease, Inc., produces two easy-to-use Windows programs for design of experiments (DOE), including Design-Ease® software for finding breakthrough factors and Design-Expert® software for optimization. The company also offers computer-intensive DOE workshops, including Experiment Design Made Easy, Response Surface Methods for Process Optimization, and Mixture Design for Optimal Formulations.

224 ■ StatPoint, Inc.

113

Herndon, Virginia

StatPoint Inc. develops the STATGRAPHICS® line of statistical analysis software products. Used for 25 years for data analysis by Fortune 1000 companies and small enterprises worldwide, STATGRAPHICS® Centurion XV.II is available in four languages. StatPoint products include STATGRAPHICS® Mobile, STATBEANS® Java Library, and STATGRAPHICS® MultiLingual® (coming this summer), providing immediate interchangeability of input and output languages.

StatSoft, Inc.

126, 128

Tulsa, Oklahoma

StatSoft, Inc., creator of STATISTICA, is one of the largest developers worldwide of enterprise-wide and single-user software for data analysis, data mining, and quality control. STATISTICA has received the highest rating in every comparative review of statistics software since its first release (1993)—a record unmatched in the industry.

Statistical Society of Canada

102

Ottawa, Ontario

The Statistical Society of Canada's mission is to encourage the development and use of statistics and probability in Canada. It is the Canadian equivalent of the American Statistical Association. The Statistical Society of Canada also offers two levels of accreditation, the Professional Statistician (P.Stat.) and the Associate Statistician (A.Stat.).

The Cambridge Group LTD

115

304

Westport, Connecticut

The Cambridge Group LTD focuses on careers in biostatistics, clinical data management, clinical systems, and SAS programming. Opportunities range from entry level through executive posts, both permanent and contract, in the pharmaceutical and biotechnology industries.

U.S. Department of Education/IES

Washington, DC

IES is the research arm of the U.S. Department of Education. Its mission is to provide rigorous evidence on which to ground education practice and policy. This mission is accomplished through its four centers: National Center for Education Statistics, National Center for Education Research, National Center for Education Evaluation and Regional Assistance, and National Center for Special Education Research. Information about research and evaluation activities, funding opportunities, and reports may be found at ies.ed.gov.

USDA, NASS

414

Washington, DC

The National Agricultural Statistics Service is a world leader in sampling, data collection, and estimation procedures for economic,

environmental, and agricultural surveys and censuses. The agency also creates a number of remote-sensing and geographic information system statistical products and conducts ongoing applied research on statistical methodology and estimation approaches. Plans are under way for the 2007 Census of Agriculture.

W.H. Freeman and Company

300, 302

New York. New York

W.H. Freeman and Company, publisher of high-quality textbooks and media, highlights current bestsellers, new titles, and the innovative learning management system, StatsPortal, in booths 300 and 302. Look for introductory best-selling books in the Moore series, as well as upper-level titles, and see a StatsPortal demo. Visit www.whfreeman.com/statsportal for more information.

Wolfram Research

402

326

Champaign, Illinois

Wolfram Research is the world's leading developer of computational software for science and technology, offering organization-wide computing solutions. Led by Mathematica, Wolfram's flagship product, the company's software is relied on today by several million enthusiastic users around the world and has been the recipient of many industry awards. Visit www.wolfram.com for more information.

World Scientific Publishing Company

Hackensack, New Jersey

World Scientific is an international, academic publisher with eight offices worldwide. Annually, the company publishes more than 400 books and 100 journals in various fields, including physics, mathematics, and engineering.

XLSolutions Corporation

227, 229

Seattle, Washington

XLSolutions Corporation—also known as the creator of R* (R-Star)—provides predictive analytics software and solutions. XLSolutions Consulting Group has provided statistical and mathematical modeling for data analysis and data mining since 1999. For more information, visit www.xlsolutions-corp.com. R u Ready?

statistics.com

318

Arlington, Virginia

Statistics.com is the leading provider of online professional development courses in statistics. Statistics.com also distributes the Excel add-ins Resampling Stats (resampling) and XLMiner (data mining, neural nets, decision trees, k-nearest neighbor, logistic regression, clustering, Bayes classification, association rules, partitioning, and time series).

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Session Tag Descriptions

We expect both theme and applied sessions to draw a diverse audience.

THEME 😂

Theme sessions are directly relevant to the 2007 JSM theme, "Statistics: Harnessing the Power of Information." These sessions highlight presentations and discussions on the role being played by the statistical sciences in the protection and development of people around the globe. Theme sessions are designed to expand the frontiers of statistical thought, emphasize new directions, and promote interdisciplinary collaborations and partnerships.

APPLIED

Applied sessions have real applications at the heart of their discussions and presentations. Because these sessions are grounded in applications across the many areas of science and engineering, they may involve interdisciplinary work and include presentations by nonstatisticians. Applied sessions range from presentations on stateof-the-art statistical methodology applied to real-world problems to tutorials. All statisticians should find these sessions appealing.

All sessions are open freely to registered attendees, except fee events or where noted.

THURSDAY, JULY 26

Committee/Business Meetings & Other Activities

GA-Room 2473 5:00 p.m.-6:30 p.m.

ASA Management Review Committee (closed)

Chair(s): Mary Ellen Bock, Purdue University

7:00 p.m.-9:00 p.m. GA-Room 2473

ASA Board of Directors Executive Committee Working Dinner (closed)

Chair(s): Mary Ellen Bock, Purdue University

FRIDAY, JULY 27

Committee/Business Meetings & Other Activities

7:30 a.m.-8:30 a.m.

GA-Sussex

ASA Board of Directors Breakfast (closed)

Chair(s): Mary Ellen Bock, Purdue University

8:00 a.m.-6:00 p.m.

GA-Riviera

Academic Program Representatives Department Chairs Meeting Day 1 (closed)

Chair(s): Dalene Stangl, Duke University

8:30 a.m.-5:00 p.m.

GA-Audubon

ASA Board of Directors Meeting (closed)

Chair(s): Mary Ellen Bock, Purdue University

12:00 p.m.-1:30 p.m.

GA-Vienna

Academic Program Representatives Department Chairs Lunch (closed)

Chair(s): Dalene Stangl, Duke University

12:30 p.m.-1:30 p.m.

GA-Sussex

ASA Board of Directors Lunch (closed)

Chair(s): Mary Ellen Bock, Purdue University

6:00 p.m.-9:00 p.m.

GA-Fontainbleau

Academic Program Representatives Department Chairs Dinner (closed)

Chair(s): Darlene Stangl, Duke University

6:30 p.m.-7:30 p.m.

GA-Room 2473

JSM Staff and ASA Board of Directors Reception

Chair(s): William B. Smith, American Statistical Association

The 18th Annual **GERTRUDE COX SCHOLARSHIP RACE** The Caucus for Women in Statistics, in conjunction with the ASA, presents the 18th annual Gertrude Cox Scholarship Race at the Joint Statistical Meetings in Salt Lake City, Utah. All proceeds will benefit the Gertrude M. Cox Scholarship in Statistics. The Race: There will be two races running concurrently—a competitive 5K race and a 2.5K fun run/ walk. When: Tuesday, July 31, at 7:00 a.m. Where: Location and logistical information will be posted at the Caucus table at the Salt Palace Convention Center. How Much: The entry fee is \$20.00. Registration: Those interested in participating are encouraged to register early. You may register during JSM at the hospitality table for the Caucus for Women in Statistics at the Salt Palace Convention Center, near the registration area. All participants must sign a registration form and waiver. T-shirts for all preregistered runners will be distributed at the race. If you have questions, please contact Karen Davis at kedavis@cdc.gov. REGISTRATION FORM (each participant must complete and sign form) Name Address

Make check payable to *The Gertrude Cox Scholarship Fund*.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

SATURDAY, JULY 28

Tours

TR01 Salt Lake Bees Baseball Game

7:05 p.m.–10:30 p.m. Off Property-Franklin Covey Field

TR02 Real Salt Lake Soccer Game

7:30 p.m.–10:30 p.m. Off Property-Rice-Eccles Stadium

Committee/Business Meetings & Other Activities

7:00 a.m.–6:00 p.m. CC-South Foyer

JSM Main Registration and ASA Membership/Special Assistance Desk

7:00 a.m.-6:00 p.m. CC-252 A, CC-252B

Speaker Work Rooms

7:00 a.m.–7:00 p.m. CC-South Foyer

Cyber Center

7:30 a.m. – 8:30 a.m. GA-Sussex

ASA Board of Directors Breakfast (closed)

Chair(s): Mary Ellen Bock, Purdue University

8:00 a.m.–4:00 p.m. GA-Riviera

Academic Program Representatives Department Chairs Meeting Day 2 (closed)

Chair(s): Dalene Stangl, Duke University

8:00 a.m.–5:00 p.m. CC-Exhibit Hall D

Exhibitor Move In and Lounge

8:30 a.m.–4:30 p.m. GA-Audubon

ASA Board of Directors Meeting (closed)

Chair(s): Mary Ellen Bock, Purdue University

9:00 a.m.–5:00 p.m. CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

9:00 a.m.-5:00 p.m.

CC-Exhibit Hall C

Career Placement Service (job posting and resume submission only)

11:30 a.m.-12:30 p.m.

GA-Vienna

Association of GCRC Statisticians Lunch (closed)

Organizer(s): Robert Oster, The University of Alabama at Birmingham

12:00 p.m.–1:00 p.m. GA-Sussex

ASA Board of Directors Lunch (closed)

Chair(s): Mary Ellen Bock, Purdue University

12:00 p.m.–1:30 p.m. GA-Fontainbleau

Academic Program Representatives Department Chairs Lunch (closed)

Chair(s): Dalene Stangl, Duke University

12:00 p.m.–5:00 p.m. CC-South Foyer

ASA Marketplace

12:30 p.m.–5:30 p.m. GA-Milano

Association of GCRC Statisticians Meeting (closed)

Organizer(s): Robert Oster, The University of Alabama at Birmingham

3:00 p.m.–6:00 p.m. GA-Envoy

NISS/SAMSI Affiliates Meeting (closed)

Organizer(s): Alan Karr, National Institute of Statistical Sciences

Continuing Education (Fee Events)

CE 01C

Bayesian Modeling in Practice

8:30 a.m.–5:00 p.m. CC-151 G

ASA

Instructor(s): David Spiegelhalter, MRC Biostatistics Unit

CE 02C%

Applied Longitudinal Analysis

8:30 a.m.–5:00 p.m. CC-150 G

ASA

Instructor(s): Garrett Fitzmaurice, Harvard University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

CE_03C

Design and Analysis of Crossover Experiments

8:30 a.m.-5:00 p.m.

CC-150 A-C

Biopharmaceutical Section, ASA

Instructor(s): Dallas Johnson, Kansas State University

CE_04C
Latent Class Analysis of Survey Error

8:30 a.m.-5:00 p.m.

CC-150 D-F

Section on Survey Research Methods, ASA

Instructor(s): Paul Biemer, RTI International/The University of North Carolina at Chapel Hill

CE_05C

Statistical Methods for the Analysis of Recurrent Events

8:30 a.m.-5:00 p.m.

CC-151 A-C

ASA

Instructor(s): Richard J. Cook, University of Waterloo; Jerald F. Lawless, University of Waterloo

CE_06C

Nonclinical Statistics for Drug Discovery

8:30 a.m.-5:00 p.m.

CC-151 DE

ASA

Instructor(s): Kimberly Crimin, Wyeth; Thomas Vidmar, Pfizer Inc.

CE_07C

Graphics of Large Datasets

8:30 a.m.-5:00 p.m.

CC-151 F

Section on Statistical Graphics, ASA

Instructor(s): Antony Unwin, University of Augsburg; Heike Hofmann, Iowa State University



Providing Tax Data You Can COUNT On... consider it done

Statistics of Income Division

Internal Revenue Service

U.S. Department of the Treasury

202-874-0410

Statistics of Income (SOI) produces data files compiled from samples of tax and information returns filed with the IRS. There's a wealth of financial information on individuals, business taxpayers, tax-exempt organizations, trusts and estates, and more.



To learn more, be sure to...

Visit us at Booth 415 for information on SOI papers at JSM 2007

Check out our career opportunities at the 2007 JSM Career Placement Service

See SOI's Web site: www.irs.gov/ taxstats

SUNDAY, JULY 29

Tours

TR03 Utah Gold & Silver

9:00 a.m.-5:00 p.m. CC-South Foyer (200 South Street)

TR04 Crossroads of the West City Tour

1:00 p.m.-4:00 p.m. CC-South Foyer (200 South Street)

Committee/Business Meetings & Other Activities

GA-Vienna 7:00 a.m.-8:00 a.m.

Association of GCRC Statisticians Breakfast (closed)

Organizer(s): Robert Oster, The University of Alabama at Birmingham

7:00 a.m.–12:30 p.m. GA-Provence

Committee on Publications Meeting (closed)

Chair(s): Edward Wegman, George Mason University

CC-252 A, CC-252B 7:00 a.m.-6:00 p.m.

Speaker Work Rooms

7:00 a.m.-8:30 p.m. CC-South Foyer

JSM Main Registration and ASA Membership/Special **Assistance Desk**

7:00 a.m.-10:30 p.m. **CC-South Foyer**

Cyber Center

7:30 a.m.-9:30 a.m. GA-Embassy

Committee on Women in Statistics Meeting (closed)

Chair(s): Teri Peterson, Idaho State University

GA-Milano 8:00 a.m.-12:00 p.m.

Association of GCRC Statisticians Meeting (closed)

Organizer(s): Robert Oster, The University of Alabama at Birmingham

8:00 a.m.-12:00 p.m.

GA-Tuscany

Advisory Committee on Teacher Enhancement Business Meeting

Chair(s): Mike Adams, The University of Alabama

8:00 a.m.-12:00 p.m. CC-Exhibit Hall D

Exhibitor Move In

GA-Grenoble 8:00 a.m.-1:00 p.m.

IMS Executive Committee Meeting I (closed)

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

GA-Ambassador 9:00 a.m.-12:00 p.m.

Council of Sections Governing Board Meeting (closed)

Chair(s): S. Lynne Stokes, Southern Methodist University

CC-South Foyer 9:00 a.m.-5:00 p.m.

ASA Marketplace

CC-Main Lobby, Level 2 9:00 a.m.-5:00 p.m.

Salt Lake City Visitors Information Center

10:00 a.m.-4:00 p.m. GA-Savoy

Writing Workshop (closed)

Chair(s): Nell Sedransk, National Institute of Statistical Sciences; Keith

Crank, American Statistical Association

12:00 p.m.-1:00 p.m. GA-Vienna

Association of GCRC Statisticians Lunch (closed)

Organizer(s): Robert Oster, The University of Alabama at Birmingham

12:00 p.m.-2:00 p.m. GA-Riviera

Statistica Sinica Board Meeting (closed)

Organizer(s): Xiao-li Meng, Harvard University

12:00 p.m.-2:00 p.m. GA-Embassy

Journal of Statistics Education Editorial Board Meeting (closed)

Chair(s): William Notz, The Ohio State University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

1:00 p.m.-2:30 p.m.

GA-Tuscany

Committee on Committees Meeting (closed)

Chair(s): Susan Devlin, The Artemis Group

1:00 p.m.-6:00 p.m.

CC-Exhibit Hall D

EXPO 2007

1:00 p.m.-6:00 p.m.

CC-Exhibit Hall D

ASA Booth #101

1:00 p.m.-6:00 p.m.

CC-Exhibit Hall C

Career Placement Service (full placement service open)

2:00 p.m.-4:30 p.m.

GA-Murano Garden Salon

Council of Sections Annual Business Meeting (closed)

Chair(s): S. Lynne Stokes, Southern Methodist University

3:00 p.m.-4:30 p.m.

GA-Venice

Caucus for Women in Statistics Executive Committee Meeting (closed)

Organizer(s): Tena Katsaounis, The Ohio State University

4:00 p.m.-5:30 p.m.

GA-Versailles

2007 & 2008 ASA Committee Chairs Meeting (closed)

Chair(s): Susan Devlin, The Artemis Group

4:00 p.m.-6:00 p.m.

GA-Envoy

Career Development Seminar: You Don't Need To Perish in Order To Publish (free and open to all attendees)

Chair(s): Janice Lent, Energy Information Administration

4:30 p.m.-8:00 p.m.

GA-Tuscany

ENAR Executive Committee Meeting (closed)

Organizer(s): Kathy Hoskins, ENAR

5:00 p.m.-6:30 p.m.

GA-Audubon

Council of Sections New Officer Orientation Meeting (closed)

Chair(s): Linda Gage, California Department of Finance

5:00 p.m.-8:00 p.m.

GA-Vienna

International Chinese Statistical Association Board Meeting (closed)

Organizer(s): Ming-Hui Chen, University of Connecticut

5:30 p.m.-7:00 p.m.

CC-151 A-C

Cancer Center Biostatistics Directors Annual Meeting

Organizer(s): Terry Hyslop, Thomas Jefferson University

5:30 p.m.-7:00 p.m.

GA-Embassy

Committee on Scientific Freedom and Human Rights

Meeting

Chair(s): Susan Hinkins, NORC at the University of Chicago

6:00 p.m.-7:30 p.m.

CC-Ballrooms A-B

JSM First-Time Attendee Orientation and Reception (open to all first-time attendees, included in registration fee)

Chair(s): Tena Katsaounis, The Ohio State University

6:00 p.m.-7:30 p.m.

GA-Milano

Section on Quality and Productivity Executive Committee Meeting (closed)

Chair(s): William Guthrie, National Institute of Standards and Technology

6:00 p.m.–7:30 p.m.

CC-251 D

ASA Open Meeting (all welcome)

Chair(s): Mary Ellen Bock, Purdue University

6:00 p.m.-8:00 p.m.

GA-Provence

Section on Statistics and the Environment Executive Committee Meeting (closed)

Chair(s): Mary Christman, University of Florida

6:00 p.m.-9:00 p.m.

GA-Riviera

IMS Council Meeting I (closed)

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

6:00 p.m.-9:00 p.m.

GA-Ambassador

Biometrics Section Executive Meeting (closed)

Chair(s): Thomas R. Tenhave, University of Pennsylvania

6:30 p.m.–8:30 p.m.

Off Property

Section on Statistical Consulting Executive Committee Meeting (closed)

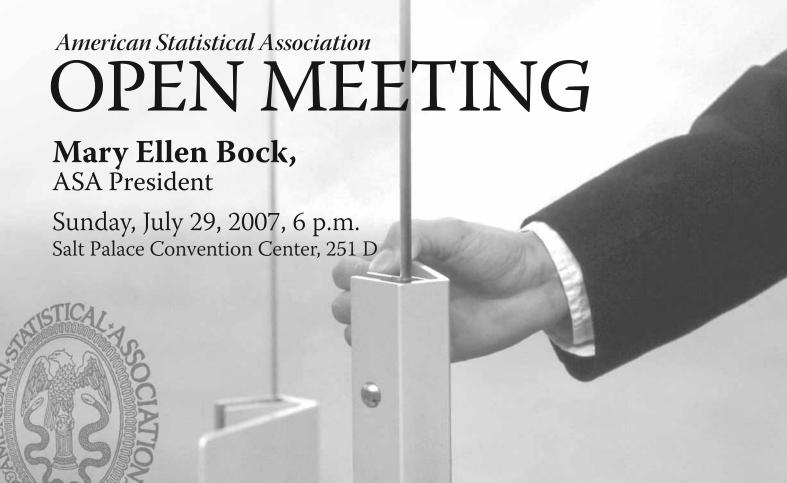
Chair(s): Stuart Gansky, University of California, San Francisco

7:00 p.m.-8:00 p.m.

CC-155 B

Advisory Committee on Continuing Education Presenter Social (closed)

Chair(s): Katherine Halvorsen, Smith College



FIND OUT WHAT YOUR ASSOCIATION IS DOING!

Come to the Open Meeting, meet your officers, hear about the following items, among others, and voice your opinions about the ASA:

- ➤ 2007 state of the Association *Mary Ellen Bock*
- ➤ Update on ASA finances Sastry G. Pantula
- ➤ Update from the Committee on Rewriting the ASA Strategic Plan *Robert Rodriquez*
- ➤ Introduction of Ronald Wasserstein, the incoming ASA executive director William B. Smith
- ➤ Summary of 2006 Board task forces Sallie Keller-McNulty
- ➤ Questions from the floor *Executive Committee*

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

7:00 p.m.-9:00 p.m.

CC-150 G

Isolated Statisticians Meeting

Organizer(s): Ann Cannon, Cornell College

8:00 p.m.-10:30 p.m.

CC-Ballrooms C-J

Opening Mixer (included in registration fee)

Continuing Education (Fee Events)

CE_01C

Bayesian Modeling in Practice

8:30 a.m.-5:00 p.m.

CC-151 G

ASA

Instructor(s): David Spiegelhalter, MRC Biostatistics Unit

CE_08C

Dose Finding in Drug Development

8:00 a.m.-12:00 p.m.

CC-151 D-F

Biopharmaceutical Section, ASA

Instructor(s): Naitee Ting, Pfizer Inc.; James MacDougall, Bristol-Myers Squibb Company

CE_09C

Generalized Linear Mixed Models: Theory and Applications

8:30 a.m.-5:00 p.m.

CC-150 G

ASA

Instructor(s): Oliver Schabenberger, SAS Institute Inc.

CE_10C

Statistical Evaluation of Medical Tests and Biomarkers for Classification

8:30 a.m.-5:00 p.m.

CC-150 A-C

Section on Statistics in Epidemiology, ASA

Instructor(s): Margaret Pepe, Fred Hutchinson Cancer Research Center; Holly Janes, The Johns Hopkins University; Todd Alonzo, University of Southern California

CE 11C

Modeling and Data Analysis for Complex Surveys

8:30 a.m.-5:00 p.m.

CC-150 D-F

Section on Statistics and the Environment, Section on Survey Research Methods, ASA

Instructor(s): Jay Breidt, Colorado State University; Jean Opsomer, Iowa State University

CE_12C

A Practical Guide for the Design and Analysis of Virtual (Computer Model) Experiments

8:30 a.m.-5:00 p.m.

CC-151 A-C

Section on Quality and Productivity, ASA

Instructor(s): Jerry Sacks, National Institute of Statistical Sciences; William J. Welch, University of British Columbia

CE_13C

Data Quality and Record Linkage Techniques

8:30 a.m.-5:00 p.m.

CC-155 A

ASA

Instructor(s): Thomas Herzog, U.S. Department of Housing and Urban Development; Fritz Scheuren, NORC at the University of Chicago; William Winkler, U.S. Census Bureau

CE_14C

Adaptive Dose-Response Studies

1:00 p.m.-5:00 p.m.

CC-151 D-F

ASA

Instructor(s): Christopher S. Coffey, The University of Alabama at Birmingham; Brenda Gaydos, Eli Lilly and Company; Jose Pinheiro, Novartis Pharmaceuticals

Invited Sessions 2:00 p.m.-3:50 p.m.

1 CC-251 D

 Bayesian Statistics and Random Matrices— Invited

Section on Bayesian Statistical Science

Organizer(s): Helene M. Massam, York University

Chair(s): Paul Speckman, University of Missouri-Columbia

2:05 p.m. Covariance Selection and Bayes Classification

via Modal Shrinkage Estimators—*Jingqin Luo, Washington University in St. Louis; Merlise A. Clyde, Duke University; Edwin Iversen, Duke

University

2:30 p.m. Discrete Hierarchical Model Search with Conjugate

Priors for Log-Linear Parameters— * Adrian Dobra, University of Washington; Helene M.

Massam, York University

2:55 p.m. Local Graphical Model Search— Liang Zhang,

Duke University; Adrian Dobra, University of Washington; Mike West, Duke University

You are invited to the JSM

First-Time Attendee

orientation and reception

Salt Palace Convention Center, Ballrooms A-B Sunday, July 29, 6:00 p.m.-7:30 p.m.

Open to All First-Timers

(Dinner groups will form after the reception.)

AGENDA

- Introduction: Tena Katsaounis, President, The Caucus for Women in Statistics
- · Good Advice That I Ignored During My First JSM: Monnie McGee, Southern **Methodist University**

Reception (light hors d'oeuvres to be served)

Learn more about how to get the most out of your first JSM experience, meet new people, and network.



Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

3:20 p.m. Flexible Priors for Covariance Matrices in

Gaussian Graphical Models— Bala Rajaratnam, Statistical and Applied Mathematical Sciences Institute; Carlos Carvalho, Duke University; Helene M. Massam, York University

3:45 p.m. Floor Discussion

2 CC-250 F

The Special Interest Group on Volunteerism: Two Years Out—Invited

Section on Statistical Education, Committee on Scientific Freedom and Human Rights, Section on Government Statistics

Organizer(s): David Banks, Duke University

Chair(s): Susan Hinkins, NORC at the University of Chicago

2:05 p.m. **Update on SIG on Volunteering Efforts—** Robert Starbuck, Wyeth

2:30 p.m. Developing Graduate Degrees in Statistics at

Universities in Vietnam— Alicia Carriquiry,

Iowa State University

2:55 p.m. Discussion of the Special Interest Group on

Statistical Volunteerism—* Jana Asher, Carnegie

Mellon University

3:20 p.m. Promoting Quantitative Literacy for School-Age

Children—❖Shail J. Butani, Bureau of Labor

Statistics

3:45 p.m. Floor Discussion

3 CC-255 C

◆ Fundamental Statistical Questions Underlying Clinical Trials—Invited

Biopharmaceutical Section, ENAR, Biometrics Section, WNAR

Organizer(s): Alan Dorfman, Bureau of Labor Statistics

Chair(s): William G. Cumberland, University of California, Los Angeles

2:05 p.m. Beyond Statistical Methods: Quality of Trial

Administration

2:35 p.m. On Criteria for a Measure of Statistical Evidence

in Clinical Trials: What We Want and What We Don't—* Jeffrey D. Blume, Brown University

3:05 p.m. Disc: Alan Dorfman, Bureau of Labor Statistics

3:25 p.m. Floor Discussion

4 CC-250 B

● **②** Some New Developments in Statistical Learning—Invited

Section on Statistical Computing, Section on Bayesian Statistical Science, Section on Teaching Statistics in the Health Sciences, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences

Organizer(s): Ji Zhu, University of Michigan

Chair(s): Sijian Wang, University of Michigan

2:05 p.m. The Adaptive Lasso and Its Oracle Properties—

*Hui Zou, The University of Minnesota

2:35 p.m. Robust Support Vector Machines— *Yufeng Liu,

The University of North Carolina at Chapel Hill

3:05 p.m. Bayesian Ensemble Active Learning— Hugh

Chipman, Acadia University; Edward I. George, University of Pennsylvania; Robert McCulloch, The University of Chicago Graduate School of

Business

3:35 p.m. Floor Discussion

5 CC-355 A

Time Series Studies of Air Pollution and Health— Invited

WNAR, ENAR, Section on Health Policy Statistics, Section on Risk Analysis, Biometrics Section, Section on Statistics and the Environment

Organizer(s): Paul Switzer, Stanford University

Chair(s): Paul Switzer, Stanford University

2:05 p.m. Estimating the Distributed Lag between Air

Pollution and Hospitalization Using a Bayesian Hierarchical Model— Roger Peng, The Johns Hopkins University; Francesca Dominici, The Johns Hopkins University; Leah Welty,

Northwestern University

2:35 p.m. Reassessing the Relationship Between Ozone and

Short-Term Mortality in U.S. Urban Communities— *Richard L. Smith, The University of North Carolina at Chapel Hill; Baowei Xu, The University of North Carolina at Chapel Hill; Allen S. Lefohn, A.S.L. & Associates; Paul

Switzer, Stanford University

3:05 p.m. Looking Through the Time Series Study Lens:

Do We See Reality or Fiction?— Elizabeth A.

Sheppard, University of Washington

3:35 p.m. Floor Discussion

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center

6 CC-250 C Threshold Estimation for Functions in Nonparametric and Semiparametric Problems—

Section on Nonparametric Statistics

Invited

Organizer(s): Moulinath Banerjee, University of Michigan

Chair(s): Kerby Shedden, University of Michigan

2:05 p.m. Asymptotically Optimal Tests Under Loss of

Identifiability in Semiparametric Models—Rui Song, The University of North Carolina at Chapel Hill; *Michael Kosorok, The University of North Carolina at Chapel Hill; Jason Fine,

University of Wisconsin-Madison

2:30 p.m. Trajectories as Predictors of Univariate Responses—

*Ian McKeague, Columbia University

2:55 p.m. Multistage Procedures for Change Point

Estimation— George Michailidis, The

University of Michigan

3:20 p.m. Disc: Moulinath Banerjee, University of Michigan

3:40 p.m. Floor Discussion

7 CC-155 E

Medallion Lecture I—Invited

IMS, General Methodology, Biometrics Section Organizer(s): Tony Cai, University of Pennsylvania

Chair(s): Brani Vidakovic, Georgia Institute of Technology

2:05 p.m. Modeling Genes: Statistical Challenges in Modern

Genetics—**♦**Peter Donnelly, University of Oxford

3:30 p.m. Floor Discussion

CC-250 E

Nonlinear and Nonstationary Time Series Analysis—Invited

International Indian Statistical Association

Organizer(s): Soumendra N. Lahiri, Texas A&M University

Chair(s): Soumendra N. Lahiri, Texas A&M University

2:05 p.m. Multiple Local Whittle Estimation in Stationary

Systems—* Peter M. Robinson, London School

of Economics

2:30 p.m. **Generalized R-estimators Under Conditional**

Heteroscedasticity— & Kanchan Mukherjee, The

University of Liverpool

Conditions for the Propagation of Memory 2:55 p.m.

Parameter from Durations to Counts and Realized

Volatility— Clifford M. Hurvich, New York

University

3:20 p.m. Break Detection for a Class of Nonlinear Time

> Series Models— Richard A. Davis, Colorado State University; Thomas C. M. Lee, The Chinese University of Hong Kong; Gabriel Rodriguez-Yam, Universidad Autonoma

Chapingo

Floor Discussion 3:45 p.m.

9 CC-251 A

Propensity-Score Matching for Observational Studies: Recent Extensions and Refinements— Invited

IMS, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, WNAR

Organizer(s): Ben B. Hansen, University of Michigan Chair(s): Jonathan Stroud, University of Pennsylvania

2:05 p.m. Semiparametric Sequential Estimators for

Dynamic Causal Models— Michael H. Lechner,

University of St. Gallen

2:30 p.m. Propensity Score-Matching Design in Studies with

Repeated Measures— Bo Lu, The Ohio State

University

2:55 p.m. Matching with Propensity and Prognostic Scores—

&Ben B. Hansen, University of Michigan

3:20 p.m. Disc: Donald B. Rubin, Harvard University

Floor Discussion 3:40 p.m.

CC-260 10

Inference for Multistate Data Under Complex Censoring Structures—Invited

ENAR, Biometrics Section, Section on Physical and Engineering Sciences

Organizer(s): Somnath Datta, University of Louisville

Chair(s): Susmita Datta, University of Louisville

Statistical Analysis of Multivariate Interval-2:05 p.m.

> Censored Data— * Jianguo Sun, University of Missouri-Columbia; Manhua Chen, University of Missouri-Columbia; Xingwei Tong, Academia

of Science

2:30 p.m. Analysis of Longitudinal and Response/Failure

> Time Data from an Observational Study with Missing Observations—❖ Dianne M. Finkelstein,

Harvard/MGH; Natasa Rajicic, Pfizer Inc.; David A. Schoenfeld, MGH/Harvard

2:55 p.m. Multiply Robust Higher-Order U-Statistics

> **Estimators for Continuous-Time Multistate Data Structures**— * James Robins, Harvard School of

Public Health

General Program Schedule

◆ Themed Session ◆ Applied Session ◆ Presenter CC-Salt Palace Convention Center GA-The Grand America Hotel

3:20 p.m. Disc: Somnath Datta, University of Louisville3:40 p.m. Floor Discussion

11 CC-155 B

Alzheimer's Disease Research in Utah: Analysis Methods for Early Detection, Epidemiology, and Clinical Trials—Invited

ASA, Utah Chapter, Council of Chapters, ENAR, Section on Statistics in Epidemiology, Biometrics Section

Organizer(s): Suzanne Hendrix, Myriad Pharmaceuticals Chair(s): C. Shane Reese, Brigham Young University

2:05 p.m. Cognitive Change as a Biomarker in the Early
Detection of Alzheimer's Disease—& Gordon J.
Chelune, The University of Utah

2:35 p.m. Analyzing Repeated Neuropsychiatric, Cognitive, and Functional Measures in a Population-Based Study of Dementia—& Chris Corcoran, Utah State University; Carl F. Pieper, Duke University; Peter Zandi, The Johns Hopkins University

3:05 p.m. Responder versus Means Analysis: Illustrated with Data from a Phase 2 Study of Tarenflurbil (MPC-7869) in Alzheimer's Disease (AD)—& Kenton Zavitz, Myriad Pharmaceuticals; Mark Laughlin, Myriad Pharmaceuticals; Edward Swabb, Myriad

Pharmaceuticals Floor Discussion

12 CC-355 F

Measuring and Improving Data Quality: A Prerequisite to Harnessing the Power of Information—Invited

Social Statistics Section, Section on Government Statistics, Section on Survey Research Methods

Organizer(s): Nancy Gordon, U.S. Census Bureau Chair(s): Nancy Gordon, U.S. Census Bureau

2:05 p.m. Assessing the Effectiveness of Using Panel
Respondent Mode Preferences—& Thomas B.
Hoffer, NORC at the University of Chicago;
Karen Grigorian, NORC at the University of
Chicago; Ron Fecso, National Science Foundation

2:30 p.m. Look and Listen, But Don't Stop: Interviewers and Data Quality in the 2007 SCF—*Arthur B. Kennickell, Federal Reserve Board

2:55 p.m. Survey Quality and Quality Metrics: An Economic Approach—* Julia Lane, NORC at the University of Chicago; Suzanne Bard, NORC at the

University of Chicago; Judith Petty, NORC at the

University of Chicago

3:20 p.m. Disc: Cheryl R. Landman, U.S. Census Bureau

3:40 p.m. Floor Discussion

Topic-Contributed Sessions 2:00 p.m.-3:50 p.m.

13 CC-355 B

● 2007 Government Statistics, Social Statistics, and Survey Research Methods Student Paper Awards Session—Topic-Contributed

Section on Survey Research Methods, Social Statistics Section, Section on Government Statistics, SSC

Organizer(s): Roberta Sangster, Bureau of Labor Statistics Chair(s): Steven Heeringa, Institute for Social Research

2:25 p.m. Nonparametric Modeling of the Second Order Structure of Processes with Time-Varying Memory—& Georg Goerg, Vienna University of Technology; Dana Draghicescu, Hunter College

2:45 p.m. Cosponsorship in the U.S. Senate: A Mixed Effects Approach to Detecting the Subtle Influence of Social Relational Factors on Legislative Behavior—* Justin Gross, Carnegie Mellon University; Stephen Fienberg, Carnegie Mellon University; Cosma Shalizi, Carnegie Mellon University; David Krackhardt, Carnegie Mellon

University

3:05 p.m. Imputing Missing Data in the FBI's Uniform Crime Reports— Clint Roberts, The Ohio State

University; Elizabeth A. Stasny, The Ohio State University; Michael D. Maltz, The Ohio State

University

3:25 p.m. Using the Multiple Imputation Technique To Correct for Measurement Error and Statistical Disclosure

Control in Sensitive Count Data in a National Survey— Mandi Yu, University of Michigan

3:45 p.m. Floor Discussion

3:35 p.m.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

CC-255 D 14

• © Efficient Designs in Drug Development—Topic-Contributed

Biopharmaceutical Section, Biometrics Section, ENAR Organizer(s): Michael Smith, Pfizer Inc.

Bayesian Forecasting of Multicenter Enrollment— 2:05 p.m. ❖Byron Jones, Pfizer Inc.

2:25 p.m. A Bayesian Design and Analysis for Dose-Response Using Informative Prior Information— Michael Smith, Pfizer Inc.; Scott Marshall, Pfizer Inc.

Model-Based Trial Design in Depression Using 2:45 p.m. **Bayesian Monitoring and Bootstrap Trial** Simulation—❖Roberto Gomeni, GlaxoSmithKline

3:05 p.m. Optimizing the Manufacturing of Phase III Material During Phase II Trials— Nitin Patel, Cytel Inc.; Francoise Vandenhende, Eli Lilly and Company

3:25 p.m. Accounting for Patient Heterogeneity in Phase II Clinical Trials— * J. Kyle Wathen, The University of Texas M. D. Anderson Cancer Center; Peter F. Thall, The University of Texas M. D. Anderson Cancer Center; John D. Cook, The University of Texas M. D. Anderson Cancer Center

3:45 p.m. Floor Discussion

15 CC-255 E

◆ ○ Novel Analyses of Time-To-Event Data—Topic-Contributed

Biopharmaceutical Section, ENAR, Section on Risk Analysis Organizer(s): Devan V. Mehrotra, Merck & Co., Inc. Chair(s): Donna Kowalski, Astellas Pharma US

Extensions of Cure Models for Clustered Time-2:05 p.m. to-Event Data—* Jeremy Taylor, University of Michigan; Yingwei Peng, Queen's University

Constructing Approximate Confidence Bounds for 2:25 p.m. the True Survival Curve Using the Kaplan-Meier Survival Function by Adding an Imaginary Failure or Eternal Survivor— Craig B. Borkowf, Centers for Disease Control and Prevention (CDC)

A Two-Stage Procedure for Comparing Hazard 2:45 p.m. Rate Functions— Peihua Qiu, The University of Minnesota

3:05 p.m. Improved Hazard Ratio Estimation in Small Timeto-Event Trials— Devan V. Mehrotra, Merck & Co., Inc.; Arthur Roth, Pfizer Inc.

3:25 p.m. Disc: David P. Harrington, Dana-Farber Cancer

Institute

Floor Discussion 3:45 p.m.

CC-259 16

Design and Inference in Multinational Trials— **Topic-Contributed**

ENAR, Biometrics Section, Biopharmaceutical Section, WNAR Organizer(s): Yoko Tanaka, Eli Lilly and Company Chair(s): Ramon Littell, University of Florida

Design of Multinational Study for Global 2:05 p.m. Development— *Yoshiharu Horie, Nippon Boehringer Ingelheim Co. Ltd.; Masahiro

Takeuchi, Kitasato University

2:25 p.m. Sample Size Determination of Japanese Patients for Multiregional Clinical Trial in Oncology— Risa Sekiguchi, Eli Lilly and Company; Sachio Ogawa, Eli Lilly and Company; Hiroyuki Uesaka, Eli Lilly and Company

2:45 p.m. Issues in Design of Multiregional Trials— * Yoichi Ii, Pfizer Japan Inc.; Osamu Komiyama, Pfizer Japan Inc.; Kazuhiko Kuribayashi, Pfizer Japan Inc.

3:05 p.m. **Issues in Conducting Multiregional Trial:** Experience in the PMDA Consultation Meetings— Yuki Ando, Pharmaceuticals and Medical **Devices Agency**

3:25 p.m. Disc: Henry Hsu, U.S. Food and Drug Administration

3:45 p.m. Floor Discussion

CC-155 C **17**

Sufficient Dimension Reduction and High-**Dimensional Data—Topic-Contributed**

IMS, Section on Nonparametric Statistics Organizer(s): Lexin Li, North Carolina State University Chair(s): Wenbin Lu, North Carolina State University

2:05 p.m. Generalized K-Means Inverse Regression **Estimation**—**♦** Xuerong Wen, University of Missouri-Rolla

A Novel Moment-Based Sufficient Dimension 2:25 p.m. Reduction Approach in Multivariate Regression— ♦ Jae Keun Yoo, University of Louisville

Principal Components for Regression: A 2:45 p.m. Conditional Point of View— Liliana Forzani, The University of Minnesota

Dimension Reduction in Time Series—❖ Jin-Hong 3:05 p.m. Park, University of Georgia

Model-Free Multivariate Reduced-Rank Model 3:25 p.m. Regression with Categorical Predictor— Messan C. Setodji, RAND Corporation; Lexin Li, North

Carolina State University

Floor Discussion 3:45 p.m.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

18 CC-155 F

Spatial Statistics Applied to Environment— Topic-Contributed

IMS, Section on Statistical Consulting, Section on Statistics and the Environment

Organizer(s): Tonglin Zhang, Purdue University Chair(s): Michael Levine, Purdue University

2:05 p.m. Block Bootstrap Procedures for Modeling Inhomogeneous Spatial Point Patterns—

*Yongtao Guan, Yale University

2:25 p.m. Assimilation of Current Measurements into a Circulation Model of Lake Michigan—* Zepu Zhang, The University of Chicago; Dmitry Beletsky, University of Michigan; David Schwab, National Oceanic and Atmospheric Administration; Michael Stein, The University of Chicago

2:45 p.m. Spectrum Estimation for Isotropic Intrinsically Stationary Spatial Processes—& Chunfeng Huang, The Ohio State University; Tailen Hsing, The Ohio State University; Noel Cressie, The Ohio State University

3:05 p.m. Taxonomy of Spatially Clustered Disease Data:
Capturing and Explaining Spatial Clustering and
Cluster—*Ge Lin, West Virginia University

3:25 p.m. Space-Time Latent Structure Modeling for Small-Area Health Data— Andrew B. Lawson, University of South Carolina

3:45 p.m. Floor Discussion

19 CC-254 B

◆ Bayesian Modeling of Longitudinal or Event-Time Data Subject to Nonresponse or Censoring— Topic-Contributed

Section on Bayesian Statistical Science, ENAR, Section on Health Policy Statistics Organizer(s): Susan Paddock, RAND Corporation Chair(s): Jamie Bigelow, Duke University

2:05 p.m. Bayesian Variable Selection in Linear Mixed-Effects Models for Longitudinal Data with Missing Values—* Xiaowei Yang, University of California, Davis

2:25 p.m. Bayesian Variable Selection for Analyzing
Longitudinal Substance Abuse Treatment Data
Subject to Informative Censoring— Susan
Paddock, RAND Corporation

2:45 p.m. Approximate Bayesian Model Averaging for Latent Class Pattern Mixture Models with an Unknown Number of Classes—* Jason Roy, Geisinger

Health System; Michael Daniels, University of

lorida

3:05 p.m. Institutionalization at Follow-Up: An Application of Principal Stratification to the Evaluation of Substance Abuse Treatment—*Daniel McCaffrey, RAND Corporation; Beth Ann Griffin, RAND Corporation

3:25 p.m. Latent Class Modeling of Growth and Reproduction in Sublethal Toxicity Tests— Michael Pennell, The Ohio State University; David B. Dunson, National Institute of Environmental Health Sciences

3:45 p.m. Floor Discussion

20 CC-254 A

◆ Section on Bayesian Statistics Student Paper Competition—Topic-Contributed

Section on Bayesian Statistical Science
Organizer(s): Merlise A. Clyde, Duke University
Chair(s): Abel Rodriguez, Duke University

2:05 p.m. Bayesian Classification of Sleep States in Mice (Student Paper Competition)—& Chaitra Nagaraja, University of Pennsylvania; Shane T. Jensen, University of Pennsylvania; Abraham Wyner, University of Pennsylvania

2:25 p.m. Path Sampling To Compute Bayes Factors: An Adaptive Approach—& Genevieve Lefebvre, McGill University; Russell Steele, McGill University; Alain C. Vandal, McGill University; Sridar Narayanan, McConnell Brain Imaging Centre; Douglas L. Arnold, McConnell Brain Imaging Centre

2:45 p.m. Multivariate Developmental Trajectory Models
To Identify Longitudinal Patterns of Disability in
Seniors—*Jason Connor, Berry Consultants

3:05 p.m. Analysis of Immunohistochemical Data Using
Measurement Error Models—*Ronglai Shen,
University of Michigan; Debashis Ghosh,
University of Michigan; Jeremy Taylor,
University of Michigan

3:25 p.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Topic-Contributed Panels 2:00 p.m.-3:50 p.m.

21 CC-251 E Identifying and Overcoming Barriers to Teaching a Reformed Introductory Course—Topic-Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Doug Zahn, Zahn and Associates Chair(s): Doug Zahn, Zahn and Associates

Christine Kohnen, Saint Olaf College

*Karen Kinard, Tallahassee Community College

Mary Parker, Austin Community College

3:45 p.m. Floor Discussion

Contributed Sessions 2:00 p.m.-3:50 p.m.

22 CC-254 C

Bayesian Time Series and Binary Data— Contributed

Section on Bayesian Statistical Science

Chair(s): Stephen B. Cohen, Agency for Healthcare Research and Quality

2:05 p.m. Mixtures of State Space Models for Time Series with Structural Breaks—*Ori Rosen, University of Texas at El Paso; Sally Wood, University of New South Wales; Robert Kohn, University of

New South Wales

2:20 p.m. Bayesian Analysis and Applications of a

Generalized Threshold Autoregressive Model—

❖ Peng Sun, Merck & Co., Inc.

2:35 p.m. Bayesian Clustering of Time Series with Change

Points— Garrick Wallstrom, University of Dittelyungh: William Hogan, University of Dittelyungh

Pittsburgh; William Hogan, University of Pittsburgh

2:50 p.m. Estimating Kappa Coefficient and Tetrachoric

Correlation for Clustered Binary Data— *Xiao Zhang, The University of Alabama at

Birmingham; Gary Cutter, The University of

Alabama at Birmingham

3:05 p.m. Selected Bayesian Inference for Correlated Binary

Data—❖ Patricia Bahnsen, Stephen F. Austin

State University

3:20 p.m. Bayesian Inference in 2 by 2 Tables— *Yong

Chen, Johns Hopkins Bloomberg School of Public Health; Sining Chen, Johns Hopkins Bloomberg School of Public Health; Haitao Chu, Johns Hopkins Bloomberg School of Public Health

3:35 p.m. Classification with Spectroscopic Data Using

Bayesian Variable Selection—❖ Hongxiao Zhu, Rice University; Dennis D. Cox, Rice University

23 CC-255 B

◆ Recent Advances in Microarray Data Analysis IV—Contributed

Biometrics Section

Chair(s): Veera Baladandayuthapani, The University of Texas M. D. Anderson Cancer Center

2:05 p.m. A Statistical Method for Selecting Differentially

Expressed Genes— * Zhao Chen, Florida Gulf

Coast University

2:20 p.m. Inferring Genomic Copy Number from CGH

Arrays—**♦** Stephen Erickson, The University of

Alabama at Birmingham

2:35 p.m. A Ridge Penalized Principal-Components Approach

Based on Heritability for High-Dimensional Data— ❖ Yuanjia Wang, Columbia University; Yixin Fang, Columbia University; Man Jin, Columbia

University

2:50 p.m. Robustness of Cancer Risk Prediction Using

Microarrays—& Chiang-Ching Huang,

Northwestern University; Irene Helenowski,

Northwestern University

3:05 p.m. Incorporating Prior Knowledge of Predictors

into Penalized Classifiers with Multiple Penalty
Terms—*Feng Tai, The University of Minnesota;

Wei Pan, The University of Minnesota

3:20 p.m. Optimal Microarray Designs for cDNA Microarray

Experiments—* Tathagata Bandyopadhyay, Indian Institute of Management Ahmedabad

3:35 p.m. An Integrated Approach Using Nonparametric

Local Correlation to Identify Critical Pathways in Disease— *Yian Chen, Texas A&M University;

Marina Vannucci, Texas A&M University

24 CC-255 A

◆ Recent Advances in Longitudinal Data Analysis—Contributed

Biometrics Section, Biopharmaceutical Section

Chair(s): Kai Fun Yu, National Institutes of Health

2:05 p.m. Self-Reported Behavior of High-Risk HIV + Youth: Random Effects Models for Multivariate

Longitudinal Discrete Data—& Lily Altstein, University of California, Los Angeles

6	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
2:20 p.m.	Longitudinal Analysis for Post-Transplant Serum Creatinine Data— & Zailong Wang, Novartis Pharmaceuticals; Luen Lee, Novartis Pharmaceuticals	3:05 p.m.	U.S. Food and Drug Administration Optimization of Dilution Scheme— Andrew Chen, MedImmune, Inc.; Harry Yang, MedImmune, Inc.; Iksung Cho, MedImmune, Inc.
2:35 p.m.	Giving Treatment to Controls: When Is It a Good Idea?— & Kimberly Walters, The Ohio State University	3:20 p.m.	Statistical Analysis of Measurement Data with Values Below Detection Limits—& Donghui Zhang, sanofi-aventis; Cun-Hui Zhang, Rutgers
2:50 p.m.	Comparing the Correlation Coefficients Between the Random Effects in Multivariate Linear Mixed Models—*Yuxiao Tang, Rush University; Chengjie Xiong, Washington University in St. Louis	3:35 p.m.	University One-Sided Test for Gene-Gene Association— & Chaehyung Ahn, Rho, Inc.
3:05 p.m.	Comparison of ICC and CCC for Assessing Agreement for Data Without and with Replications—& Chia-Cheng Chen, North Carolina State University	Contribut	
3:20 p.m.	A Local Sensitivity Analysis Approach to Longitudinal Binary Data with Nonignorable Dropout—& Hui Xie,	General Methodology, Biopharmaceutical Section, IMS, Section on Physical and Engineering Sciences, SSC Chair(s): Jing Zhao, Merck & Co., Inc.	
3:35 p.m.	University of Illinois at Chicago A Comparison of Mixed Effect Models and Cox Proportional Hazard Models for Unbalanced Longitudinal Data—*Wonsuk Yoo, Wayne State University; Dennis Tsilimingras, Wayne State University; John M. Flack, Wayne State University	2:05 p.m.	Iterative Modified Likelihood Ratio Test for Homogeneity— Pengfei Li, University of Waterloo; Jiahua Chen, University of British Columbia
		2:20 p.m.	The Equivalence Between Selecting and Hypothesis Testing— Weixing Cai, Syracuse University; Pinyuen Chen, Syracuse University
Developm	CC-255 F stical Issues in Discovery and Nonclinical ent—Contributed	2:35 p.m.	Small Sample Behavior of Resampling Methods— Dongmei Li, The Ohio State University; Jason C. Hsu, The Ohio State University
Biopharmaceutical Section, Biometrics Section Chair(s): Martha E. Nunn, Boston University 2.05 p.m. A New Convolution Record Approach to Developing		2:50 p.m.	The Skew Generalized Secant Hyperbolic Distribution and Its Properties— David Vaughan, Wilfrid Laurier University
2:05 p.m.	A New, Convolution-Based Approach to Developing a Level-A In Vitro In Vivo Correlation— Roel Straetemans, Johnson & Johnson PRD; Tom Jacobs, University Hasselt; Geert Molenberghs, Hasselt University; Luc Bijnens, Johnson & Johnson PRD	3:05 p.m.	Generalized Exponentiated Beta Distribution— Alfred A. Akinsete, Marshall University
		3:20 p.m.	A Study of Robust Estimation Approach for Analysis of Variance When the Distribution of Error Terms Is Non-Normal— Aysun Çetinyürek,
2:20 p.m.	Application of Group Sequential Methodology to a Preclinical Model—* Lixin Han, Wyeth; Suzana Marusic, Wyeth		Başkent University; Bridal Senoglue, Ankara Universities
2:35 p.m.	Developing Statistical Methods for Setting Specification Limits—* Michelle Quinlan, University of Nebraska-Lincoln; Erin Blankenship, University of Nebraska-Lincoln; Walt Stroup, University of Nebraska-Lincoln; James Schwenke, Boehringer Ingelheim	3:35 p.m.	Floor Discussion
		27 CC-155 D ☼ Multiple Hypothesis Testing and Geomics— Contributed IMS, Biometrics Section	
2:50 p.m.	Pharmaceuticals, Inc. Statistical Consideration in the Evaluation of Red Blood Cell Products—*Jeongsook Kim, U.S. Food and Drug Administration; Tie-Hua Ng,	2:05 p.m.	Microson, Yale University Hierarchical Dependence in Meta-Analysis— * John R. Stevens, Utah State University; Alan M. Taylor, Brigham Young University-Idaho

			Ochcrai i rogram Schedule
C	↑ Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
2:20 p.m.	Sequential Hypothesis Testing in Sensor Networks—* Yajun Mei, Georgia Institute of Technology Modified Holm's Critical Values Using	2:50 p.m.	Multiple Imputation of the Euroqol EQ-5D: Testing Different Approaches Using IVEWare— Robert Gerzoff, Centers for Disease Control and Prevention; Theodore J. Thompson, Centers for
2:35 p.m.	Modified Holm's Critical Values Using Correlation—❖ Zijiang Yang, Temple University; Sanat Sarkar, Temple University	3:05 p.m.	Disease Control and Prevention A Choice of Prediction Rules in Logistic Regression
2:50 p.m.	On the Probability of Correct Selection for Large		Models—*Melvin Ott
	k Populations with Application to Microarray Data—* Jason Wilson, University of California, Riverside; Xinping Cui, University of California, Riverside	3:20 p.m.	Nonparametric Confidence Intervals for the Mean of a Right-Skewed Distribution— & Kenny Shum, The Johns Hopkins University; Scott Zeger, The Johns Hopkins University
3:05 p.m.	Alpha-Investing: A New Multiple Hypothesis Testing Procedure— Robert Stine, University	3:35 p.m.	Floor Discussion
	of Pennsylvania; Dean Foster, University of Pennsylvania	29	CC-251 C
3:20 p.m.	Statistics on High-Dimensional Data Analysis— ❖ Yingli Qin, Iowa State University; Song Xi Chen, Iowa State University	Section on Ph Productivity	Analysis and Modeling—Contributed hysical and Engineering Sciences, Section on Quality and
3:35 p.m.	Pseudo-ROC: Method Comparisons in the Absence	Chair(s): Kris	stofer Jennings, Purdue University
σ.σσ μ.π.	of a 'Gold Standard'— Richard Bourgon, European Bioinformatics Institute	2:05 p.m.	A New Statistical Approach for the Analysis of Uncertain Systems— *Xinjia Chen, Louisiana State University; Kemin Zhou, Louisiana State University; Jorge Aravena, Louisiana State
28	CC-355 D		University
 Health Policy Interventions and Methods—		2:20 p.m.	The Efficiency of Ridge Regression Estimators with
Contributed Section on Health Policy Statistics, WNAR			Respect to Zellner's Balanced Loss Function— * Marvin Gruber, Rochester Institute of
Chair(s): Arv	ind Jain, RAND Corporation		Technology
2:05 p.m.	Relationship Between Competitiveness of Colleges and Levels of Tobacco Use—* Joost Bottenbley, The Johns Hopkins University; Yasmin H. Said, George Mason University; Edward	2:35 p.m.	Identification of Dispersion Effects in Replicated Experiments—& Cheryl Dingus, Battelle; Angela Dean, The Ohio State University; Bruce Ankenman, Northwestern University
2,20 n m	Wegman, George Mason University; Samer Ellahham, Innovative Medical Institute/Paragon Cardiovascular Foundation; David Anderson	2:50 p.m.	A Sequential Methodology for Change Point Estimation— * Yan Lan, University of Michigan; Moulinath Banerjee, University of Michigan; George Michailidis, The University of Michigan
2:20 p.m.	Restriction of Trans Fatty Acids in Washington, DC, Metropolitan Area: Health Benefits and Economic Impact—Joost Bottenbley, The Johns Hopkins	3:05 p.m.	Inference for Multipiecewise Regression Using the Bootstrap—* Trevor Craney, Sikorsky
	University; Samer Ellahham, Innovative Medical Institute/Paragon Cardiovascular Foundation; Yasmin H. Said, George Mason University;	3:20 p.m.	Generalized Confidence Intervals for Proportion of Conformance—& Paul Patterson, USDA Forest Service
2:35 p.m.	Edward Wegman, George Mason University; Malda Bashi, Paragon Cardiovascular Foundation Price Indexes with a Health Insurance	3:35 p.m.	Analysis of Probability of Detection and Probability of Alarm on Sonic IR Inspection Data Using the Mixed Effects Model and Bootstrapping—
2.00 μ.π.	Component—❖ Ralph Bradley, Bureau of Labor Statistics		Chunwang Gao, Iowa State University; William Meeker, Iowa State University; Donna Mayton, SAIC

Applied Session

The Central Limit Theorem and Structural Validity

in Factor Analysis— Landon Poppleton,

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

30 CC-251 B Brigham Young University; Mitchell Harris, Brigham Young University; Michael K. Statistical Process Control and Other Related Lauritzen, Brigham Young University; Robert Topics in Quality—Contributed Bubb, Brigham Young University; Bruce Brown, Section on Quality and Productivity Brigham Young University Chair(s): William Guthrie, National Institute of Standards and **Determining a Minimum Number of Observations** 3:20 p.m. *Technology* in Factor Analytic Studies— Robert Bubb, 2:05 p.m. Multivariate Process Control for Improved Brigham Young University; Bruce Brown, Detection of Changes in Process Location— Brigham Young University Amitava Mitra, Auburn University 3:35 p.m. A Meta-Analysis of the Content and Effectiveness 2:20 p.m. Monitoring the Slopes of Linear Profiles—

Junjia of Training Programs for Federal and State Zhu, The Pennsylvania State University Transportation Employees—John Aleong, Monitoring of Hazard Rates for Dynamically 2:35 p.m. University of Vermont; & Chandra Aleong, Changing Observations— & Emmanuel Yashchin, **Delaware State University** IBM T.J. Watson Research Center Benefits of Integrating Operational Profiles with 2:50 p.m. 32 CC-250 D Classical Acceptance Sampling in the 2010 U.S. Water-Related Issues and Methodology— Census— Thomas George, Evolver, Inc. Contributed 3:05 p.m. Sampling Procedures for Extending the Use of the Section on Statistics and the Environment, Biometrics Section Fishbone Diagram— Frank Matejcik, South Chair(s): Annie Chu, University of California, Los Angeles Dakota School of Mines Floor Discussion 2:05 p.m. Functional Linear Models for Daily and Yearly 3:20 p.m. Streamflow Measures—*Mark Greenwood, Montana State University; Johnnie N. Moore, 31 CC-251 F University of Montana; Joel T. Harper, Interesting Statistical Applications—Contributed University of Montana Section on Statistical Education, General Methodology, Section on Teach-2:20 p.m. Modeling Shark Bycatch: The Zero-Inflated ing Statistics in the Health Sciences **Negative Binomial Regression Model with** Chair(s): James Cochran, Louisiana Tech University **Smoothing**— * Mihoko Minami, Institute of 2:05 p.m. Regression Through the Origin: Models and Statistical Mathematics Methods—❖ Patrick Johnston, Children's 2:35 p.m. A Distance-Based Classifier with Application to **Hospital Boston** Microbial Source Tracking— * Jayson Wilbur, Testing the Score Invariance of State Performance 2:20 p.m. Worcester Polytechnic Institute Tests Over Time—❖ Jiahe Qian, Educational 2:50 p.m. Grain Size Distributions in Modern and Ancient **Testing Service** Fluvial Systems— Snehalata Huzurbazar, Inference for Normal Mixture Model, Univariate 2:35 p.m. University of Wyoming or Multivariate, in Both Mean, and Variance— 3:05 p.m. Spatial Modeling for Groundwater Arsenic *Xianming Tan, Queens University; Jiahua Levels in North Carolina— Dohyeong Kim, Chen, University of British Columbia Duke University; Marie Lynn Miranda, Duke Measurement Error in Factor Analysis: The 2:50 p.m. University; Joshua Tootoo, Duke University; Question of Structural Validity— Michael K. Alan E. Gelfand, Duke University Lauritzen, Brigham Young University; Landon 3:20 p.m. Change Point Analysis for Water Pressure Data— Poppleton, Brigham Young University; Mitchell Snehalata Huzurbazar, University of Wyoming; Harris, Brigham Young University; Naomi *Arunendu Chatterjee, University of Wyoming Hunsaker, Brigham Young University; Robert 3:35 p.m. Weibull Prediction Limits with Retesting—❖ Kirk Bubb, Brigham Young University; Bruce Brown, Cameron, MacStat Consulting, Ltd. **Brigham Young University**

3:05 p.m.

 Applied Session Themed Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

CC-258 33

Modeling and Estimation in Environmental and Occupational Health—Contributed

Section on Statistics in Epidemiology, Section on Health Policy Statistics Chair(s): Dirk Moore, University of Medicine and Dentistry of New Jersey

- 2:05 p.m. A Comparative Analysis of the Chronic Effects of Fine Particulate Matter— Sorina Eftim, The Johns Hopkins University; Holly Janes, The Johns Hopkins University; Aidan McDermott, The Johns Hopkins University; Jonathan Samet, The Johns Hopkins University; Francesca Dominici, The Johns Hopkins University
- The Effect of PM2.5 on Hospital Admissions Rates 2:20 p.m. by Season and Region— * Keita Ebisu, Yale University; Michelle Bell, Yale University; Roger Peng, The Johns Hopkins University; Francesca Dominici, The Johns Hopkins University
- 2:35 p.m. Statistical Issues in Health Effects of Air Pollution— Donna Stroup, Klemm Analysis Group, Inc.; Rebecca Klemm, Klemm Analysis Group, Inc.
- 2:50 p.m. **Exposure-Response Assessment of Airborne** Indoor Allergen Immunoassay— * Juan Liang, University of Cincinnati; Linda Levin, University of Cincinnati; Tiina Reponen, University of Cincinnati; Grace LeMasters, University of Cincinnati; David Bernstein, University of Cincinnati; Rolanda Olds, University of Cincinnati; Zana Lummus, University of Cincinnati
- 3:05 p.m. Correcting for Shared Measurement Error in Complex Dosimetry Systems— Terri K. Johnson, University of Southern California; Daniel Stram, University of Southern California
- 3:20 p.m. The Comparison of Fitted Nonlinear Exposure-Response Relationships in Cox Models Using Smoothing Methods Through Simulations— Usha Govindarajulu, Yale University; Betty Malloy, American University; Bhaswati Ganguli, University of Calcutta; Donna Spiegelman, Harvard School of Public Health; Ellen Eisen, Harvard School of Public Health
- Recovering the Estimated Slope of an 3:35 p.m. Unobservable Predictor in a Simple Regression— Wenyaw Chan, The University of Texas at Houston; Hung-Wen Yeh, The University of Kansas Medical Center; Elaine Symanski, University of Texas at Houston

CC-257 34

Modeling and Estimation of Disease Prevalence, Incidence, and Spread—Contributed

Section on Statistics in Epidemiology, Section on Health Policy Statistics, Section on Teaching Statistics in the Health Sciences

Chair(s): Leann Myers, Tulane University

- Informative Allocation To Stabilize MLE in Finite 2:05 p.m. Mixture Models—❖ Nong Shang, Centers for Disease Control and Prevention
- 2:20 p.m. An Incidence Model for Capture Recapture— Lawrence Lessner, State University of New York at Albany
- Spatial Analysis of Breast Cancer Incidence in 2:35 p.m. Rockland County, New York County, and Western Queens County—& Heather Watson, New York University; Mengling Liu, New York University; Judith D. Goldberg, New York University
- Hills, Valleys, and Rivers: The Transmission of 2:50 p.m. Raccoon Rabies over an Uneven Landscape— David Wheeler, Emory University; Lance Waller, Emory University
- 3:05 p.m. A Simulation Model for Testing the Effect of Interventions During a Pandemic Influenza Outbreak— * Xiaoping Jin, Centers for Disease Control and Prevention; Hong Zhou, Centers for Disease Control and Prevention; William W. Thompson, Centers for Disease Control and Prevention; Po-Yung Cheng, Centers for Disease Control and Prevention; David K. Shay, Centers for Disease Control and Prevention; Michael Haber, Emory University

3:20 p.m. Floor Discussion

CC-355 C 35

Imputation of Missing Data: Applications and Methods—Contributed

Section on Survey Research Methods, Section on Health Policy Statistics, Biometrics Section

Chair(s): Meena Khare, National Center for Health Statistics

2:05 p.m. Adjusting the German Labor Force Survey for Under-Reporting by Means of Calibrated Imputation— * Hans Kiesl, Institute for Employment Research; Susanne Rässler, Institute for Employment Research

General Program Schedule				
	Themed Session • Applied Session • Presenter			
2:20 p.m.	Not Just Another Multiple Imputation: Practical			
o p	Aspects for Highly Correlated Data— * Lester			
	Curtin, Centers for Disease Control and			
	Prevention; Nathaniel Schenker, National Center			
	for Health Statistics; Jeffrey Hughes, Centers for			
	Disease Control and Prevention; Lori Borrund,			
	Centers for Disease Control and Prevention			
2:35 p.m.	Data Imputation Models for Nontrended Price			
	Data— Kennon Copeland, IMS Health; Boris			
0.50	Brodsky, IMS Health			
2:50 p.m.	Weight Adjustments for Fractional Regression			
	Hot Deck Imputation— Min Hui Paik, Iowa State University; Michael D. Larsen, Iowa State University			
3:05 p.m.	Robust Sequential Regression Imputation			
	Method—❖Irina Bondarenko, University of			
	Michigan; Trivellore E. Raghunathan, University			
	of Michigan			
3:20 p.m.	Imputation of Rental Equivalence in the Consumer			
	Expenditure Interview Survey— Barry Steinberg,			
	Bureau of Labor Statistics; Eric Keil, Bureau of			
	Labor Statistics; David Swanson, Bureau of Labor Statistics; Shirley Tsai, Bureau of Labor Statistics;			
	Garner Thesia, Bureau of Labor Statistics,			
3:35 p.m.	Floor Discussion			
0.00 p.iii.	FIOOI DISCUSSION			

36 CC-355 E

Sampling Design: Methods, Adaptation, Redesign—Contributed

Section on Survey Research Methods

Chair(s): Vincent G. Iannacchione, RTI International

2:05 p.m. Multiple Matrix Sampling: A Review—❖ Jeffrey Gonzalez, Bureau of Labor Statistics; John L. Eltinge, Bureau of Labor Statistics

2:20 p.m. **Estimating Population Proportions Using Link-**Tracing Sampling Designs with Subsampling and Partial Knowledge on Degree Distribution—❖Mike Kwanisai, NORC at the University of Chicago

2:35 p.m. Some Statistical Issues in Adapting Sample Designs for Surveys Requiring Rapid Response— Allison Deal, The University of North Carolina at Chapel Hill; William D. Kalsbeek, The University of North Carolina at Chapel Hill

2:50 p.m. **Optimal 2-Stage Sampling Theory for Business** Customer Satisfaction Surveys— * John Rotondo, AT&T Labs - Research

An Automated Procedure for Forming Contiguous 3:05 p.m. Sampling Units for Area Probability Samples*Bryce Johnson, Westat; Jill M. Montaquila, Westat; Andrew Heller, Westat

GA-The Grand America Hotel

3:20 p.m. Selection of Small and Large Schools in State and County School Surveys— Tonja M. Kyle, Macro International; Pedro J. Saavedra, Macro International; James G. Ross, Macro International

CC-Salt Palace Convention Center

3:35 p.m. Reduction of Sample Areas in the Consumer **Price Index and Consumer Expenditure Survey** Designs— Lawrence Ernst, Bureau of Labor Statistics; William H. Johnson, Bureau of Labor Statistics; William E. Larson, Bureau of Labor Statistics

Special Presentation 4:00 p.m.-5:50 p.m.

37 CC-255 E Introductory Overview Lecture 1: Adaptive Designs and Other Emerging Issues in Clinical Trials—Other

ASA, ENAR, WNAR, IMS, SSC, Committee on Applied Statisticians Organizer(s): Mani Y. Lakshminarayanan, Pfizer Inc.

Chair(s): Inna Perevozskaya, Merck & Co., Inc.

4:05 p.m. Designing Clinical Trials To Evaluate Dynamic Treatment Regimes— Peter F. Thall, The University of Texas M. D. Anderson Cancer Center

4:50 p.m. When Would I Consider Adaptive Design for Late-Stage Development?— Keaven M. Anderson, Merck & Co., Inc.

Floor Discussion

5:35 p.m.

4:05 p.m.

Invited Sessions 4:00 p.m.-5:50 p.m.

38 CC-250 E

Curve Forecasting in Modern Business— Invited

Business and Economics Statistics Section

Organizer(s): Haipeng Shen, The University of North Carolina at Chapel Hill

Chair(s): Hui Zhi, GlaxoSmithKline

Bayesian Forecasting of an Inhomogeneous Poisson Process with Applications to Call Center Data— Jonathan Stroud, University of Pennsylvania; Jonathan Weinberg, University of Pennsylvania; Lawrence D. Brown, University of Pennsylvania

GA-The Grand America Hotel Applied Session Presenter CC-Salt Palace Convention Center Themed Session

4:30 p.m. Interday Forecasting and Intraday Updating of Call **Center Arrivals—** Arrivals— Haipeng Shen, The University of North Carolina at Chapel Hill; Jianhua Z. Huang, Texas A&M University 4:55 p.m. Bayesian Modeling and Forecasting of Intraday Electricity Load and Spot Prices— * Michael S. Smith, University of Melbourne 5:20 p.m. Disc: J. Stephen Marron, The University of North Carolina at Chapel Hill

Floor Discussion 5:45 p.m.

39 CC-355 B

Design and Analysis for Genome-Wide **Association Studies—Invited**

ENAR, Section on Statistics in Epidemiology, Biometrics Section, WNAR Organizer(s): Colin O. Wu, National Heart, Lung, and Blood Institute Chair(s): Jungnam Joo, National Heart, Lung, and Blood Institute

4:05 p.m. Statistical Issues Arising from Analysis of Genome-Wide Case-Control Association Studies— & Gang Zheng, National Heart, Lung, and Blood Institute; Jungnam Joo, National Heart, Lung, and Blood Institute; Colin O. Wu, National Heart, Lung, and Blood Institute; Nancy L. Geller, National Heart, Lung, and Blood Institute

Multistage Sampling for Genetic Studies— 4:30 p.m. *Robert C. Elston, Case Western Reserve University

4:55 p.m. Testing Strategies for Genome-Wide Association Studies: Using the Same Dataset for Screening

and Replication— Christoph Lange, Harvard School of Public Health

5:20 p.m. Interactions in Whole-Genome Association

Studies— * Josephine Hoh, Yale University

Floor Discussion 5:40 p.m.

CC-155 F 40

• First Hitting Time Models and Threshold Regression—Invited

SSC, Biometrics Section

Organizer(s): George A. Whitmore, McGill University Chair(s): George A. Whitmore, McGill University

What Hides Behind the Data?— *Odd O. Aalen, 4:05 p.m. University of Oslo

A Class of Simple Lifetime Regression Models 4:35 p.m. Resulting from First-Hitting Times— Thierry

Duchesne, Laval University

5:05 p.m. Longitudinal Data in Threshold Regression:

> Implementation and Relation to Cox Regression with Time-Varying Covariates— Mei-Ling Ting Lee, The Ohio State University: George A.

Whitmore, McGill University

5:35 p.m. Floor Discussion

CC-255 D 41

The Role of Statistical Standards in Federal Surveys—Invited

Section on Survey Research Methods, Section on Government Statistics, Social Statistics Section

Organizer(s): Pamela D. McGovern, U.S. Census Bureau

Chair(s): Jennifer Madans, National Center for Health Statistics

4:05 p.m. **Evaluation of Prospective Costs and Benefits of** Standards for Statistical Programs—* John L.

Eltinge, Bureau of Labor Statistics

4:30 p.m. **Developing and Implementing Data Quality** Standards at the U.S. Census Bureau—Pamela D. McGovern, U.S. Census Bureau; *David C. Whitford, U.S. Census Bureau; John M. Bushery,

U.S. Census Bureau

4:55 p.m. **Lessons Learned Using Statistical Standards** To Improve/Ensure Data Quality— Arilyn Seastrom, National Center for Education

Statistics

5:20 p.m. Disc: Brian Harris-Kojetin, Office of

Management and Budget

5:40 p.m. Floor Discussion

42 CC-250 F

Collaboration Between Academia, Industry, and **Government in Statistical Sciences—Invited**

SPAIG Committee, Section on Statisticians in Defense and National Security, ENAR

Organizer(s): Morteza Marzjarani, Saginaw Valley State University Chair(s): George Williams, Amgen Inc.

4:05 p.m. The 2007 SPAIG Salary Survey— Michael D. Larsen, Iowa State University; Dianne Anderson, Iowa State University; Janice Larson, Iowa State University

4:30 p.m. Student Recruitment Database— Robert G. Wilkinson, The Lubrizol Corporation

The WPI-NCHS Partnership— Balgobin 4:55 p.m. Nandram, Worcester Polytechnic Institute

Themed Session Applied Session Presenter **CC**-Salt Palace Convention Center GA-The Grand America Hotel 5:20 p.m. How to Compete for the Academe, Industry, and Chair(s): Xu Han, University of Pennsylvania Government (SPAIG) Award?— * Jai W. Choi, 4:05 p.m. Statistical Issues in Detecting Gamma-Ray National Center for Health Statistics; Robert Pulsars—*John Rice, University of California, Starbuck, Wyeth Berkeley 5:45 p.m. Floor Discussion Semiparametric Bivariate Density Estimation with 4:35 p.m. Irregularly Truncated Data— Chad Schafer, Carnegie Mellon University 43 CC-255 B 5:05 p.m. Clustering of Absorption Systems—* Ji Meng Rietz Lecture—Invited Loh, Columbia University 5:35 p.m. Floor Discussion Organizer(s): Tony Cai, University of Pennsylvania Chair(s): Tze Leung Lai, Stanford University 4:05 p.m. Statistical Problems of Gene Mapping— David 46 Siegmund, Stanford University Gerontologic Biostatistics—Invited Section on Statistics in Epidemiology, Biometrics Section, WNAR 5:30 p.m. Floor Discussion Organizer(s): Heather G. Allore, Yale University Chair(s): Heather G. Allore, Yale University 44 CC-255 C 4:05 p.m. Integrating Qualitative and Quantitative Information Challenge Issues on Longitudinal Biomedical in Clinical Epidemiologic Research with Older Data Analysis—Invited **Populations**—**❖** Peter H. Van Ness, Yale Biometrics Section, ENAR, Section on Statistics in Epidemiology, Section University on Health Policy Statistics, WNAR 4:25 p.m. Meta-Analysis at the Individual Level: Synthesis Organizer(s): Annie Qu, Oregon State University of Inferences Across Multiple Gerontological Chair(s): Annie Qu, Oregon State University Databases— * Karen Bandeen-Roche, Johns 4:05 p.m. Does Mis-specification of the Random Effects Hopkins Bloomberg School of Public Health **Distribution Affect Predictions of Random** Multiple Trajectories in Aging Research—& Carl F. 4:45 p.m. Pieper, Duke University of California, San Francisco; John Neuhaus, 5:05 p.m. Disc: Christina Wolfson, McGill University University of California, San Francisco 5:25 p.m. Disc: Brenda F. Kurland, Fred Hutchinson 4:30 p.m. Modeling of Mean-Covariance Structures in Cancer Research Center **Generalized Estimating Equations for Longitudinal** Data— * Jianxin Pan, University of Manchester 5:45 p.m. Floor Discussion 4:55 p.m. Finite Sample Bias Corrections to Sandwich Covariance Estimators for Longitudinal and 47 **Clustered Data**—**❖** John Preisser, The University Land Grant University Ethics (LANGURE): The of North Carolina at Chapel Hill; Bing Lu, Ethical Use of Statistics in Research—Invited Brown University; Bahjat Qaqish, The University of North Carolina at Chapel Hill

45 CC-251 A Probing the Universe with Nonparametric

G. Leroux, University of Washington

Analysis of Clustered Longitudinal Data with

Applications to Clinical Dental Research— * Brian

Methods—Invited IMS, Biometrics Section, Section on Nonparametric Statistics Organizer(s): Christopher Genovese, Carnegie Mellon University

Floor Discussion

Section on Statistical Consulting, Section on Statistical Education Organizer(s): Marcia Gumpertz, North Carolina State University Chair(s): Don Edwards, University of South Carolina 4:05 p.m. The Ethical Use of Statistics in Research— *George P. McCabe, Purdue University 4:30 p.m. Training University Students in Ethical Use of Statistics as Part of the LANGURE Project— *Larry A. Nelson, North Carolina State University Land Grant University Ethics (LANGURE): The 4:55 p.m. Ethical Use of Statistics in Research— Michael Crotty, SAS Institute Inc.

CC-155 B

CC-251 F

5:20 p.m.

5:45 p.m.

Themed Session Applied Session Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

5:20 p.m. Disc: John Gardenier, Retired

5:40 p.m. Floor Discussion

48 CC-251 B

Design- and Model-Based Sampling and Inference—Invited

Section on Statistics and the Environment, Section on Statistics in Epidemiology, Biometrics Section, General Methodology, Section on Survey Research Methods

Organizer(s): Ronald E. McRoberts, USDA Forest Service Chair(s): Gretchen G. Moisen, USDA Forest Service

4:05 p.m. Design-Based, Model-Based, and Model-Assisted Sampling, and Inference in Natural Resources—

Mary Christman, University of Florida

Optimal Spatial Sampling: Probability-Based or 4:30 p.m. Model-Based?—❖Don L. Stevens, Jr., Oregon

State University

4:55 p.m. Design-Based and Model-Based Issues in Natural

Resource Inventories— Ronald E. McRoberts,

USDA Forest Service

5:20 p.m. Disc: Timothy Gregoire, Yale University

5:40 p.m. Floor Discussion

49 CC-259

Missing Information in Health-Related Qualityof-Life Data—Invited

Section on Health Policy Statistics, ENAR, Biometrics Section, WNAR Organizer(s): Shannon E. Allen, Merck & Co., Inc.

Chair(s): Shannon E. Allen, Merck & Co., Inc.

4:05 p.m. Bivariate Normal Frailty Models for Multiple QOL Outcomes— Andrea B. Troxel, University

> of Pennsylvania; Denise A. Esserman, The University of North Carolina at Chapel Hill

The Analysis of Questionnaire Submission Rates in 4:35 p.m.

Longitudinal HRQOL Assessment—❖ Stephanie R. Land, University of Pittsburgh; Marcie W. Ritter, University of Pittsburgh; Sarah Haile, University

of Pittsburgh

The Value of Ancillary Data in Longitudinal Studies 5:05 p.m.

of Health-Related Quality of Life with Informative Dropout— Diane Fairclough, University of Colorado at Denver and Health Services Center;

Mark Jaros, University of Colorado at Denver

and Health Services Center

Floor Discussion 5:35 p.m.

Invited Panels 4:00 p.m.-5:50 p.m.

CC-251 E 50

Issues in Conducting Experiments in Statistical Education—Invited

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Patti Collings, Brigham Young University Chair(s): Patti Collings, Brigham Young University

Panelists: William Harkness, The Pennsylvania State

University

G. Bruce Schaalje, Brigham Young University

Dennis K. Pearl, The Ohio State University

John P. Holcomb, Cleveland State University

5:45 p.m. Floor Discussion

Topic-Contributed Sessions 4:00 p.m.-5:50 p.m.

CC-355 E 51

• © Ethnic Comparisons in Global Health Research—Topic-Contributed

Biopharmaceutical Section, Section on Health Policy Statistics Organizer(s): Kyoungah See, Eli Lilly and Company Chair(s): Yoko Tanaka, Eli Lilly and Company

4:05 p.m. Assessment of Similarity in Dose Responses Between Two Ethnic Populations for Drug Development: A Resampling Approach—

Kyoungah See, Eli Lilly and Company

4:25 p.m. The Application of Adaptive Design in R&D in Japan from a Statistical Point of View— * Hajime

Uno, Kitasato University; Masahiro Takeuchi, Kitasato University; Fumiaki Takahashi, Kitasato

University

4:45 p.m. A Bayesian Approach to Evaluation of Bridging

> Evidence— Hsiao-Hui Tsou, National Health Research Institutes; Chin-Fu Hsiao, National Health Research Institutes; Yu-Yi Hsu, Iowa State University; Jen-pei Liu, National Taiwan University

5:05 p.m. Minority Differences in Cancer Survival on

> Cooperative Group Clinical Trials— Beow Yong Yeap, Massachusetts General Hospital/Harvard Medical School; Marvin Zelen, Harvard School

of Public Health

5:25 p.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

52 CC-250 C

Ranked Set Sampling II—Topic-Contributed

Section on Nonparametric Statistics, Section on Survey Research Methods *Organizer(s): Omer Ozturk, The Ohio State University*

Chair(s): Omer Ozturk, The Ohio State University

4:05 p.m. Optimal Sign Test for One Sample Bivariate
Location Model Using an Alternative Bivariate
Ranked Set Sample—& Hani Samawi, Georgia
Southern University

4:25 p.m. Optimal Allocation for Unbalanced Stratified Ranked Set Sample—& Chris Sroka, The Ohio State University; Elizabeth A. Stasny, The Ohio State University; Douglas Wolfe, The Ohio State University

4:45 p.m. Order-Restricted Randomized Designs for Linear Models Using L1 Norm— Shannon Markiewicz, The Ohio State University; Omer Ozturk, The Ohio State University

5:25 p.m. Rejective Sampling and Conditional Tests from Biased Samples for the Equality of Two Distributions—*Qing Kang, North Dakota State University; Paul I. Nelson, Kansas State University

5:45 p.m. Floor Discussion

53 CC-251 C

● © Consumer Product Risk—Topic-Contributed

Section on Risk Analysis

Organizer(s): Rose Ray, Exponent, Inc. Chair(s): Rose Ray, Exponent, Inc.

4:05 p.m. Sex Differences: Rare Traffic Fatalities Support
Nature over Nurture— Leonard Evans, Science
Serving Society

4:25 p.m. Evaluation of the Effect of ABS in Truck Crashes
Using LTCCS Data— Wai Chan, Exponent,
Inc.; Rose Ray, Exponent, Inc.; Bruce Ketcham,
Exponent, Inc.

4:45 p.m. National Estimates of Nonfatal Consumer
Product Injuries: Surveillance Data from Hospital
Emergency Departments, 1980–2005—* Madhu
Iyer, Exponent, Inc.

5:05 p.m. To Recall or Not To Recall? Statistical Assessment

of Consumer Product Failure Risk—*Ke Zhao,

Exponent, Inc.; Duane Steffey, Exponent, Inc.

5:25 p.m. Disc: Michael Orkin, Exponent, Inc.

5:45 p.m. **Floor Discussion**

54 CC-254 B

Analyzing Time Series Data with Time-Varying Frequencies—Topic-Contributed

Section on Physical and Engineering Sciences, Section on Statistics and the Environment

Organizer(s): Wayne Woodward, Southern Methodist University Chair(s): Henry L. Gray, Southern Methodist University

4:05 p.m. The Application of the Kalman Filter to
Nonstationary Time Series Through Time
Deformation—* Zhu Wang, Fred Hutchinson
Cancer Research Center

4:25 p.m. Time-Frequency Analysis: G(lambda)-stationary Processes—& Huiping Jiang, Columbia University; Henry L. Gray, Southern Methodist University; Wayne Woodward, Southern Methodist University

4:45 p.m. Filtering Analysis for Nonstationary Time Series by Time Deformation— Mengyuan Xu, Southern Methodist University

5:05 p.m. Generalization and Applications of Linear Chirp Stationary Processes— Stephen Robertson, Southern Methodist University

5:25 p.m. Time Transformation Methods for Analyzing
Data with Time-Varying Frequencies, with
Applications— Wayne Woodward, Southern
Methodist University; Henry L. Gray, Southern
Methodist University

5:45 p.m. Floor Discussion

55 CC-255 A

Spatial Statistics: Methods and Applications— Topic-Contributed

IMS, Section on Statistical Graphics, Section on Statistics and the Environment

Organizer(s): Zepu Zhang, The University of Chicago Chair(s): Li Chen, The University of Chicago

4:05 p.m. Exploratory Spatial Data Analysis Using APLE

Statistics— Hongfei Li, The Ohio State University; Catherine A. Calder, The Ohio State University; Noel Cressie, The Ohio State University

University

Statistical Machine Learning and High-

CC-254 A

GA-The Grand America Hotel CC-Salt Palace Convention Center Themed Session Applied Session Presenter

57

Va.	Applied Session Presenter			
4:25 p.m. Statistical Trend Detection of a Global Change Signal in Regional Climate— Airong Cai, University of Illinois at Chicago; Katharine Hayhoe, Texas Tech University; George Tiao, The University of Chicago; Donald Wuebbles, University of Illinois at Urbana-Champaign				
4:45 p.m.	Detection of the Significance of Cool Spot Clusters with Application to the Indiana Colorectal Cancer Study—& Tonglin Zhang, Purdue University			
5:05 p.m.	Spatial Statistical Analysis of Doctors' Prescription Amounts by Region—*Lei Kang, The Ohio State University; Noel Cressie, The Ohio State University; Desheng Liu, The Ohio State University			
5:25 p.m.	Mis-specified Maximum Likelihood Estimates and Spatial Error Models—& Jiehua Chen, Stanford University; Paul Switzer, Stanford University			
5:45 p.m.	Floor Discussion			
Data Mod	CC-254 C Recent Advances in High-Dimensional Reling—Topic-Contributed On Nonparametric Statistics, Section on Physical and Engi-			
neering Science	ces, WNAR			
Organizer(s): Sijian Wang, University of Michigan Chair(s): Jie Peng, University of California, Davis				
4:05 p.m.	Local Multidimensional Scaling for Nonlinear Dimension Reduction, Graph Layout, and Approximity Analysis—* Lisha Chen, Yale University; Andreas Buja, University of Pennsylvania			

University

Floor Discussion

5:45 p.m.

Dimensional Inference—Topic-Contributed IMS, Section on Nonparametric Statistics Organizer(s): Woncheol Jang, University of Georgia Chair(s): Sayan Mukherjee, Duke University 4:05 p.m. Nonparametric Density Estimation in High Dimensions Using the Rodeo— Han Liu, Carnegie Mellon University; John Lafferty, Carnegie Mellon University; Larry Wasserman, Carnegie Mellon University 4:25 p.m. Functional Data Analysis in Lipoprotein Profile Data— *Yehua Li, University of Georgia; Tailen Hsing, The Ohio State University 4:45 p.m. Variable Selection Procedures for Generalized **Linear Mixed Models in Longitudinal Data Analysis**—**♦** Hongmei Yang, North Carolina State University; Daowen Zhang, North Carolina State University; Hao Zhang, North Carolina State University Semiparametric Estimation of Covariance Matrices 5:05 p.m. for Longitudinal Data—* Yichao Wu, Princeton University; Jianqing Fan, Princeton University 5:25 p.m. Characterizing the Function Space for Bayesian **Kernel Models**—❖ Natesh Pillai, Duke University 5:45 p.m. Floor Discussion 58 Bayesian Hierarchical Modeling and Computation—Topic-Contributed Section on Bayesian Statistical Science, WNAR 4:25 p.m. Model-Based Protein Summaries and Differential Organizer(s): Lei Qian, University of California, Los Angeles Label-Free Quantitative Proteomics—❖ Alan Chair(s): Xiao-li Meng, Harvard University Dabney, Texas A&M University 4:05 p.m. Latent Variable Model for Multiple Outcomes with Kernel-Induced Classification Tree and Random 4:45 p.m. Nonignorable Missing Data—❖ Xiaohong Yan, Forest— Guangzhe Fan, University of Waterloo University of California, Los Angeles; W. John 5:05 p.m. A Statistical Perspective on Nonlinear Boscardin, University of California, Los Angeles Dimensionality Reduction and Manifold Learning— Modeling Common Effects of Predictors on Multiple 4:25 p.m. Ann Lee, Carnegie Mellon University **Longitudinal Outcomes**— * Juan Jia, University Some Recent Advances in High-Dimensional Data 5:25 p.m. of California, Los Angeles; Robert E. Weiss, Modeling— * Wenbin Lu, North Carolina State University of California, Los Angeles University; Hao Zhang, North Carolina State

4:45 p.m.

Using Incompatible Gibbs Samplers To Efficiently

Fit Hierarchical Models— Taeyoung Park,

University of Pittsburgh; David van Dyk,

University of California, Irvine

CC-251 D

Themed Session Applied Session **GA**-The Grand America Hotel Presenter CC-Salt Palace Convention Center 5:05 p.m. Bayesian Mixtures for Modeling Correlation—*Lei 60 Qian, University of California, Los Angeles; Statistical Computing and Statistical Graphics Robert E. Weiss, University of California, Los Paper Competition—Topic-Contributed Section on Statistical Computing, Section on Statistical Graphics 5:25 p.m. Disc: Thomas Belin, University of California, Los Organizer(s): John R. Lockwood, RAND Corporation Angeles Chair(s): John R. Lockwood, RAND Corporation 5:45 p.m. Floor Discussion 4:05 p.m. Improved Centroids Estimation for the Nearest Shrunken Centroid Classifier— Sijian Wang, University of Michigan; Ji Zhu, University of 59 CC-250 D Michigan Section on Bayesian Statistics Student Paper 4:25 p.m. Exploratory Model Analysis with R and GGobi— Competition: New Developments in Bioinformatics *Hadley Wickham, Iowa State University and Genetics—Topic-Contributed 4:45 p.m. spBayes: An R Package for Univariate and Multivariate Section on Bayesian Statistical Science Hierarchical Point-Referenced Spatial Models— Organizer(s): Merlise A. Clyde, Duke University Andrew Finley, The University of Minnesota; Chair(s): Donatello Telesca, University of Washington Sudipto Banerjee, The University of Minnesota; Hidden Markov Model for Jointly Modeling Probe 4:05 p.m. Brad Carlin, The University of Minnesota Sequences and ChIP-Chip Microarray Data— 5:05 p.m. A Flexible Variable Selection Algorithm for the Cox ❖ Jonathan Gelfond, The University of North Model with High-Dimensional Data—❖ Alexander Carolina at Chapel Hill; Mayetri Gupta, The Pearson, University of Rochester; Derick R. University of North Carolina at Chapel Hill; Peterson, University of Rochester Joseph G. Ibrahim, The University of North Floor Discussion 5:25 p.m. Carolina at Chapel Hill On Detecting Stabilizing or Divergent Selection 4:25 p.m. Using Patterns of Variation at SNP Loci—◆ Feng 61 Guo, University of Connecticut; Dipak Dey, Open-Ended Questions in Mail, Web, and University of Connecticut; Kent Holsinger, Telephone Surveys—Topic-Contributed University of Connecticut Section on Survey Research Methods, Section on Government Statistics, 4:45 p.m. A Bayesian Integrated Approach for Learning SSC, WNAR, Social Statistics Section **About Renal Clear**—**❖** David Gold, Texas A&M University; Loleta Harris, The University of Chair(s): Roberta Sangster, Bureau of Labor Statistics Texas M. D. Anderson Cancer Center; Kevin 4:05 p.m. Coombes, The University of Texas M. D. Anderson Cancer Center; Bani Mallick, Texas Israel, University of Florida A&M University

5:05 p.m. Using Evolutionary Relationships to Model Correlation in Mixed Effects Models— Hua Guo, University of California, Los Angeles; Robert E. Weiss, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles

5:25 p.m. **Bayesian Multivariate Spatial Models for** Association Mapping in Structured Samples— Meijuan Li, The University of Minnesota; Brad Carlin, The University of Minnesota; Cavan Reilly, The University of Minnesota

5:45 p.m. Floor Discussion

Organizer(s): Don Dillman, Washington State University Effects of Answer Space Size on Responses to Open-Ended Questions in Mail Surveys— Glenn Improving the Quality of Open-End Questions 4:25 p.m. in Mail, Web, and Telephone Surveys— & Don Dillman, Washington State University; Jolene Smyth, Washington State University; Leah M. Christian, The University of Georgia Impact of Presentation Format of Open-Ended 4:45 p.m. Survey Questions on Response Quality— Steven Swinford, Montana State University 5:05 p.m. The Influence of Color and Space Constraints on Responses to Open-Ended Questions in Paper Questionnaires— Virginia Lesser, Oregon State University; Lydia Newton, Oregon State University 5:25 p.m. Disc: Fred Lorenz, Iowa State University

Floor Discussion

5:45 p.m.

CC-250 A

CC-155 D

GA-The Grand America Hotel Themed Session Applied Session CC-Salt Palace Convention Center Presenter

4:35 p.m.

62 CC-355 A Statistical Methods for Chronic Inflammatory **Diseases—Topic-Contributed**

WNAR, ENAR, Section on Health Policy Statistics Organizer(s): Grace Park, University of California, Los Angeles Chair(s): Bin Zhang, Boston University

4:05 p.m. Some Statistical Issues in Rheumatology— Charlie Goldsmith, McMaster University

4:25 p.m. Meta-Analysis of Clinical Trial Safety Data in Rheumatoid Arthritis (RA) and Other Inflammatory Disease— *Yun Chon, Amgen Inc.; Hong A. Xia, Amgen Inc.

4:45 p.m. **Predicting Trends of Radiographic Outcomes** Using Baseline Data—❖ Grace Park, University of California, Los Angeles; Weng-Kee Wong, University of California, Los Angeles; Abdelmonem A. Afifi, University of California, Los Angeles; David A. Elashoff, University of California, Los Angeles; Dinesh Khanna, University of Cincinnati; John T. Sharp, University of Washington; Richard H. Gold, University of California, Los Angeles; Harold E. Paulus, University of California, Los Angeles

Estimating the Effect of Treatment on Rates of 5:05 p.m. Unintended Events in Rheumatoid Arthritis: A Case **History with Caveats—**❖ Mark Lunt, University of Manchester; Daniel H. Solomon, Brigham and Women's Hospital; Deborah P. M. Symmons, University of Manchester; Til

> Stürmer, Brigham and Women's Hospital Disc: Marlene Egger, University of Utah

5:25 p.m. Floor Discussion 5:45 p.m.

Contributed Sessions 4:00 p.m.-5:50 p.m.

63 CC-355 D

Recent Advances in Microarray Data Analysis VI—Contributed

Biometrics Section

Chair(s): James L. Rosenberger, The Pennsylvania State University

4:05 p.m. **Smoothing Spline Mixed Effects Modeling** of Multifactorial Gene Expression Profiles-Brandon Smith, University of Illinois; Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign; Bruce Southey, University of Illinois at Urbana-Champaign

4:20 p.m. **Estimating Absolute Transcript Concentration for** Microarrays Using Langmuir Adsorption Theory—

Min Mo, University of Texas at Arlington

Positive and Negative Association Rules of Gene Coexpression Patterns— Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign; Bruce Southey, University of Illinois at Urbana-Champaign; Younhee Ko, University of Illinois at Urbana-Champaign; Chengxiang Zhai, University of Illinois at Urbana-Champaign

4:50 p.m. Model-Based Background Correction for Illumina Microarray Data—❖ Yang Xie, The University of Texas Southwestern Medical Center at Dallas; Lianghao Ding, The University of Texas Southwestern Medical Center at Dallas; Michael Story, The University of Texas Southwestern Medical Center at Dallas; Guanghua Xiao, The University of Texas Southwestern Medical

Center at Dallas An Efficient Mixture Model Approach To 5:05 p.m. Characterize Gene Pathways Using Bayesian Networks— * Younhee Ko, University of Illinois at Urbana-Champaign; Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign; Chengxiang Zhai, University of Illinois at

Urbana-Champaign

5:20 p.m. Penalties Paid for Ignoring the Correlation Between Intensity Channels in Gene-Expression Analysis— Sang-Hoon Cho, University of Wisconsin-Madison; Michael Kosorok, The University of North Carolina at Chapel Hill; Richard A. Johnson, University of Wisconsin-Madison

ANCOVA-Based Normalization Method for 5:35 p.m. **cDNA Microarrays**—**♦** Natalia Tchetcherina, The Pennsylvania State University; James L. Rosenberger, The Pennsylvania State University

64 CC-155 C

Longitudinal Data Analysis—Contributed

Biometrics Section, Biopharmaceutical Section, Section on Health Policy Statistics

Chair(s): LeAnna G. Stork, Monsanto Company

4:05 p.m. Inference for Intraclass Correlation Models with Yu, National Institutes of Health; Mixia Wu, National Institutes of Health; Aiyi Liu, National

Institutes of Health

Ochorul I	rogram schedule		
•	Themed Session • Applied Session • Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
4:20 p.m.	Comparing Approaches for Predicting Prostate Cancer from Longitudinal Data—& Christopher Morrell, Loyola College in Maryland; Larry J. Brant, National Institute on Aging; Shan L. Sheng, National Institute on Aging	4:35 p.m.	Small-Sample Tests for Efficacy in Fixed-Dose Drug Combination Studies— Melinda M. Holt, Sam Houston State University; Jesse Linder, Southeastern Louisiana University; Ferry Butar Butar, Sam Houston State University
4:35 p.m.	Improving the Efficiency of Estimators for Treatment Effect in Two-Arm Randomized Trials Using Auxiliary Covariates—& Min Zhang, North Carolina State University	4:50 p.m.	Extension of the Rank Sum Test for Clustered Data in Vision Clinical Trials—* Ratna Ramaswamy, Johnson & Johnson PRD; Gary Koch, The University of North Carolina at Chapel Hill; Ram Ganeshan, Statistical Consultant
4:50 p.m. 5:05 p.m.	Moving Block Bootstrap for Analyzing Longitudinal Data—& Hyunsu Ju, The University of Texas Medical Branch; Suojin Wang, Texas A&M University Comparison of Design-Based and Model-	5:05 p.m.	Estimation of Diagnostic Accuracy Measures for a Binocular Test—* Daniel Bonzo, Altus Pharmaceuticals, Inc.; Alexander R. de Leon, University of Calgary
σ.σο μ.π.	Based Methods to Estimate the Cluster Effect Using National Population Health Survey Data (1994–2003)— Sunita Ghosh, University of Saskatchewan; Punam Pahwa, University of	5:20 p.m.	Exposure Adjusted Incidence and Event Rates in Safety Analysis—* Li Chen, Amgen Inc.; Xin He, University of Missouri-Columbia; Lei Lei, Amgen Inc.; Hong A. Xia, Amgen Inc.
5:20 p.m.	Saskatchewan Highly Efficient Longitudinal Designs That Are Robust Against Mis-specification of the Model— Shirley Ortega Azurduy, Maastricht University; Frans Tan, Maastricht University; Martijn P. F. Berger, University of Maastricht	5:35 p.m.	Conditional Confidence Intervals for p1-p2 and p1/p2 Using a Generalized Fisher's Exact Test—Devan V. Mehrotra, Merck & Co., Inc.; *Arthur Roth, Pfizer Inc.
5:35 p.m.	Solving Structured Maximum Likelihood Estimating Equations for Nested Marginal Discrete Longitudinal Models—* Arunava Chakravartty, University of California, Riverside	Studies— Biopharmaceu	CC-355 F of Bayesian Statistics in Phase-I Clinical Contributed tical Section, Biometrics Section i S. Ismaila, McMaster University
in Clinical	CC-255 F stical Issues Related to Categorical Data Trials—Contributed	4:05 p.m.	Maximum Likelihood Methods for Optimal Treatment Schedule-Finding in Clinical Trials— Changying Liu, University of Michigan; Thomas M. Braun, University of Michigan
Chair(s): Rich	tical Section, Biometrics Section ard McNally, Pharmion Corp.	4:20 p.m.	Power and Sample Size for Dose Proportionality Studies—* Ilsung Chang, Johnson & Johnson
4:05 p.m.	Sample Size Determination for Binomial Endpoints Based on the Width of the Confidence Interval in Phase IIA Clinical Trials—* Tai-Tsang Chen, Bristol-Myers Squibb Company; Vishwanath Iyer, Novartis Healthcare Pvt. Ltd; Aparna B.	4:35 p.m.	PRD; Jaya Natarajan, Johnson & Johnson PRD Elicitation of Expert Opinion and Bayesian Fitting of a Logistic Dose-Response Curve—* Les Huson, GNB Limited; Nelson Kinnersley, Roche Products Limited
4:20 p.m.	Anderson, Bristol-Myers Squibb Company Sample Size Estimation for the Phase III Confirmatory Clinical Trials Considering the	4:50 p.m.	A Discussion on Operational Characteristics in Bayesian Clinical Trials—* Xin Zhao, Merck & Co., Inc.
	Uncertainty of the Effect Size—	5:05 p.m.	EWOC Online: An Interactive Web Tool for Dose Escalation in Cancer Phase I Clinical Trials— *Zhiheng Xu, Emory University; Haibin Wang, Emory University; Mourad Tighiouart, Emory University; André Rogatko, Emory University

			Ocheral i rogram Schedule
C	↑ Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
5:20 p.m.	Semiparametric Mixed Analysis on PK/PD Models Using Differential Equations— *Yi Wang, University of Nebraska-Lincoln; Kent Eskridge, University of Nebraska-Lincoln; Shunpu Zhang,	4:05 p.m.	WISDOM for µStat: Web-Based Support for the Analysis of Multivariate Hierarchical Data—& Knut M. Wittkowski, The Rockefeller University
5:35 p.m.	University of Nebraska-Lincoln Floor Discussion	4:20 p.m.	Creating Statistical Web Services Using ASP. NET—*Neil Polhemus, StatPoint, Inc.
ENAR, Section	CC-355 C dinal Data Analysis—Contributed on Health Policy Statistics, Biometrics Section than Tintle, Hope College	4:35 p.m.	Grid Computing— Abdullah Alnoshan, George Washington University; Shmuel Rotenstreich, George Washington University; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University; Adil Rajput, BearingPoint
4:05 p.m.	Pool-Testing Samples with Random Intercept— Peng Chen, University of South Carolina; Joshua M. Tebbs, University of South Carolina	4:50 p.m.	Access Control Model for E-Learning System— Fahad Bin Muhaya, Imam University; Yasmin H. Said, George Mason University
4:20 p.m.	Multiple Parameter Combination of Between- Cluster and Within-Cluster Regression Coefficient Estimates—* Julie A. Stoner, University of Nebraska Medical Center; Brian G. Leroux, University of Washington	5:05 p.m.	A Web-Based Program for Computing Percentage Points of Pearson Distributions— Wei Pan, University of Cincinnati; Haiyan Bai, University of Central Florida; Shengbao Chen, JMW Truss & Components
4:35 p.m.	Combined Linkage and Association Mapping of Quantitative Trait Loci with Missing Genotype Data—Ruzong Fan, Texas A&M University; & Lian Liu, Texas A&M University; Jeesun Jung, Indiana University; Ming Zhong, Texas A&M	5:20 p.m. 5:35 p.m.	minSpline: An R Package for Fitting Splines— Sundar Dorai-Raj, PDF Solutions, Inc.; Spencer Graves, PDF Solutions, Inc. Calculating the Interatomic Distance Distribution from Small-Angle X-Ray Scattering via Curve
4:50 p.m.	University Analyzing Correlated Data with Partial and Small Clusters— * Xianqun Luan, The Children's Hospital of Philadelphia; Avital Cnaan, The Children's Hospital of Philadelphia		Averaging—*Lanqing Hua, Purdue University; Alan Friedman, Purdue University; Chris Bailey- Kellogg, Dartmouth University; Bruce Craig, Purdue University
5:05 p.m.	Using the Power of an F-Test To Compare Designs for Response Surface Models with Random Block Effects—*Sourish Saha, University of Florida; Andre I. Khuri, University of Florida	69 ● Section Contribut	CC-155 En on Statistics in Sports Contributed—
5:20 p.m.	Minimum Hellinger Distance Estimation of Finite Mixtures of Generalized Linear Models—* Jing Shen, IBM T.J. Watson Research Center; Daniel Hall, University of Georgia; Chenhua Zhang, University of Georgia	Section on St	atistics in Sports Chael S. Anderson, Battelle The Distribution and Simulation of Baseball Winning Percentages— Richard Auer, Loyola College in Maryland
5:35 p.m.	Design and Analysis of Multiple Control Arm Studies— * Laura Johnson, National Institutes of Health; Catherine M. Stoney, National Institutes of Health	4:20 p.m.	Assessing Pitcher and Catcher Influences on Base Stealing in Major League Baseball—& Thomas M. Loughin, Simon Fraser University; Jason Bargen, Sprint Nextel
68	CC-250 B	4:35 p.m.	Sorting Algorithms and Sport Tournaments— *Hans Block, KTH, Stockholm, Sweden
Contribute Section on Sta	ware, Software, and Algorithms— ed atistical Computing, Section on Statistical Graphics rteza Marzjarani, Saginaw Valley State University	4:50 p.m.	Batter-Pitcher Matchups in Baseball— & Hal Stern, University of California, Irvine; Adam Sugano, University of California, Los Angeles

Conorari	Togram Schedule			
0	Themed Session ● Applied Session ❖ Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel	
5:05 p.m.	Statistical Analysis in One-Day Cricket— * Wathurawa A. Bandulasiri, Sam Houston State University; Ferry Butar Butar, Sam Houston State University	5:35 p.m.	Small-Area Estimation for a Survey of High School Students in Iowa—* Lu Lu, Iowa State University; Michael D. Larsen, Iowa State University	
5:20 p.m.	A Bayesian Approach to Ranking Women's College Hockey Teams—& Michael Rutter, The Pennsylvania State University, Erie		CC-260 lary Data in Survey Design and	
5:35 p.m.	Bivariate Score Plots— Rafe Donahue, Vanderbilt University; Tatsuki Koyama, Vanderbilt University; Jeff Horner, Vanderbilt	Estimation—Contributed Section on Survey Research Methods, Social Statistics Section Chair(s): David R. Judkins, Westat		
70	University; Cole Beck, Vanderbilt University	4:05 p.m.	Handling Imperfect Overlap Identification in a Dual-Frame Survey—* Jay Clark, Westat; Marianne Winglee, Westat; Benmei Liu, Westat	
70 CC-257 ■ Small Area Estimation: Techniques and Applications—Contributed Section on Survey Research Methods, Social Statistics Section Chair(s): James Knaub, Energy Information Administration		4:20 p.m.	Using the Statistics of Income Division's Sample Data To Reduce Measurement and Processing Errors in Small-Area Estimates Produced from Administrative Tax Records—& Kimberly A. Henry, Internal Revenue Service; Robin Fisher,	
4:05 p.m.	Hierarchical Bayes Small-Area Estimates of Adult Literacy Using Unmatched Sampling and Linking Models—*Leyla Mohadjer, Westat; J. N. K. Rao, Carleton University; Benmei Liu, Westat; Thomas Krenzke, Westat; Wendy VanDeKerckhove, Westat	4:35 p.m.	U.S. Department of the Treasury; Partha Lahiri, University of Maryland An Empirical Evaluation of Various Direct, Synthetic, and Traditional Composite Small-Area Estimators— William Chen, Internal Revenue Service; Kimberly A. Henry, Internal Revenue	
4:20 p.m.	Hierarchical Bayes Modeling of Survey-Weighted, Small-Area Proportions—& Benmei Liu, Westat; Graham Kalton, Westat; Partha Lahiri, University of Maryland	4:50 p.m.	Service; Michael Strudler, Internal Revenue Service Using Administrative Records To Avoid Survey Data Capture Errors—& Tim Withum, Lockheed	
4:35 p.m.	A Simple Computational Method for Estimating Mean Squared Prediction Error in General Small-Area Model— Snigdhansu Chatterjee, The University of Minnesota; Partha Lahiri,	5:05 p.m.	Martin Corporation Optimal Estimators for Two-Phase Sample Designs— Stephen Ash, U.S. Census Bureau	
4:50 p.m.	University of Maryland On Comparison of Different MSE Estimators in Small-Area Estimation—& En-Tzu Tang, University of California, Davis; Jiming Jiang, University of California, Davis		Floor Discussion CC-258 nces and Applications in Causal and Multi-Level Modeling—Contributed	
5:05 p.m.	The Cumulative Distribution Function (CDF) Adjustment Method Applied to Small-Area Estimates of Serious Psychological Distress in the National Survey on Drug Use and Health (NSDUH)—& Jeremy Aldworth, RTI International; Neeraja Sathe, RTI International; Misty Foster, RTI International	Social Statistic		
5:20 p.m.	Expedient Small-Area Estimation via Proportional Odds Ratio Log-Linear Models—& Lei Li, RTI International; Paul S. Levy, RTI International		*Natalya Verbitsky, University of Michigan; Stephen Raudenbush, The University of Chicago	



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Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

4:35 p.m. Can Results from an Observational Study Be

Generalized to a Larger Population? A Study of Pathways from Divorce to Illness—* Bridget Lavelle, Iowa State University; Fred Lorenz, Iowa State University; Jean Opsomer, Iowa State

University

4:50 p.m. Students, Teachers, Schools, and ACT Scores—

 $\ \ \, \ \ \, \ \ \, \ \ \,$ Stephen Ponisciak, Consortium on Chicago

School Research

5:05 p.m. How Well Do Postsecondary Enrichment Programs

Prepare High School Students for College? A
Multilevel Models Approach—* Mack Shelley,
Iowa State University; Florence Hamrick, Iowa
State University; Robyn Johnson, Iowa State

University

5:20 p.m. Multilevel Mixture Modeling Applications—

Tihomir Asparouhov, Muthén & Muthén; Bengt Muthén, University of California, Los Angeles; Shaunna Clark, University of California, Los

Angeles

5:35 p.m. Analyzing the Changes in Repeated Measures

Responses in Financial Literacy Education— *Xin Shi, University of Manchester; Pauline Davis, University of Manchester; Sue Ralph, University of Manchester; Valerie Farnsworth, University of Manchester; Laura Black, University of Manchester; Afroditi Kalambouka, University of

Manchester



MONDAY, JULY 30

Tours

TR05 Crossroads of the West City Tour

CC-South Foyer (200 South Street) 9:00 a.m.-12:00 p.m.

TR06 Kennecott Copper Mine and Great Salt Lake

1:00 p.m.-5:00 p.m. CC-South Foyer (200 South Street)

Committee/Business Meetings & Other Activities

GA-Vienna 7:00 a.m.-8:30 a.m.

Technometrics Management Committee (closed)

Chair(s): Randy R. Sitter, Simon Fraser University

7:00 a.m.-8:30 a.m. GA-Ambassador

SPAIG Committee Meeting (closed)

Chair(s): George Williams, Amgen Inc.

7:00 a.m.-8:30 a.m. **GA-Bagatelle**

Section on Health Policy Statistics Executive Committee Meeting (closed)

Chair(s): Therese Stukel, Institute for Clinical Evaluative Sciences

7:00 a.m.-8:30 a.m. CC-Kenneth Knight Board Room

Committee on Membership Retention and Recruitment Meeting (closed)

Chair(s): Dayanand Naik, Old Dominion University

GA-Sussex 7:00 a.m.-8:30 a.m.

ASA Science Policy Task Force Business Meeting

Chair(s): Virginia A. de Wolf, Consultant

7:00 a.m.-8:30 a.m. **GA-Embassy**

Section on Government Statistics Executive Committee Meeting (closed)

Chair(s): Steve H. Cohen, National Science Foundation

7:00 a.m.-8:30 a.m.

GA-Milano

Survey Review Committee Annual Meeting

Chair(s): Virginia Lesser, Oregon State University

7:00 a.m.-8:30 a.m.

GA-Fontainbleau

Section on Statistical Graphics Executive Committee (closed)

Chair(s): Jeffrey Solka, Naval Surface Warfare Center

7:00 a.m.-8:30 a.m.

GA-Venice

ASA-MAA Joint Committee on Undergraduate Statistics

Chair(s): Robin Lock, St. Lawrence University

7:00 a.m.-8:30 a.m.

GA-Tuscany

Section on Teaching Statistics in the Health Sciences **Executive Committee Meeting (closed)**

Chair(s): Marlene Egger, University of Utah

7:00 a.m.-9:00 a.m.

GA-Versailles

ASA/SIAM Book Series Editorial Board Meeting (closed)

Chair(s): Sara Murphy, Society for Industrial and Applied Mathematics

7:00 a.m.-9:00 a.m.

GA-Provence

CC-252 A, CC-252B

Social Statistics Section Executive Board Meeting (closed)

Chair(s): Jennifer Madans, National Center for Health Statistics

7:00 a.m.-6:00 p.m. **Speaker Work Rooms**

7:00 a.m.-11:00 p.m. **CC-South Foyer**

Cyber Center

7:30 a.m.-8:30 a.m.

GA-Grenoble

Council of Chapters International Science and Engineering Fair (ISEF) Breakfast Meeting (closed)

Chair(s): S. Lynne Stokes, Southern Methodist University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

7:30 a.m.-8:30 a.m.

GA-Belvedere

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Deming Lectureship Committee Business Meeting (closed)

Chair(s): William H. Woodall, Virginia Polytechnic Institute and State University; Nicholas I. Fisher, University of Sydney

7:30 a.m.-9:00 a.m.

GA-Murano Garden Salon

Carnegie Mellon Alumni and Faculty Breakfast (closed)

Organizer(s): Margie Smykla, Carnegie Mellon University

7:30 a.m.-12:00 p.m.

GA-Riviera

Biopharmaceutical Section Executive Committee Meeting (closed)

Chair(s): Brian L. Wiens, Gilead Colorado

7:30 a.m.-6:00 p.m.

CC-South Foyer

JSM Main Registration and ASA Membership/Special Assistance Desk

8:00 a.m.-9:30 a.m.

GA-Audubon

Committee on Applied Statisticians Annual Business Meeting

Chair(s): Mani Y. Lakshminarayanan, Pfizer Inc.

8:00 a.m.-6:00 p.m.

CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

8:00 a.m.-6:00 p.m.

CC-Exhibit Hall C

Career Placement Service

8:00 a.m.-6:00 p.m.

CC-Exhibit Hall D

Exhibitor Lounge

8:00 a.m.-9:00 p.m.

Meeting Within a Meeting (closed, separate registration required)

Chair(s): Martha Aliaga, American Statistical Association

8:30 a.m.-9:30 a.m.

GA-Grenoble

GA-Envoy

Council of Chapters Governing Board Planning and Executive Committee Meeting (closed)

Chair(s): J. Lynn Palmer, The University of Texas M. D. Anderson Cancer Center

8:30 a.m.-9:30 a.m.

GA-Grenoble Side Room

Council of Chapters Chapter Status Meeting (closed)

Chair(s): June Morita, University of Washington

9:00 a.m.-10:00 a.m.

GA-Milano

Transportation Statistics Interest Group Meeting

Organizer(s): Promod Chandhok, Bureau of Transportation Statistics

9:00 a.m.-10:30 a.m.

GA-Sussex

JASA Editors Meeting (closed)

Chair(s): Lisa Hisel, American Statistical Association

9:00 a.m.-5:00 p.m.

CC-South Foyer

ASA Marketplace

9:00 a.m.-6:00 p.m.

CC-Exhibit Hall D

EXPO 2007

9:00 a.m.-6:00 p.m.

CC-Exhibit Hall D

ASA Booth #101

9:30 a.m.-2:00 p.m.

GA-Provence

Council of Chapters Governing Board Meeting (closed)

Chair(s): J. Lynn Palmer, The University of Texas M. D. Anderson

Cancer Center

10:00 a.m.-11:30 a.m.

GA-Savoy

ASA Caucus of Academic Representatives Meeting

Chair(s): Kenneth Koehler, Iowa State University

10:15 a.m.-10:45 a.m.

CC-Various Locations

JSM Coffee Break Sponsored by GfK

10:30 a.m.-1:45 p.m.

GA-Versailles

JSM 2008 Program Committee Meeting

Chair(s): Russell Lenth, The University of Iowa

12:00 p.m.-2:00 p.m.

GA-Vienna

IMS Editors Meeting I (closed)

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

12:00 p.m.-2:00 p.m.

GA-Fontainbleau

IMS Editors Meeting II (closed)

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

12:30 p.m.-2:00 p.m.

GA-Belvedere

Section on Statistical Computing Executive Committee Meeting (closed)

Chair(s): John F. Monahan, North Carolina State University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

12:30 p.m.-2:00 p.m.

GA-Embassy

Committee on Gay and Lesbian Concerns in Statistics Business Meeting

Chair(s): Barry Johnson, Internal Revenue Service

12:30 p.m.-2:00 p.m.

GA-Sussex

Section on Bayesian Statistical Science Executive Business Meeting (closed)

Chair(s): Dipak Dey, University of Connecticut

12:30 p.m.-2:00 p.m.

GA-Tuscany

University of Missouri-Columbia Statistics Luncheon (\$20 fee required at the door)

Organizer(s): Nancy Flournoy, University of Missouri-Columbia

12:30 p.m.-2:00 p.m.

GA-Audubon

Statistics in Medicine Editorial Board Meeting and Luncheon (closed)

Organizer(s): Ralph B. D'Agostino, Sr., Boston University

12:30 p.m.-2:00 p.m.

GA-Grenoble

Journal of Computational and Graphical Statistics Management Committee Meeting (closed)

Chair(s): Dianne Cook, Iowa State University

2:30 p.m.-4:00 p.m.

CC-Kenneth Knight Board Room

Current Index to Statistics Management Committee Meeting (closed)

Chair(s): Duncan Murdoch, University of Western Ontario

3:40 p.m.-4:00 p.m.

CC-254 C

Presentation of 2007 Roger Herriot Award with Reception (open)

Chair(s): Daniel H. Weinberg, U.S. Census Bureau

4:00 p.m.-6:00 p.m.

CC-155 C

CAUSE Activists Meeting (closed)

Organizer(s): Dennis K. Pearl, The Ohio State University

4:30 p.m.-6:00 p.m.

GA-Belvedere

Section on Nonparametric Statistics Executive Committee Meeting (closed)

Chair(s): Pranab K. Sen, The University of North Carolina at Chapel Hill

5:00 p.m.-6:00 p.m.

CC-250 C

Medical Devices Statistics Group Annual Meeting

Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug Administration

5:00 p.m.-6:30 p.m.

CC-Kenneth Knight Board Room

Section on Risk Analysis Business Meeting

Chair(s): Robert Stine, University of Pennsylvania

5:00 p.m.–6:30 p.m.

GA-Milano

Journal of Quality Technology Editorial Review Board Meeting (closed)

Organizer(s): Enrique del Castillo, The Pennsylvania State University

5:00 p.m.-7:00 p.m.

GA-Fontainbleau

Statistical Society of Canada Reception (all are welcome)

Organizer(s): Christian Genest, Université Laval

5:00 p.m.-7:00 p.m.

GA-Savoy

NISS/SAMSI Reception

Organizer(s): Alan Karr, National Institute of Statistical Sciences

5:00 p.m.-8:00 p.m.

GA-Tuscany

Texas A&M University Aggie Reunion (closed)

Organizer(s): Simon Sheather, Texas A&M University

5:30 p.m.–7:00 p.m.

GA-Audubon

Caucus for Women in Statistics Reception

Organizer(s): Tena Katsaounis, The Ohio State University

5:30 p.m.–7:00 p.m. Off Property-Squatters Pub Brewery **Section on Health Policy Statistics Business Meeting/**

Mixer

Chair(s): Therese Stukel, Institute for Clinical Evaluative Sciences

5:30 p.m.-7:00 p.m.

GA-Provence

Christian Statisticians Informal Discussion

Organizer(s): Robert W. Mee, University of Tennessee

5:30 p.m.-7:00 p.m.

GA-Embassy

Section on Statistics in Epidemiology Executive Committee Meeting (closed)

Chair(s): Lisa M. Sullivan, Boston University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

5:30 p.m.-7:00 p.m.

CC-155 B

Biometrics Section Business Meeting

Chair(s): Thomas R. Tenhave, University of Pennsylvania

5:30 p.m.-7:00 p.m.

CC-Ballroom A

The University of North Carolina at Chapel Hill Department of Biostatistics Alumni and Current Faculty and Student Reception

Organizer(s): Michael Kosorok, The University of North Carolina at Chapel Hill

5:30 p.m.-7:00 p.m.

CC-150 A-C

Section on Statistics in Sports Business Meeting

Chair(s): Scott Evans, Harvard University

5:30 p.m.-7:00 p.m.

GA-Venice

Section on Teaching Statistics in the Health Sciences Business Meeting/Mixer

Chair(s): Marlene Egger, University of Utah

5:30 p.m.–7:30 p.m.

GA-Riviera

Section on Quality and Productivity Strategic Planning Meeting (closed)

Chair(s): William Guthrie, National Institute of Standards and Technology

5:30 p.m.–7:30 p.m.

GA-Vienna

Social Statistics Section Business Meeting and Social

Chair(s): Jennifer Madans, National Center for Health Statistics

5:45 p.m.-6:45 p.m.

CC-Ballroom D

ASA President's Invited Speaker Reception (closed, by invitation only)

Chair(s): Mary Ellen Bock, Purdue University

6:00 p.m.–7:30 p.m.

GA-Grand Salon

Google Reception

Organizer(s): Kate Macevicz, Google

6:00 p.m.–7:30 p.m. GA-Venezia Garden Salon

JSM Student Mixer (students only, included in registration fee)

Chair(s): Dayanand Naik, Old Dominion University

6:00 p.m.-7:30 p.m.

CC-151 A-C

GA-Ambassador

CDC & ATSDR Statisticians Open Meeting

Organizer(s): Timothy Green, Centers for Disease Control and Prevention

6:00 p.m.–8:00 p.m.

Section on Survey Research Methods Executive Committee Meeting (closed)

Chair(s): William D. Kalsbeek, The University of North Carolina at Chapel Hill

6:00 p.m.-8:00 p.m.

CC-151 D-F

Korean Statisticians Annual Meeting (closed)

Organizer(s): Sin-Ho Jung, Duke University

6:00 p.m.-8:00 p.m.

GA-Sussex

Eli Lilly Faculty Reception (closed, by invitation only)

Organizer(s): Todd Sanger, Eli Lilly and Company

6:30 p.m.–7:00 p.m. CC-Kenneth Knight Boardroom

Section on Risk Analysis Executive Committee Meeting

Chair(s): Robert Stine, University of Pennsylvania

6:30 p.m.–7:30 p.m. GA-Murano Garden Salon

ASA Long-Time Member Reception (closed, by invitation only)

Chair(s): Dayanand Naik, Old Dominion University

6:30 p.m.–8:30 p.m.

GA-Versailles

University of Washington Alumni Reception

Organizer(s): Xiao-Hua (Andrew) Zhou, University of Washington

6:30 p.m.-9:00 p.m.

GA-Bagatelle

Southern Methodist University Alumni Social (closed)

Organizer(s): Wayne Woodward, Southern Methodist University

7:00 p.m.-9:00 p.m.

CC-254 B

Careers at Merck Research Laboratories (closed, by invitation only)

Organizer(s): Beverly Jacobsen, Merck & Co., Inc.

7:30 p.m.-10:00 p.m.

CC-Ballroom C

Joint Sections on Statistical Computing and Graphics Business Meeting and Mixer

Chair(s): John F. Monahan, North Carolina State University; Jeffrey Solka, Naval Surface Warfare Center

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:30 p.m.-11:00 p.m.

CC-Ballroom A

IMS Presidential Address Reception

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

Continuing Education (Fee Events)

CE 15C

Categorical Data Analysis

8:00 a.m.-12:00 p.m.

CC-151 D-F

ASA

Instructor(s): Charles S. Davis, CSD Biostatistics

CE_16C

Multiple Comparisons and Multiple Tests

8:30 a.m.-5:00 p.m.

CC-151 G

ASA

Instructor(s): Peter Westfall, Texas Tech University

CE_17C

Analysis of Clinical Trials: Theory and Applications

8:30 a.m.-5:00 p.m.

CC-150 G

Biopharmaceutical Section, ASA

Instructor(s): Christy Chuang-Stein, Pfizer Inc.; Alex Dmitrienko, Eli Lilly and Company; Geert Molenberghs, Hasselt University

CE_18C

Temporal Alerting Algorithms for Biosurveillance

8:30 a.m.-5:00 p.m.

CC-150 A-C

Section on Statisticians in Defense and National Security, Section on Risk Analysis, Section on Quality and Productivity, ASA

Instructor(s): Howard S. Burkom, The Johns Hopkins University; David Banks, Duke University

CE_19C

Practical Bayesian Clinical Trial Design

8:30 a.m.-5:00 p.m.

CC-150 D-F

Section on Bayesian Statistical Science, ASA

Instructor(s): Peter F. Thall, The University of Texas M. D. Anderson Cancer Center

CE 20C

Classification and Regression Trees

8:30 a.m.-5:00 p.m.

CC-151 A-C

ASA

Instructor(s): Wei-Yin Loh, University of Wisconsin-Madison

CE_21C

Meta-Analysis: Statistical Methods for Combining the **Results of Independent Studies**

1:00 p.m.-5:00 p.m.

CC-151 D-F

ASA

Instructor(s): Ingram Olkin, Stanford University

Roundtables with Coffee 7:00 a.m.-8:15 a.m.

73 CC-Ballroom D

ASA Council of Chapters Roundtable with Coffee (fee event)

Council of Chapters

Organizer(s): V. A. Samaranayake, University of Missouri-Rolla

Reaching Out to the K-12 Community—

*Jerry Moreno, John Carroll University

74 CC-Ballroom D Section on Statistical Education Roundtable with

Coffee (fee event) Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

ML02 Successful Group Projects— David Zeitler, Grand Valley State University

75 CC-Ballroom D

Section on Statistics and the Environment Roundtables with Coffee (fee event)

Section on Statistics and the Environment

Organizer(s): Andrew B. Lawson, University of South Carolina

ML03 Hierarchical Spatial Models Bridging Ecology and Public Health—❖ Lance Waller, Emory University

ML04 What's the Future for Point Process Modeling in **Ecology?**— Philip Dixon, Iowa State University

CC-Ballroom D Section on Statistics in Epidemiology Roundtable with Coffee (fee event)

Section on Statistics in Epidemiology

Organizer(s): William E. Barlow, Cancer Research and Biostatistics

Building and Using Disease Prediction Models in the ML05 Real World—& Heejung Bang, Cornell University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

77 CC-Ballroom D Section on Statistics in Sports Roundtable with Coffee (fee event)

Section on Statistics in Sports

Organizer(s): Michael Schell, Moffitt Cancer Center

ML06 Moneyball and the NFL: Can It work?— & Keith Schleicher, Capital One

78 CC-Ballroom D Section on Survey Research Methods Statistics Roundtable with Coffee (fee event)

Section on Survey Research Methods Organizer(s): David Marker, Westat

ML07 Web Panels: The Future of Survey Research?— * Karol Krotki, RTI International

79 CC-Ballroom D Section on Teaching Statistics in the Health Sciences Roundtable with Coffee (fee event)

Section on Teaching Statistics in the Health Sciences

Organizer(s): Jodi Lapidus, Oregon Health & Science University

ML08 Teaching Community Collaborators To Understand
Health Research Methods and Results—& Katrina
Ramsey, Northwest Portland Area Indian Health
Board

Special Presentation 8:30 a.m.-10:20 a.m.

80 CC-Ballroom B Introductory Overview Lecture 2: Statistical

Machine Learning and Its Applications in Bioinformatics—Other

ASA, IMS, ENAR, WNAR, SSC, Section on Nonparametric Statistics, Section on Statisticians in Defense and National Security

Organizer(s): Yufeng Liu, The University of North Carolina at Chapel Hill

Chair(s): Yufeng Liu, The University of North Carolina at Chapel Hill

8:35 a.m. Some Recent Advances in Classification: A

Statistical Perspective—*Ji Zhu, University of

Michigan

9:20 a.m. Applications of Statistical Machine-Learning to Modern Biological Datasets—* Jon D. McAuliffe,

University of Pennsylvania

10:05 a.m. Floor Discussion

University of F

Invited Sessions 8:30 a.m.-10:20 a.m.

81 CC-255 B

● ❖ Statistical Methods for Gene Regulatory Networks—Invited

Biometrics Section, ENAR, Section on Statistics in Epidemiology

Organizer(s): Tian Zheng, Columbia University

Chair(s): Ying Wei, Columbia University

8:35 a.m. Bayesian Error Analysis Model for Reconstructing
Transcriptional Regulatory Networks—* Ning
Sun, Yale University; Raymond J. Carroll, Texas
A&M University; Hongyu Zhao, Yale University

9:00 a.m. Studying Coregulation and Inter-regulation of Genes via eQTL Mapping—* Tian Zheng,

Columbia University

9:25 a.m. Self-Correcting Maps of Molecular Pathways—

* Andrey Rzhetsky, Columbia University; Tian Zheng, Columbia University; Chani Weinreb,

Columbia University

9:50 a.m. Using Sequence Information to Predict Gene

Regulation— * Jun S. Liu, Harvard University; Qing Zhou, University of California, Los

Angeles

10:15 a.m. Floor Discussion

82 CC-250 D

Administrative Records and Data Integration— Invited

Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section

Organizer(s): Jeremy Wu, U.S. Census Bureau

Chair(s): Donald B. Rubin, Harvard University

8:35 a.m. **Maintaining Confidentiality in Administrative and Integrated Databases**—Jerome P. Reiter, Duke

University; *Satkartar Kinney, Duke University

9:00 a.m. Synthetic Data for Administrative Record

Applications at LEHD— Feremy Wu, U.S. Census

Bureau; John Abowd, Cornell University

9:25 a.m. Synthetic Data Disclosure Control for American

Community Survey Group Quarters—❖ Rolando Rodríguez, U.S. Census Bureau; Robert H.

Creecy, U.S. Census Bureau

9:50 a.m. Disc: Alan R. Tupek, U.S. Census Bureau

10:10 a.m. Floor Discussion

83 CC-258 Recent Advances in Survival Analysis Beyond Cox Model—Invited

IMS, ENAR, Section on Statistics in Epidemiology, Section on Risk Analysis, Biometrics Section, Biopharmaceutical Section, Section on Physical and Engineering Sciences, WNAR

Organizer(s): Lu Tian, Northwestern University

Chair(s): Lu Tian, Northwestern University

8:35 a.m. Nonproportional Hazards Models for Censored Data— * Zhezhen Jin, Columbia University

9:00 a.m. Semiparametric Accelerated Failure Time Model with Missing Data— Menggang Yu, Indiana University Purdue University Indianapolis

9:25 a.m. Rank Regression, Accelerated Failure Time Model, and Empirical Likelihood— Mai Zhou, University of Kentucky

9:50 a.m. Varying Coefficient Cox Model with Nonparametric Longitudinal Covariates— Jimin Ding, Washington University in St. Louis; Jane-Ling Wang, University of California, Davis

Floor Discussion 10:15 a.m.

CC-260 84

Accreditation of Professional Statisticians— Invited

Section on Statistical Consulting, SSC

Organizer(s): Judith-Anne W. Chapman, Queen's University Chair(s): Ralph G. O'Brien, The Cleveland Clinic

SSC Accreditation: The Canadian Model— 8:35 a.m. ❖ Judith-Anne W. Chapman, Queen's University

9:00 a.m. Academia and the Professional Statistician **Community**—**♦** Mary E. Thompson, University of Waterloo

9:25 a.m. The ASA Consideration of Accreditation—*Mary Batcher, Ernst & Young

9:50 a.m. Disc: Fritz Scheuren, NORC at the University of Chicago

Floor Discussion 10:10 a.m.

85 CC-355 E

Biometrics Editor Invited Session—Invited

WNAR, ENAR, Biometrics Section

Organizer(s): Laurance Freedman, Bar Ilan University; Mike Kenward, London School of Hygiene and Tropical Medicine; Naisyin Wang, Texas A&M University

Chair(s): Geert Molenberghs, Hasselt University

8:35 a.m. Multilist Population Estimation with Incomplete and Partial Stratification— * Jason M. Sutherland, Indiana University Purdue University Indianapolis

9:05 a.m. **Bayesian Hierarchical Spatially Correlated** Functional Data Analysis with Application to Colon Carcinogenesis—

Veera Baladandayuthapani, The University of Texas M. D. Anderson Cancer Center; Bani Mallick, Texas A&M University; Raymond J. Carroll, Texas A&M University; Mee Young Hong, University of California, Los Angeles; Nancy D. Turner, Texas A&M University; Joanne

R. Lupton, Texas A&M University

Bayesian Methods for Predicting Interacting 9:35 a.m. Protein Pairs Using Domain Information—Inyoung Kim, Yale University; Yin Liu, Yale University;

Hongyu Zhao, Yale University

10:05 a.m. Floor Discussion

CC-250 EF 86

Exploring Models Interactively—Invited

Section on Statistical Graphics, Section on Teaching Statistics in the Health Sciences, Section on Statistical Consulting

Organizer(s): Antony Unwin, University of Augsburg Chair(s): Antony Unwin, University of Augsburg

8:35 a.m. Bayesian Information Analysis— Aleks Jakulin, Columbia University; Andrew Gelman, Columbia University

Exploratory Model Analysis: Interactive Graphical 9:00 a.m. Methods for Model Selection and Comparison— Simon Urbanek, AT&T Labs - Research

9:25 a.m. Grammatical Visualization of Statistical Models— Graham Wills, SPSS Inc.; & Chunling Zhang, SPSS Inc.

9:50 a.m. Exploring Models for Clustering Data— Dianne Cook, Iowa State University

10:10 a.m. Floor Discussion

87 CC-155 E

Under the Microscope: Statistical Methods for Molecular Biology—Invited

General Methodology, Biometrics Section, Section on Statistics in Epidemiology, Section on Statistical Computing, Biopharmaceutical Section Organizer(s): Elizabeth H. Slate, Medical University of South Carolina Chair(s): Elizabeth H. Slate, Medical University of South Carolina

8:35 a.m. Efficient Design and Analysis of Genome-Wide **Association Studies**— * Michael Boehnke, University of Michigan

 Applied Session 9:00 a.m. Stochastic Search Gene Suggestion: Bayesians and 9:00 a.m. Optimal Start of Treatment Based on Time-Dependent Covariates— * Judith J. Lok, Harvard Biology Meet Again!— Michael D. Swartz, The School of Public Health; James Robins, Harvard University of Texas M. D. Anderson Cancer Center School of Public Health; Miguel A. Hernan, 9:25 a.m. Statistical Models of Global Transcription Harvard School of Public Health Regulatory Mechanisms in Cancer— * Wei Li, Harvard School of Public Health; & Xiaole S. 9:25 a.m. Estimation of the Effect of Dynamic Treatment Regimes Liu, Dana-Farber Cancer Institute Under Flexible Dynamic Visit Regimes— Andrea Rotnitzky, Universidad Torcuato Di Tella; Liliana 9:50 a.m. Scale-Based Methods in the Analysis of Proteomic Orellana, Universidad de Buenos Aire Data— Timothy Randolph, Fred Hutchinson Cancer Research Center 9:50 a.m. Disc: James Robins, Harvard School of Public Health

10:10 a.m.

CC-Salt Palace Convention Center

Presenter

88 CC-155 F

Recent Development in Econometric Time Series—Invited

Business and Economics Statistics Section Organizer(s): Sung K. Ahn, Washington State University Chair(s): Sung K. Ahn, Washington State University

Floor Discussion

10:15 a.m.

Cointegration Analysis with Mixed Frequency 8:35 a.m. Data— Byeongchan Seong, Chung-Ang University; Sung K. Ahn, Washington State University; Peter Zadrozny, Bureau of Labor **Statistics**

9:00 a.m. Studying Interactions Without Multivariate Modeling—❖ Alain Hecq, University of Maastricht; Gianluca Cubadda, University of Tor Vergata; Franz Palm, University of Maastricht

9:25 a.m. Bayesian Change Point Model for Time Series— Sinsup Cho, Seoul National University; Juwon Kim, Seoul National University; Seungmin Nam, Samsung Fire & Marine Insurance Co., LTD

9:50 a.m. A Unifying Framework for Analyzing Common Cyclical Features in Cointegrated Time Series— Gianluca Cubadda, University of Tor Vergata

10:15 a.m. Floor Discussion

89 CC-255 E Causal Effects of Individualized Treatment Rules— Invited

IMS, Biometrics Section, WNAR

Organizer(s): Mark J. van der Laan, University of California, Berkeley Chair(s): Mark J. van der Laan, University of California, Berkeley

8:35 a.m. Causal Inference in Sequentially Randomized Trials Based on Realistic Individualized Treatment Rules— *Oliver Bembom, University of California, Berkeley

90 CC-251 D

GA-The Grand America Hotel

The Importance of Statistical Reasoning in Law and Legal Science—Invited

Floor Discussion

Committee on Law and Justice Statistics, Section on Nonparametric Statistics, Section on Statistical Consulting

Organizer(s): Joseph L. Gastwirth, George Washington University Chair(s): Weiwen Miao, Macalester College

8:35 a.m. Doctrine, District Courts, and Docketology— *Alan J. Izenman, Temple University; David Hoffman, Temple University

9:00 a.m. Two Percentiles in Court: The Zuni School District Case— * Joseph L. Gastwirth, George Washington University

Verdict on Verdicts: Statistical Measurement of the 9:25 a.m. **Accuracy of Jury Verdicts**—**♦** Bruce D. Spencer, Northwestern University

9:50 a.m. The Effect of Serial Correlation on Statistical Evidence in Legal Cases— Yulia R. Gel, University of Waterloo; Weiwen Miao,

Macalester College; Joseph L. Gastwirth, George Washington University

Floor Discussion 10:15 a.m.

Invited Panels 8:30 a.m.-10:20 a.m.

CC-251 E 91 Implementing GAISE in Our Classrooms—Invited

Section on Statistical Education

Organizer(s): Patti Collings, Brigham Young University Chair(s): Christine Franklin, University of Georgia

Panelists: Carolyn P. Dobler, Gustavus Adolphus College

Carolyn K. Cuff, Westminster College

* E. Jacquelin Dietz, Meredith College

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center Gary Kader, Appalachian State University Chair(s): James Colaianne, J&JPRD Dexter C. Whittinghill, Rowan University 8:35 a.m. Design and Analysis of Analytical Method Transfer Studies—* James Schwenke, Boehringer 10:15 a.m. Floor Discussion Ingelheim Pharmaceuticals, Inc. 8:55 a.m. Design and Analysis of Method Transfer Studies in **Topic-Contributed Sessions** Nonclinical Pharmaceutical Development—*Jinglin Zhong, U.S. Food and Drug Administration; Yi 8:30 a.m.-10:20 a.m. Tsong, U.S. Food and Drug Administration 9:15 a.m. Some Useful Experimental Designs in Method 92 CC-251 A Transfer Experiments—❖ Jyh-Ming Shoung, Section on Health Policy Statistics Student J&JPRD; Stan Altan, J&JPRD Award Winners—Topic-Contributed Total Error-Based Criterion for Analytical Method 9:35 a.m. Section on Health Policy Statistics **Transfer Analyses**—**♦** Eric Rozet, University of Organizer(s): Anirban Basu, The University of Chicago Liege; Walthère Dewe, GlaxoSmithKline Chair(s): Bonnie Ghosh-Dastidar, RAND Corporation 9:55 a.m. Approach To Assess the Equivalence Range for 8:35 a.m. **Evaluating Bias Correction in Weighted** an Analytical Methods Transfer— Rene Kubiak, Proportional Hazards Regression—*Qing Pan, Boehringer Ingelheim University of Michigan; Douglas Schaubel, 10:15 a.m. Floor Discussion University of Michigan 8:55 a.m. Analysis of Longitudinal Data To Evaluate a Policy CC-155 C 94 **Change**—**♦** Benjamin French, University of • • Practical Considerations for Adjustment Washington; Patrick J. Heagerty, University of of Baseline Covariate and Center Effects in Washington Multicenter Clinical Trials—Topic-Contributed 9:15 a.m. Testing for Trends in a Two-State Markov Model Biopharmaceutical Section, ENAR, WNAR with Applications in Smoking Cessation Studies— Organizer(s): Abdul Sankoh, sanofi-aventis Charles Minard, The University of Texas M. D. Anderson Cancer Center; Wenyaw Chan, The Chair(s): Abdul Sankoh, sanofi-aventis University of Texas at Houston; Carol J. Etzel, 8:35 a.m. Exploration of a Treatment-by-Region Interaction The University of Texas M. D. Anderson Cancer in a Clinical Trial Setting: Can the Interaction Center; David Wetter, The University of Texas Be Explained by Clinical Factors?— Cristiana M. D. Anderson Cancer Center Gassmann-Mayer, Johnson & Johnson PRD; 9:35 a.m. Is Newer Always Better? Re-evaluating the Rachel B. Weinstein, Johnson & Johnson PRD; Benefits of Newer Pharmaceuticals— Michael Jesse A. Berlin, Johnson & Johnson PRD Law, Harvard Medical School/Harvard Pilgrim 8:55 a.m. Modeling Response, Interaction, and Subgroup HealthCare; Karen Grépin, Harvard University Analyses: Some Practical Issues—❖ Mohammad **Evaluating Predictive Capacity of Continuous** 9:55 a.m. Huque, U.S. Food and Drug Administration; Biomarkers— * Ying Huang, University of Mohamed Alosh, U.S. Food and Drug Washington; Margaret Pepe, Fred Hutchinson Administration Cancer Research Center; Ziding Feng, Fred 9:15 a.m. Adjusting for Center in the Analysis of Multicenter **Hutchinson Cancer Research Center** Clinical Trials— Valerie Durkalski, Medical Floor Discussion 10:15 a.m. University of South Carolina 9:35 a.m. A Simulation Study on Covariate Adjusted **Models**—**♦** Xiaohong Huang, sanofi-aventis; 93 CC-155 A Abdul Sankoh, sanofi-aventis Design and Analysis of Method Transfer 9:55 a.m. Modeling Longitudinal Count Data with Possibility **Studies in Nonclinical Pharmaceutical** of Dropouts—& Mohamed Alosh, U.S. Food and **Development—Topic-Contributed Drug Administration** Biopharmaceutical Section 10:15 a.m. Floor Discussion Organizer(s): James Schwenke, Boehringer Ingelheim Pharmaceuticals, Inc.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

95 CC-355 C 9:15 a.m. Nonparametric Bayes Local Regression and Variable Selection— * Yeonseung Chung, Analysis of Recurrent Events Data—Topic-The University of North Carolina at Chapel Contributed Hill; David B. Dunson, National Institute of ENAR, Biometrics Section, Section on Physical and Engineering Sciences, **Environmental Health Sciences** Section on Risk Analysis, WNAR, Section on Statistics in Epidemiology 9:35 a.m. A Variable Selection Method for Linear Models Organizer(s): Lei Liu, University of Virginia Using Modified Zellner's Prior—❖ Arun Krishna, Chair(s): Xuelin Huang, The University of Texas M. D. Anderson North Carolina State University; Sujit Ghosh, Cancer Center North Carolina State University; Howard D. 8:35 a.m. Semiparametric Analysis of Correlated Recurrent Bondell, North Carolina State University and Terminal Events— *Yining Ye, Amgen Inc.; 9:55 a.m. A Decision-Theoretic Approach to the Variable John D. Kalbfleisch, University of Michigan; Selection Problem-* Dhruv Sharma, North Douglas Schaubel, University of Michigan Carolina State University; Sujit Ghosh, North Some Aspects of Recurrent Event Modeling— 8:55 a.m. Carolina State University *Edsel A. Pena, University of South Carolina; Floor Discussion 10:15 a.m. Akim Adekpedjou, University of South Carolina; Jonathan Quiton, University of South Carolina 9:15 a.m. A Novel Estimation Method in the Joint Frailty 97 CC-254 C Models of Correlated Survival Data with Section on Bayesian Statistics Student Paper Informative Censoring—*Lei Liu, University of Competition: New Developments in Bayesian Virginia; Xuelin Huang, The University of Texas Nonparametrics—Topic-Contributed M. D. Anderson Cancer Center Section on Bayesian Statistical Science 9:35 a.m. **General Transformation Models for Joint** Organizer(s): Merlise A. Clyde, Duke University **Analysis of Recurrent Events and Terminal** Chair(s): Taeyoung Park, University of Pittsburgh **Event**—❖ Donglin Zeng, The University of 8:35 a.m. **Bayesian Inference for Directional Conditionally** North Carolina at Chapel Hill; Danyu Lin, The Autoregressive Models— Minjung Kyung, University of North Carolina at Chapel Hill North Carolina State University 9:55 a.m. Methods for Modeling the Recurrent Event Mean 8:55 a.m. in the Presence of Time-Varying Covariates and Time-Dependent Effects— Douglas Schaubel,

96 CC-355 F

• © Recent Developments in Bayesian Variable Selection Methods—Topic-Contributed

Section on Bayesian Statistical Science, ENAR, WNAR Organizer(s): Sujit Ghosh, North Carolina State University Chair(s): Dipak Dey, University of Connecticut

University of Michigan

Floor Discussion

Bayesian Variable Selection in Gaussian Process 8:35 a.m. for Cox Models— Naijun Sha, University of Texas at El Paso; Marina Vannucci, Texas A&M University; Mahlet G. Tadesse, University of Pennsylvania

Bayesian Variable Selection in Proportional 8:55 a.m. Hazards Models with Frailties—❖ Zhen Chen, University of Pennsylvania

Pattern Search Optimization with a Treed Gaussian Process Oracle— Matthew Taddy, University of California, Santa Cruz; Genetha A. Gray, Sandia

National Laboratories; Herbert Lee, University of California, Santa Cruz; Robert Gramacy, University of Cambridge; Monica Martinez-Canales, Sandia National Laboratories

9:15 a.m. Mixtures of Polya Trees for Flexible Spatial Frailty Survival Modeling—*Luping Zhao, The University of Minnesota; Timothy E. Hanson, The University of Minnesota; Brad Carlin, The University of Minnesota

9:35 a.m. The Nested Dirichlet Process— Abel Rodriguez, Duke University; Alan E. Gelfand, Duke University; David B. Dunson, National Institute of Environmental Health Sciences

9:55 a.m. Weak Consistency of General Bayesian Kernel Mixture in Density Estimation— *Yuefeng Wu, North Carolina State University; Subhashis Ghoshal, North Carolina State University

10:15 a.m. Floor Discussion

10:15 a.m.

JSM 2007

IMS Presidential Address

Monday July 30, 2007 8:00pm

Convention Center: Ballroom B

IMS President 2006-07, Jim Pitman, will deliver the 2007 Presidential Address on "Open access to professional information".

Also this evening:

- Presentation of the 2007 H C Carver Award Medal
- Presentation of New IMS Fellows
- Announcement of 2008 Special Invited Lectures
- Announcement of Laha Award Recipients

Reception immediately following: everyone is welcome



Jim Pitman, UC Berkeley

JSM 2007

IMS Student Mixer



Tuesday July 31, 2007 5:15-6:45pm

Grand America: Audubon Room

New Members, New Graduates and Students

All members who have joined the IMS during the past two years, all IMS New Graduate members and all IMS student members are encouraged to attend. Appetizers and an open bar will be available.

If you wish to join the IMS but haven't, please come by the reception

where we will have applications available, or you can join online at www.imstat.org.

IMS Membership is free for students.



A previous New Members' Reception, at JSM Minneapolis

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

98 CC-255 F

Applications of Machine Learning and Network Tomography in Statistics—Topic-Contributed

Section on Physical and Engineering Sciences

Organizer(s): David Mease, San Jose State University

Chair(s): Marvin Gruber, Rochester Institute of Technology

8:35 a.m. Making the Best Use of Available Data: The Presence-Only Problem in Ecology—& Gillian Ward, Stanford University; Trevor Hastie, Stanford University

8:55 a.m. An Iterative Algorithm for Extending Learners to a Semisupervised Setting—*Mark Culp, University of Michigan; George Michailidis, The University of Michigan

9:15 a.m. Evidence Contrary to the Statistical View of Boosting—* David Mease, San Jose State University

9:35 a.m. Adversarial Classification— & Bowei Xi, Purdue University; Murat Kantarcioglu, The University of Texas at Dallas; Christopher Clifton, Purdue University

9:55 a.m. A Somewhat General Framework for Active Network Tomography—* Earl Lawrence, Los

Alamos National Laboratory

12:15 p.m. Floor Discussion

99 CC-250 C

ACS Multi-Year Estimates Methodology and Results—Topic-Contributed

Section on Survey Research Methods, Section on Government Statistics, Social Statistics Section, SSC

Organizer(s): Anthony Tersine, U.S. Census Bureau Chair(s): David C. Whitford, U.S. Census Bureau

8:55 a.m. Imbedding Model-Assisted Estimation into ACS
Estimation—*Robert Fay, U.S. Census Bureau

9:15 a.m. Analysis of Variance Estimates from American Community Survey Multiyear Estimates—

* Michael Starsinic, U.S. Census Bureau;
Anthony Tersine, Jr., U.S. Census Bureau

9:35 a.m. Statistical Issues and Interpretation of the American Community Survey's One-, Three-, and Five-Year Period Estimates—& Michael Beaghen, U.S. Census Bureau

9:55 a.m. Disc: John Thompson, NORC at the University

of Chicago

10:15 a.m. Floor Discussion

100 CC-355 D

◆ Recent Developments in Statistical Methodology for Diagnostic Medicine—Topic-Contributed

WNAR, Biometrics Section, ENAR, Section on Health Policy Statistics Organizer(s): Jialiang Li, National University of Singapore Chair(s): Jialiang Li, National University of Singapore

8:35 a.m. Noniterative, Semiparametric, Least-Squared Method of ROC Curve Estimation—*Xiao-Hua (Andrew) Zhou, University of Washington; Liansheng Tang, University of Washington

8:55 a.m. Statistical Methods for Differential Diagnosis of Second Primary Cancers from Metastases—

*Colin B. Begg, Memorial Sloan-Kettering

Cancer Center

9:15 a.m. Design of Diagnostic Accuracy Studies for PPV and NPV—*Jason Fine, University of Wisconsin-Madison; David Steinberg, Tel-Aviv University; Richard Chappell, University of Wisconsin-Madison

9:35 a.m. A Unified Approach to Nonparametric Comparison of Receiver Operating Characteristic Curves for Longitudinal and Clustered Data—Gang Li, University of California, Los Angeles; * Kefei

Zhou, Amgen Inc.

9:55 a.m. Disc: Zhidong Bai, National University of Singapore

10:15 a.m. Floor Discussion

Topic-Contributed Panels 8:30 a.m.-10:20 a.m.

101 CC-254 A

Harnessing the Power of the ASA Archives: Preserving and Accessing ASA's Institutional Documentary Heritage—Topic-Contributed

Committee on ASA Archives and Historical Materials, Committee on Committees, Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): John P. Deley, Energy Information Administration Chair(s): Carol J. Lancaster, Medical University of South Carolina

Melissa Gottwald, Iowa State University

			General Program Schedule
C	Themed Session • Applied Session • Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
	 John P. Deley, Energy Information Administration Ken Williams, Utah State Archives and Records Service 	8:50 a.m.	Sensitivity of Cox Regression to Nonignorable Censoring—& Tao Liu, Brown University; Daniel F. Heitjan, University of Pennsylvania
10:15 a.m.	Floor Discussion	9:05 a.m.	Dealing with Tied Observation in Estimating Survival Function— Jiantian Wang, Kean University
Contribu	ted Sessions 8:30 a.m10:20 a.m.	9:20 a.m.	Test of Fit to a Semiparametric Bivariate Family with Censored Data—❖ Shulamith Gross, Baruch College/CUNY
V—Contri Biometrics Se	ction	9:35 a.m.	Quantile Regression for Censored Point Processes—*Rajeshwari Sundaram, National Institute of Child Health and Human Development; Subhashis Ghoshal, North Carolina State University
8:35 a.m.	mi Altman, The Pennsylvania State University Microarray Gene Expression Analysis of Soybean Genome Using R-Bioconductor—* Jean Roayaei, National Institutes of Health	9:50 a.m.	Multivariate Rank-Order Two-Sample Test for Censored Data: More Intuitive Expression of the Treatment Effect—& Edward Mascha, The Cleveland Clinic
8:50 a.m.	Conjugate Hierarchical Modeling of the Error Variance in Tests for Differential Gene Expression—*Jason Obsorne, North Carolina State University	10:05 a.m.	CUSUMs Based on the Cox Model To Monitor Outcomes at Multicenter Studies—* Pinaki Biswas, University of Michigan; John D.
9:05 a.m.	False Discovery Rate in Microarray Studies— *Moonsu Kang, The University of North Carolina at Chapel Hill	104	Kalbfleisch, University of Michigan CC-255 A
9:20 a.m.	Sparse Partial Least Squares Regression with an Application to the Genome Scale Transcription Factor Activity Analysis—& Hyonho Chun, University of Wisconsin-Madison; Sunduz Keles, University of Wisconsin-Madison	● Congitudinal Data and Survival Data Modeling—Contributed Biometrics Section, Section on Health Policy Statistics Chair(s): Zonghui Hu, National Institutes of Health	
9:35 a.m.	Conservatively Optimal Multiple Testing for Comparative Microarray Experiments—* James Signorovitch, Harvard University	0.33 d.III.	Joint Modeling of Longitudinal and Survival Data Using Penalized Corrected Likelihood—&Bo Hu, The Cleveland Clinic; Liang Li, The Cleveland Clinic; Tom Greene, The Cleveland Clinic
9:50 a.m. 10:05 a.m.	Improved Significance of Microarrays— \$\\$Shunpu Zhang, University of Nebraska-Lincoln Comparison of Meta-Analytical Approaches for	8:50 a.m.	Analysis of Longitudinally Measured Multivariate Biomarkers and Left-Censored Data—& Ghideon S. Ghebregiorgis, University of Pittsburgh; Lisa
10.03 a.m.	Gene Expression Profiling—* Heather Adams, University of Illinois at Urbana-Champaign; Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign; Bruce Southey, University of Illinois at Urbana-Champaign	9:05 a.m.	Weissfeld, University of Pittsburgh Modeling Longitudinal Biomarker Data with Multiple Assays That Have Different Known Detection Limits— Paul Albert, National Cancer Institute
	CC-155 D rsis of Censored Data and Cox's Model—	9:20 a.m.	Regression Analysis of Multivariate Recurrent Event Data with Time-Varying Covariate Effects— *Liang Zhu, University of Missouri-Columbia
Contribute Biometrics Sec Chair(s): Jian 8:35 a.m.		9:35 a.m.	Analysis of Longitudinally Measured, Left-Censored Biomarkers of Severe Sepsis with Dropout, and Death—&M. Abdus Sattar, University of Pittsburgh; Lisa Weissfeld, University of Pittsburgh

Applied Session

Presenter

CC-Salt Palace Convention Center

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9:50 a.m. Semiparametric Joint Modeling of Longitudinal and Time-to-Event Data Using P-Spline: A Penalized **Likelihood Approach**—**❖** Wen Ye, University of Michigan; Xihong Lin, Harvard School of Public Health; Jeremy Taylor, University of Michigan

10:05 a.m. Joint Analysis of Multiple Longitudinal Outcomes and a Time-to-Event Using a Nonlinear Latent University of Michigan; Helene Jacqmin-Gadda, INSERM, U875; Jeremy Taylor, University of Michigan

105 CC-155 B

Statistical Issues in Oncology Trials— Contributed

Biopharmaceutical Section, Biometrics Section Chair(s): Dennis Cosmatos, Wyeth

8:35 a.m. Modified Simon's Two-Stage Design with a Control **Group**— Sunil K. Dhar, New Jersey Institute of Technology; Farid Kianifard, Novartis Pharmaceuticals; Michael Chen, TCM Groups, Inc.

8:50 a.m. Censored Data Within Phase III Oncology Studies Using Independent Radiology Review (IRC) Assessments— Pralay Mukhopadhyay, Bristol-Myers Squibb Company; Thomas Kelleher, Bristol-Myers Squibb Company

9:05 a.m. **Estimate of Treatment Effect with Adjustment** for Post-Discontinuation Treatment Resumption and Crossover and Other Therapies in Oncology Clinical Trials— Shengyan Hong, Eli Lilly and Company; Yanping Wang, Eli Lilly and Company

9:20 a.m. A Two-Stage Multinomial Randomized Selection Design in Phase II Oncology Trials—
\$\times Zhiping\$ Sun, Merck & Co., Inc.

9:35 a.m. An Adaptive Two-Stage Design for Active-Controlled Phase II Oncology Trial - * Xiaoming Li, sanofi-aventis

Optimal Three-Outcome Designs for Screening 9:50 a.m. Trials of New Agents—❖ Vandana Mukhi, New York University; Yongzhao Shao, New York University

A Hybrid of Traditional Design and Isotonic 10:05 a.m. Regression Method To Find MTD in Phase I Cancer Clinical Trials— Robert Bigelow, sanofi-aventis; Chunpeng Fan, University of Wisconsin-Madison; Richard Wu, sanofi-aventis; Hui Quan, sanofi-aventis

106 CC-355 B

Mixed Effect Models and Missing Data— Contributed

ENAR, Biometrics Section

Chair(s): Matthew Gurka, University of Virginia

A Pattern Mixture Model To Analyze Longitudinal 8:35 a.m. Quality-of-Life Data with Nonignorable Dropout— Qinfang Xiang, Endo Pharmaceuticals; Suna Barlas, Endo Pharmaceuticals

Likelihood Ratio Hypothesis Testing in the 8:50 a.m. Presence of Incomplete Data— Sergey Tarima, Medical College of Wisconsin; Albert Vexler,

National Institutes of Health **Principal Component Analysis for Multivariate Binary** 9:05 a.m.

Data— Seokho Lee, Texas A&M University 9:20 a.m. Overdispersion in Multilevel Correlated Data—

Trent Lalonde, Arizona State University; Jeffrey R. Wilson, Arizona State University

9:35 a.m. Multiple Imputation Based on Functional Principal Components Analysis for Sparse Longitudinal Data—❖Szu-Ching Tseng, University of California, Davis; Xiaowei Yang, University of California, Davis; Hao Zhang, University of California, Davis

9:50 a.m. The Inclusion of Covariate Information in a Random Effects Agreement Model— * Kerrie Nelson, University of South Carolina; Don Edwards, University of South Carolina

10:05 a.m. Maximum Likelihood Methods for Nonignorable Missing Data—*Yan Zhou, University of Michigan; Roderick J. Little, University of Michigan; John D. Kalbfleisch, University of Michigan

107 CC-255 D

Random Matrix Theory and High-Dimensional Inference—Contributed

IMS, Biometrics Section

Chair(s): Lisha Chen, Yale University

Effect of Mean on Variance Function Estimation 8:35 a.m. in Nonparametric Regression—*Lie Wang, University of Pennsylvania; Lawrence D. Brown, University of Pennsylvania; Tony Cai, University of Pennsylvania; Michael Levine, Purdue University

The Largest Root Test in Multivariate Analysis: 8:50 a.m. Nonasymptotic Accuracy of the Tracy-Widom Approximation— * Iain Johnstone, Stanford University

Themed Session Applied Session Presenter CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:05 a.m. Statistical Eigen-Inference from Large Wishart Matrices— Raj Rao, Massachusetts Institute of Technology

9:20 a.m. New Optimality Test for Branch-and-Bound-Based Comprehensive Subset Search— *Xuelei Ni, Kennesaw State University; Xiaoming Huo, Georgia Institute of Technology

9:35 a.m. **High-Dimensional Classification Using Features** Annealed Independence Rule—❖ Yingying Fan, Princeton University; Jianqing Fan, Princeton University

9:50 a.m. On the Minimax Risks for Estimation of a Location Parameter from Sums— Mokshay Madiman, Yale University; Andrew Barron, Yale University; Abram Kagan, University of Maryland; Tinghui Yu, University of Maryland

Floor Discussion 10:05 a.m.

Contributed

108 CC-259 Nonparametric Statistics and Mixture Models—

IMS, Section on Nonparametric Statistics

Chair(s): Zepu Zhang, The University of Chicago

8:35 a.m. Set and Set Properties Estimation— Bruno Pelletier, University Montpellier II; Gerard Biau, University Montpellier II; Benoit Cadre, University Montpellier II

8:50 a.m. Distribution Theory of Order Statistics of Concomitants Subsets and Applications— * Ke Wang, The Ohio State University; Haikady Nagaraja, The Ohio State University

9:05 a.m. Differentiated Logdensity Approximants— Serge Provost, The University of Western Ontario

9:20 a.m. On a Grouping Method for Constructing Mixed Orthogonal Arrays— Chung-yi Suen, Cleveland State University

9:35 a.m. Labeling Issue in Finite Mixture Model: A Frequentist View— Daeyoung Kim, The Pennsylvania State University; Bruce G. Lindsay, The Pennsylvania State University

9:50 a.m. Using Copula To Study Dependence in Mixed Distributions— Magdalena Niewiadomska-Bugaj, Western Michigan University

10:05 a.m. Floor Discussion 109 CC-254 B

Bayesian Case Studies—Contributed

Section on Bayesian Statistical Science

Chair(s): Peng Sun, Merck & Co., Inc.

8:35 a.m. **Bayesian Real-Time Model for Ovulation**

Prediction—**❖** Lemuel Moye, University of Texas

School of Public Health

8:50 a.m. Bayesian Multiple Outcomes Models: Benefits and

Challenges—**❖** Sally W. Thurston, University of Rochester; David Ruppert, Cornell University

9:05 a.m. Analyzing Pressure Ulcer Development of 36

> Nursing Homes Using Bayesian Hierarchical Modeling—❖ Jing Zhang, University of Missouri-Columbia; Zhuoqiong (Chong) He, University of

Missouri-Columbia

9:20 a.m. Application of Bayesian Analysis in Review of

Adverse Event for Product Quality Issues— *Harry Yang, MedImmune, Inc.; Lanju Zhang,

MedImmune, Inc.; Iksung Cho, MedImmune, Inc.

Student W Monday, July 30 6:00 p.m.-7:30 p.m. The Grand America Hotel, Venezia Garden Salon

	Thomas Cassian Annied Cassian A Drasanter	CC Calt Dalage	Convention Contact CA The Crond America Hetal
•	Themed Session ● Applied Session ❖ Presenter	CC-Sait Palace	Convention Center GA-The Grand America Hotel
9:35 a.m.	Bayesian Analysis of Surveillance Data and Meteorological Data for Detection of Aerosol Releases of B. Anthracis Spores— William Hogan, University of Pittsburgh; Garrick	8:35 a.m.	Exact Properties of a New Test and Other Tests— * Jie Peng, University of Louisiana at Lafayette; Kalimuthu Krishnamoorthy, University of Louisiana at Lafayette
	Wallstrom, University of Pittsburgh; Gregory F. Cooper, University of Pittsburgh; Michael Wagner, University of Pittsburgh; Jean-Marc Depinay, University of Pittsburgh	8:50 a.m.	On a Moment-Based Test for Normality—* Yihao Deng, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne
9:50 a.m.	Hierarchical Bayesian Markov Switching Models with Application to Predicting Spawning Success of Shovelnose Sturgeon—& Ginger Davis, University of Virginia; Scott Holan, University of Missouri-Columbia; Mark Wildhaber, U.S. Geological Survey	9:05 a.m.	Testing of Hypothesis of a Structured Mean Vector for Multilevel Multivariate Data with Structured Correlations on Repeated Measurements— * Anuradha Roy, The University of Texas at San Antonio; Ricardo Leiva, F.C.E. Universidad Nacional de Cuyo
10:05 a.m.	Floor Discussion	9:20 a.m.	Resampling-Based Multiple Testing Procedure— Nasrine Bendjilali, Lehigh University; Wei- Min Huang, Lehigh University
110 CC-251 F Nonparametric Testing and Model Validation— Contributed		9:35 a.m.	On an Efficient Algorithm for Boundary Detection— * Tsung-Lin Cheng, National Changhua University of Education
Section on Nonparametric Statistics		9:50 a.m.	A Geometric Feasible Direction Algorithm
8:35 a.m.	A Generalized Test Statistic for Multinomial Goodness- of-Fit— Sunil Mathur, University of Mississippi	7.00 d.m.	for Large-Scale Optimization with 11 Norm Constraint—* Jian Zhang, Purdue University
8:50 a.m.	Model-Checking in Errors-in-Variables Regression— *Weixing Song, Kansas State University	10:05 a.m.	Impact of Censoring on Inference for the Regression Coefficient in a Bivariate Normal Model—&Richard Linder, Ohio Wesleyan University
9:05 a.m.	A Lack-of-Fit Test for Partially Linear Models—&Chin- Shang Li, St. Jude Children's Research Hospital	110	
9:20 a.m.	Robust and Powerful Two-Sample Semiparametric Tests—* Zhong Guan, Indiana University South Bend; Hongyu Zhao, Yale University	Co. ali al Malla adala anti Canaluila da	
9:35 a.m.	A Modified Mood's Rank Test for Comparing Two Crossing Distributions—& Michael P. Anderson, Kansas State University	Chair(s): Ern 8:35 a.m.	on the Number of Clusters in a Dataset—*Ahmed Albatineh, Nova Southeastern University
9:50 a.m.	Goodness-of-Fit Tests for Multinomial Logistic Regression—*David Hosmer, University of Massachusetts Amherst; Morten W. Fagerland, Ullevål University Hospital; Anna M. Bofin,	8:50 a.m.	Assessing Statistical Spatial Performance: An Application in Archaeology— *Yuemei Wang, Emory University; Lance Waller, Emory University; Zev Ross, ZevRoss Spatial Analysis
10:05 a.m.	Norwegian University of Science and Technology Model Credibility Indices and Information Criteria—* Jiawei Liu, Georgia State University; Bruce G. Lindsay, The Pennsylvania State University	9:05 a.m.	Mining Semantic Co-Location Patterns with Clustering Techniques—& Bin Zhang, IBM China Research Laboratory; Wen Jun Yin, IBM China Research Laboratory; Jin Dong, IBM China Research Laboratory; Ming Xie, IBM China
Contribut Section on Sta	CC-251 C Time Series, and Image Analysis I— ed atistical Computing, Section on Statistical Graphics, IMS ne Billard, University of Georgia	9:20 a.m.	Research Laboratory Spatial Modeling for Large Multivariate Environmental Data: Advancing Methods and Applications—* Sudipto Banerjee, The University of Minnesota; Andrew Finley, The University of Minnesota

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center 9:35 a.m. A Multivariate Semiparametric Bayesian Spatial Modeling Framework for Hurricane Surface Wind Control and Prevention Fields— Brian Reich, North Carolina State 10:05 a.m.

9:50 a.m. Maximum Likelihood for Spatially Correlated Discrete Data— Lisa Madsen, Oregon State University

University; Montserrat Fuentes, North Carolina

10:05 a.m. **Edge Correction for Exact Tests on Nearest-Neighbor Contingency Tables for Testing Spatial** Segregation— & Elvan Ceyhan, Koc University

113 CC-355 A

Methods for and Analyses of Disease Surveillance Data—Contributed

State University

Section on Statistics in Epidemiology, Section on Health Policy Statistics Chair(s): Kiros Berhane, University of Southern California

Power Study of a Semiparametric Cluster 8:35 a.m. Detection Method— Shihua Wen, University of Maryland; Benjamin Kedem, University of Maryland

8:50 a.m. The Relationship Between the Recurrence Interval and Time-to-Signal Properties of Surveillance Schemes— Shannon Fraker, Virginia Polytechnic Institute and State University; William H. Woodall, Virginia Polytechnic Institute and State University; Shabnam Mousavi, The Pennsylvania State University

9:05 a.m. Using Administrative Data To Improve Sample **Design and Estimation: Assaults Requiring** Emergency Department Visits in New York City— Kevin Konty, New York City Department of Health and Mental Hygiene; Catherine Stayton, New York City Department of Health and Mental Hygiene; Jingsong Lu, New York City Department of Health and Mental Hygiene

Peak-Detection in Online Influenza Monitoring— 9:20 a.m. Eva Andersson, Göteborg University; Marianne Frisén, Göteborg University; David Bock, Astra Zeneca

9:35 a.m. Variability of Serfling's Estimator for Excess Mortality— Al Ozonoff, Boston University; Xiaopeng Miao, Boston College

9:50 a.m. A Robust Regression Model for Estimating Influenza-Associated Deaths in 122 Cities' Mortality Data—❖ Po-Yung Cheng, Centers for Disease Control and Prevention; William W. Thompson, Centers for Disease Control and

Prevention; David K. Shay, Centers for Disease

Evaluation of Multiple Imputation in a Vaccine Immunogenicity Trial— & Elizabeth Zell, Centers for Disease Control and Prevention; Michela Baccini, University of Florence; Constantine E. Frangakis, The Johns Hopkins University; Fan Li, Harvard Medical School; Fabrizia Mealli, University of Florence; Brian D. Plikaytis, Centers for Disease Control and Prevention; Charles E. Rose, Centers for Disease Control and Prevention; Donald B. Rubin, Harvard University

CC-250 A 114

Advances in Latent Class and Multivariate Modeling of Survey Data—Contributed

Section on Survey Research Methods, Section on Statistics and Marketing Chair(s): Keith Rust, Westat

8:35 a.m. Structural Equation Models for Item Parceling— ❖ Joseph Olsen, Brigham Young University

8:50 a.m. Using Factor Analysis and Cronbach's Alpha To Ascertain Relationships Between Questions of a Dietary Behavior Questionnaire— & Eric Grau, Mathematica Policy Research, Inc.

9:05 a.m. Randomization-Based Inference About Latent Variables in Classical Test Theory for a Clustered Sample— * Tiandong Li, Westat; Robert Mislevy, University of Maryland

9:20 a.m. Hierarchical Linear Modeling for Complex Survey Data with Unequal Probability of Selection Using HLM 6— Frank Jenkins, Westat; Hyunshik Lee, Westat; Pam Broene, Westat

9:35 a.m. A Methodology to Fit Hierarchical Logistic Models for Data from Complex Sampling Designs— Prabhu Bhagavatheeswaran, Bristol-Myers Squibb Company; Ian Harris, Southern Methodist University

Post-Stratification with Optimized Effective 9:50 a.m. Base: Linear and Nonlinear Ridge Regression **Approach**—**♦** Stan Lipovetsky, GfK Custom Research North America

Robustness of Latent Class Measurement Error 10:05 a.m. **Models**—❖ Brian Meekins, Bureau of Labor Statistics; Daniell Toth, Bureau of Labor **Statistics**

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

115 CC-250 B

Nonresponse and Attrition Bias in Survey Data— Contributed

Section on Survey Research Methods

Chair(s): Virginia Lesser, Oregon State University

8:35 a.m. An Analysis of Nonresponse Bias Resulting from Nonresolution of Telephone Numbers, Eligibility Screener Nonresponse, and Interview Nonresponse for the National Immunization Survey—

*Benjamin Skalland, NORC at the University

*Benjamin Skalland, NORC at the University of Chicago; Robert Montgomery, NORC at the University of Chicago; Phillip Smith, Centers for Disease Control and Prevention

8:50 a.m. Assessing the Effect of Government Frame
Refinement on Collecting Establishment Data for
the National Compensation Survey—& Glenn
Springer, Bureau of Labor Statistics

9:05 a.m. A Comparison of Level of Effort and Benchmarking Approaches for Nonresponse Bias Analysis of an RDD Survey—* Daifeng Han, Westat; David Cantor, Westat

9:20 a.m. The Impact of Refusal Conversion on Survey
Response and Error—* Martin Barron, NORC
at the University of Chicago; Karen Wooten,
Centers for Disease Control and Prevention

9:35 a.m. Designing Longitudinal Studies of Mobile Populations Such as Military Populations—

Shelton Jones, RTI International; Jeniffer Iriondo-Perez, RTI International; Cynthia Bland, RTI International; Robert Bray, RTI International; Janice Brown, RTI International; Michael Pemberton, RTI International

9:50 a.m. Floor Discussion

116 CC-251 B

Estimating Mortality and Migration— Contributed

Social Statistics Section

Chair(s): Dawn V. Nelson, U.S. Census Bureau

8:35 a.m. Scepticism About The Lancet Surveys on Iraqi Mortality— David Kane, Kane Capital Management

8:50 a.m. Estimating Conflict-Related Mortality in Timor-Leste, 1974-1999: A Comparative Review of Demographic and Statistical Estimation Methods— *Romesh Silva, Human Rights Data Analysis Group; Patrick Ball, The Benetech Initiative 9:05 a.m. Life Table Forecasting with the Gompertz

Distribution—❖ Peter Pflaumer, FH Kempten

9:20 a.m. Methods of Estimating Internal Migration in the

Undocumented Immigrant Population of the United States—& Christopher J. Campbell, U.S. Department of Homeland Security; Michael D. Hoefer, U.S. Department of Homeland Security; Nancy F. Rytina, U.S. Department of Homeland

Security

9:35 a.m. An Integrated Approach to Address Immigration
Data Quality Problems: Sampling and Archival
Research—* MacReadie Barr, U.S. Department

of Homeland Security

9:50 a.m. Status Upgrading: Immigrant Naturalization and

Occupational Change Revisited— Derekh Cornwell, Office of Immigration Statistics; Nancy F. Rytina, U.S. Department of Homeland Security; Gary Huang, Office of Immigration

Statistics

10:05 a.m. Internal Migration of Refugee Adjustments of Status:

An Application of Logistic Modeling—*Kelly Jefferys,

U.S. Department of Homeland Security

Do You Need a Break?

Have a cup of coffee courtesy of GfK. Coffee will be available outside technical sessions rooms on all convention center levels Monday between 10:15 a.m. and 10:45 a.m. Enjoy a refreshing cup of coffee between your morning sessions.

Thank you GfK!



Invited Sessions 10:30 a.m.-12:20 p.m.

CC-355 F 117

• Advanced Modeling and Imaging Endpoints in Applied Oncology Statistics—Invited

Committee on Applied Statisticians, ENAR, Section on Statistics in Epidemiology, Biometrics Section, Biopharmaceutical Section

Organizer(s): Kelly H. Zou, Harvard Medical School Chair(s): Mani Y. Lakshminarayanan, Pfizer, Inc.

Absolute Risk Models: Applications and Validation— 10:35 a.m.

Mitchell H. Gail, National Cancer Institute

11:00 a.m. Imaging as Biomarker in Clinical Trials—

Constantine Gatsonis, Brown University

11:25 a.m. Some Statistical Issues with DCE-MRI

> Reproducibility Studies in Oncology— * William L. Mietlowski, Novartis Pharmaceuticals; Yuhui Ma, University of Medicine and Dentistry of New Jersey; Theodore C. Pellas, Novartis Pharmaceuticals; Ching-Ray Yu, Rutgers University

11:50 a.m. Disc: Elizabeth B. Claus, Yale University

12:10 p.m. Floor Discussion

118 CC-255 D

• © Recent Advances In Functional Data Analysis And Nonparametric Estimation —Invited

Section on Physical and Engineering Sciences, Biometrics Section, Section on Nonparametric Statistics, Section on Statisticians in Defense and National Security

Organizer(s): Yuedong Wang, University of California, Santa Barbara

Chair(s): Yuedong Wang, University of California, Santa Barbara

10:35 a.m. A Multiresolution Approach to Time and Image Warping—❖ Bernard W. Silverman, St. Peter's

College

Penalized Splines: Asymptotics with Increasing 11:05 a.m.

Number of Knots and Equivalent Kernels—*David

Ruppert, Cornell University; Yingxing Li,

Cornell University

11:35 a.m. **Bayesian Curve-Fitting and Functional Data**

Analysis in Neurophysiology—❖ Robert E. Kass,

Carnegie Mellon University

12:05 p.m. Floor Discussion 119 CC-155 B

Collection and Assessment of Safety Data in a New Drug Development Program—Invited

Biopharmaceutical Section, Committee on Applied Statisticians, ENAR, Section on Risk Analysis, Section on Health Policy Statistics, Biometrics Section Organizer(s): Guowen (Gordon) Sun, sanofi-aventis; Hui Quan, sanofi-aventis Chair(s): Guowen (Gordon) Sun, sanofi-aventis

10:35 a.m. A Triage Approach to Evaluating Safety Incorporating Frequentist and Bayesian Methods-*A. Lawrence Gould, Merck & Co., Inc.

Assessment of Safety Data in a New Drug 11:00 a.m. Development Program: Some Points to Consider— *Weichung J. Shih, University of Medicine and Dentistry of New Jersey; Hui Quan, sanofi-aventis

11:25 a.m. Safety First: Managing Patients' Safety and Mitigating Products' Risks—& Christy Chuang-Stein, Pfizer Inc.

11:50 a.m. Disc: Judith D. Goldberg, New York University

12:10 p.m. Floor Discussion

120 CC-255 C

Statistics in Genomics and Proteomics—Invited

Biometrics Section, WNAR, Biopharmaceutical Section Organizer(s): Huixia Wang, North Carolina State University Chair(s): Huixia Wang, North Carolina State University

10:35 a.m. A Method for the Detection of Alternative Splicing from Exon Array Data— * Terence Speed, University of California, Berkeley

11:00 a.m. Statistical Analysis of Histone Acetylation— Ping Ma, University of Illinois

Quantifying Protein: Reverse-Phase Protein 11:25 a.m. **Arrays**— * Keith Baggerly, The University of Texas M. D. Anderson Cancer Center

11:50 a.m. Statistical Design of Microarrays and Multiple Testing of Gene Expression Data—❖ Jason C. Hsu, The Ohio State University

12:15 p.m. Floor Discussion

Applied Session

Presenter

CC-257

CC-Salt Palace Convention Center

GA-The Grand America Hotel

121 Optimal Transformations —Invited

IMS, General Methodology

Organizer(s): Anirban Dasgupta, Purdue University Chair(s): Anirban Dasgupta, Purdue University

10:35 a.m. A Mean-Matching, Variance-Stabilizing Transform Approach to Nonparametric Regression in Exponential

Families— Tony Cai, University of Pennsylvania

11:05 a.m. On Optimal Smoothing Parameter Choice in

> Deconvolution Problems—Peter Hall, The University of Melbourne; *Aurore Delaigle,

University of Bristol

11:35 a.m. Disc: Lawrence D. Brown, University of Pennsylvania

11:55 a.m. Floor Discussion

122 CC-255 E

Medallion Lecture II—Invited

IMS, General Methodology

Organizer(s): Tony Cai, University of Pennsylvania Chair(s): Shane T. Jensen, University of Pennsylvania

10:35 a.m. Understanding Ecological Communities—

Claudia Neuhauser, The University of Minnesota

12:00 p.m. Floor Discussion

123 CC-Ballroom B

Remembering Frederick Mosteller: 1916–2006—

Memorial, Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Stephen Fienberg, Carnegie Mellon University

Chair(s): Stephen Fienberg, Carnegie Mellon University

10:35 a.m. Frederick Mosteller: A Statistical Life— Stephen

Fienberg, Carnegie Mellon University

11:05 a.m. Fred Mosteller as Researcher— David C.

Hoaglin, Abt Associates, Inc.

11:35 a.m. Fred as Educator—* Judith M. Tanur, SUNY

Stoney Brook

Floor Discussion 12:05 p.m.

124

CC-250 EF

Recent Developments in Bayesian Methods in Data Mining/Machine Learning—Invited

Section on Bayesian Statistical Science

Organizer(s): David Madigan, Rutgers University

Chair(s): David Madigan, Rutgers University

10:35 a.m. Stochastic Block Models of Mixed Membership-

> *Edoardo M. Airoldi, Princeton University; David Blei, Princeton University; Stephen Fienberg, Carnegie Mellon University; Eric

Xing, Carnegie Mellon University

11:05 a.m. Simultaneous Regression Shrinkage, Variable

Selection, and Supervised Clustering— * Howard

D. Bondell, North Carolina State University

11:35 a.m. The Lasso with Attribute Partition Search—

Suhrid Balakrishnan, Rutgers University;

David Madigan, Rutgers University

Floor Discussion 12:05 p.m.

125 CC-355 B

• A Sampling Revolution? List versus Area Frames for Probability Sampling—Invited

Section on Survey Research Methods

Organizer(s): Colm O'Muircheartaigh, NORC at the University of Chicago Chair(s): Martin Frankel, Baruch College/CUNY

10:35 a.m. Predicting the Relative Quality of Alternative

> Sampling Frames— Colm O'Muircheartaigh, NORC at the University of Chicago; Edward English, NORC at the University of Chicago; Stephanie Eckman, NORC at the University of

Chicago

11:00 a.m. Improving Coverage of Residential Address Lists in

> Multistage Area Samples— Sylvia Dohrmann, Westat; Daifeng Han, Westat; Leyla Mohadjer,

Westat

Comparing the Coverage of a Household Sampling 11:25 a.m.

> Frame Based on Mailing Addresses to a Frame Based on Field Enumeration— Vincent G. Iannacchione, RTI International; Joseph

McMichael, RTI International; James R. Chromy, RTI International; David Cunningham, RTI International; Katherine Morton, RTI International; James Cajka, RTI International;

Ross Curry, RTI International

11:50 p.m. Floor Discussion 126 CC-258

• • Multiplicity Today: Perspectives on Multiple Testing—Invited

General Methodology, Section on Statistics in Epidemiology, WNAR Organizer(s): Thomas H. Short, Indiana University of Pennsylvania Chair(s): Thomas H. Short, Indiana University of Pennsylvania

10:35 a.m. Political Aspects of Multiple Testing: A **Controversy**—**♦** S. Stanley Young, National **Institute of Statistical Sciences**

11:00 a.m. Empirical Bayes Methods for Multiple Testing— Debashis Ghosh, University of Michigan

11:25 a.m. Hochberg's Step-Up Method: Cutting Corners off Holm's Step-Down Method— * Yifan Huang, University of South Florida; Jason C. Hsu, The Ohio State University

11:50 a.m. Multiple Tests of Association with Biological Annotation Metadata—❖ Sunduz Keles, University of Wisconsin-Madison; Sandrine Dudoit, University of California, Berkeley; Mark J. van der Laan, University of California, Berkeley

Floor Discussion 12:15 p.m.

CC-260 127

Spatial Surveillance for Adverse Environmental Health Outcomes—Invited

Section on Statistics and the Environment, Section on Bayesian Statistical Science, Section on Statisticians in Defense and National Security, ENAR, Section on Health Policy Statistics, Biometrics Section

Organizer(s): Andrew B. Lawson, University of South Carolina Chair(s): Andrew B. Lawson, University of South Carolina

10:35 a.m. Optimal Methods in Surveillance— Marianne Frisén, Göteborg University

11:05 a.m. Bayesian Modeling and Surveillance for Adverse MRDD Outcomes Associated with Soil Chemical **Exposures**— * Ji-In Kim, University of South Carolina; Andrew B. Lawson, University of South Carolina

11:35 a.m. Assessing Spatial Performance of Surveillance Systems— Lance Waller, Emory University; Yuemei Wang, Emory University; Carol Lin, Bristol-Myers Squibb Company

Floor Discussion 12:05 p.m.

128 CC-355 E

JASA, Theory and Methods Invited Session—Invited

JASA, Theory and Methods, General Methodology

Organizer(s): Stephen Portnoy, University of Illinois; Walter W. Piegorsch, The University of Arizona

Chair(s): Walter W. Piegorsch, The University of Arizona

10:35 a.m. Implementation of Estimating-Function-Based Inference Procedures with MCMC Samplers— *Lee-Jen Wei, Harvard University; Lu Tian, Northwestern University; Jun S. Liu, Harvard University

11:20 a.m. Disc: Xuming He, University of Illinois

11:40 a.m. Disc: John D. Kalbfleisch, University of Michigan

12:00 p.m. Rejoiner: Lee-Jen Wei, Harvard University

12:10 p.m. Floor Discussion

_ongtime Member Reception

by invitation only

Monday, July 30, 6:30 to 7:30 p.m. The Grand America Hotel Murano Garden Salon

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Applied Session

Presenter

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GA-The Grand America Hotel

Invited Panels 10:30 a.m.-12:20 p.m.

129 CC-251 E

◆ SAMSI: A Five-Year Retrospective and Five-Year Prospective—Invited

Statistical and Applied Mathematical Sciences Institute

Organizer(s): James Berger, Duke University Chair(s): James Berger, Duke University

Sallie Keller-McNulty, Rice University

Alan Karr, National Institute of Statistical Sciences

12:05 p.m. Floor Discussion

130 CC-255 B

Issues and Solutions to Planning and Implementing an Adaptive Design in Practice— Invited

ENAR, Biometrics Section, Biopharmaceutical Section, WNAR Organizer(s): Brenda Gaydos, Eli Lilly and Company Chair(s): Brenda Gaydos, Eli Lilly and Company

* Paul Gallo, Novartis Pharmaceuticals

Gernot Wassmer, The University of Cologne

❖ Jerald S. Schindler, Merck & Co., Inc.

Christopher S. Coffey, The University of Alabama at Birmingham

12:15 p.m. Floor Discussion

Topic-Contributed Sessions 10:30 a.m.-12:20 p.m.

131 CC-355 C

● む It's Only Data, What's the Big Deal?: The Significance of Using Multi-Year Estimates from the American Community Survey—Topic-Contributed

Social Statistics Section, Section on Survey Research Methods

Organizer(s): Cynthia J. Davis, U.S. Census Bureau

Chair(s): Constance F. Citro, National Academy of Sciences

10:35 a.m. Multiple ACS Estimates: Pick a Number, Any

Number!— Linda Gage, California Department

of Finance

10:55 a.m. Multiyear ACS Results for Multnomah County,

Oregon: Preliminary Observations— George C. Hough, Portland State University; David A.

Swanson, University of Mississippi

11:15 a.m. The Utility of Five-Year Averages from the

American Community Survey for Bronx Neighborhoods—*Joseph Salvo, NYC

Department of City Planning; A. Peter Lobo, NYC Department of City Planning; Adam Willett, New York City Department of City

Planning

11:35 a.m. Disc: Michael L. Cohen, Committee on National

Statistics

11:55 a.m. Disc: Deborah H. Griffin, U.S. Census Bureau

12:15 p.m. **Floor Discussion**

132 CC-251 D

◆ Applications of Visualization for Web 2.0— Topic-Contributed

Section on Statistical Graphics

Organizer(s): Daniel Rope, SPSS Inc.

Chair(s): Simon Urbanek, AT&T Labs - Research

10:35 a.m. An AJAX Web 2.0 Geospatial Visualization

Framework— Stephen Eick, University of

Illinois at Chicago

10:55 a.m. Statistical Graphics with Element Control in

the Browser— Sven Knudsen, Insightful Corporation; Michael O'Connell, Insightful

Corporation

11:15 a.m. Using Web 2.0 for Statistical Software—

Webster West, Texas A&M University

11:35 a.m. Statistical Graphics for Collaborative

Environments— Daniel Rope, SPSS Inc.

12:15 p.m. Floor Discussion

133 CC-155 C

When To Stop a Clinical Trial for Efficacy?— Topic-Contributed

Biopharmaceutical Section, ENAR, WNAR

Organizer(s): Vipin Arora, Novartis Pharmaceuticals

Chair(s): John Connett, The University of Minnesota

10:35 a.m. When To Stop a Clinical Trial for Efficacy?—

Vipin Arora, Novartis Pharmaceuticals

10:55 a.m. Overview of Available Methods for Efficacy

Monitoring—**❖** Thomas Cook, University of

Wisconsin-Madison

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C	Themed Session	CC-Salt Palace (Convention Center GA-The Grand America Hotel
11:15 a.m. 11:35 a.m.	Crossing Monitoring Boundaries and Not Stopping—* Janet Wittes, Statistics Collaborative Disc: Marian Fisher, University of Wisconsin-	10:55 a.m.	Propensity Score Analysis with Hierarchical Data—& Fan Li, Harvard Medical School; Alan M. Zaslavsky, Harvard University; Mary Beth
	Madison		Landrum, Harvard Medical School
11:55 a.m.	Disc: Kannan Natarajan, Novartis Pharmaceuticals	11:15 a.m.	Bayesian Hidden Markov Models for Alcoholism Data— Kenneth Shirley, University of Pennsylvania; Dylan Small, University of
12:15 p.m.	Floor Discussion		Pennsylvania; Kevin G. Lynch, University of Pennsylvania
134	CC-155 A	11:35 a.m.	Laplace's Approximation for Relative Risk Frailty
Topic-Cor Biopharmaceu	itical Section, WNAR		Models— Shibao Feng, Genentech, Inc.; Lei Nie, Georgetown University Medical Center; Robert A. Wolfe, University Renal Research and
	Jason Liao, Merck & Co., Inc.	11 55	Education Association
	g Liu, Merck & Co., Inc.	11:55 a.m.	Dental Arch Clustering in Orthodontics Practice— * Johan Lim, Yonsei University; Heon Jin
10:35 a.m.	Prediction-Based Decision for Validation of (Bio)Analytical Methods Using Tolerance Intervals and Accuracy Profiles—*Bruno Boulanger, Université de Liège; Walthère Dewe,		Park, Inha University; SungIm Lee, DanKook University; Shin-Je Lee, Seoul National University
	GlaxoSmithKline; Francois Moonen, Arlenda; Philippe Hubert, University of Liege	12:15 p.m.	Floor Discussion
10:55 a.m.	Statistical Methods for Assessing Long-Term Stability of Compounds in Biological Matrices— David M. Hoffman, sanofi-aventis; Robert Kringle, sanofi-aventis	IMS	CC-254 A cs of Extremes—Topic-Contributed
11:15 a.m.	Bioassay: Decisionmaking in the Face of	Organizer(s): Zhengjun Zhang, University of Wisconsin-Madison	
	Uncertainty— Timothy Schofield, Merck & Co.,	Chair(s): Richard A. Davis, Colorado State University 10:35 a.m. Large Deviations for Point Processes Based on	
11:35 a.m.	Reparameterization of the Five-Parameter Logistic	10.55 a.111.	Stationary Sequences with Heavy Tails—& Henrik Hult, Brown University
11:55 a.m.	Dose-Response Curve— * Jason Liao, Merck & Co., Inc.; Rong Liu, Merck & Co., Inc. Overcoming Practical, Statistical, and Robotic	10:55 a.m.	Inference of a Heavy-Tailed Distribution— *Yongcheng Qi, The University of Minnesota
11.55 a.iii.	Challenges in Bioassay— David Lansky,		Duluth
	Precision Bioassay	11:15 a.m.	Maximum Likelihood Estimation for Alpha-Stable Autoregressive Processes— & Beth Andrews,
12:15 p.m.	Floor Discussion		Northwestern University; Matthew Calder, Colorado State University; Richard A. Davis,
135	CC-251 C		Colorado State University
Studies and IMS, Section of	ive Methods for Analyzing Observational and Clinical Studies—Topic-Contributed on Statistics in Epidemiology, ENAR Dylan Small, University of Pennsylvania	11:35 a.m.	On the Estimation of the Heavy-Tail Exponent in Time Series Using the Max-Spectrum— Stilian Stoev, University of Michigan; George Michailidis, The University of Michigan
Chair(s): Dylan Small, University of Pennsylvania		11:55 a.m.	Quotient Correlation: A Sample-Based Alternative
10:35 a.m.	Robust Propensity Score Analysis for Causal Inference in Observational Studies—*Asheber	40.55	to Pearson's Correlation— & Zhengjun Zhang, University of Wisconsin-Madison
	Abebe, Auburn University; Joseph W. McKean, Western Michigan University; Bradley E. Huitema, Western Michigan University	12:05 p.m.	Floor Discussion

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center

137 CC-250 C

Applications of Objective Bayesian Analysis— **Topic-Contributed**

Section on Bayesian Statistical Science

Organizer(s): Jun Lu, American University

Chair(s): Jingqin Luo, Washington University in St. Louis

10:35 a.m. **Estimate Response Rates and Satisfaction Given** Response Jointly Using Hierarchical Bayesian Modeling Approach— * Xiaoming Gao, Missouri Department of Conservation; Dongchu Sun, University of Missouri-Columbia; Zhuoqiong (Chong) He, University of Missouri-Columbia

10:55 a.m. **Objective Priors for Overdisposed Weibull** Models for Breast Cancer Incidence and Survivals— Luyan Dai, University of Missouri-Columbia; Zhuoqiong (Chong) He, University of Missouri-Columbia; Dongchu Sun, University of Missouri-Columbia; Mario Schootman, Washington University in St. Louis

Objective Priors for Spatially Adaptive Smoothing 11:15 a.m. Splines— *Yu Yue, University of Missouri-

Columbia

11:35 a.m. Objective Bayesian Analysis in Memory

Study— *Xiaoyan Lin, University of Missouri-Columbia; Dongchu Sun, University of

Missouri-Columbia

11:55 a.m. Disc: Jun Lu, American University

12:15 p.m. Floor Discussion

138 CC-250 D

Section on Bayesian Statistics Student Paper Competition: Applications in Biostatistics—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Merlise A. Clyde, Duke University

Chair(s): Jing Li, The University of Michigan

10:35 a.m. Multivariate Spatial-Temporal Modeling and

Prediction of Speciated Fine Particles— Jungsoon Choi, North Carolina State University; Montserrat Fuentes, North Carolina State University; Brian Reich, North Carolina State University; Jerry Davis, North Carolina

State University

Bayesian Variable Selection with Joint Modeling of 10:55 a.m.

Categorical and Survival Outcomes: An Application to Individualizing Chemotherapy Treatment in Advanced Colorectal Cancer— Wei Chen.

Karmanos Cancer Institute

11:15 a.m. Expert Opinion, Informative Priors, and Sensitivity Analysis for Longitudinal Binary Data with **Informative Dropout**—**❖** Joo Yeon Lee, U.S. Food

and Drug Administration; Joseph W. Hogan,

Brown University

A Semiparametric Joint Modeling Approach for 11:35 a.m. Nonignorable Missing Data— Liansheng Zhu, Pharmaceutical Product Development, Inc; Sujit

Ghosh, North Carolina State University

11:55 a.m. Floor Discussion

CC-251 B 139

◆ Nonparametric Curve Estimation—Topic-Contributed

Section on Nonparametric Statistics

Organizer(s): Sam Efromovich, University of Texas at Dallas Chair(s): Robert Serfling, University of Texas at Dallas

A New Bayesian Procedure for Nonparametric 10:35 a.m. **Regression Estimation and Pointwise Confidence** Bands—*Linda Zhao, University of

Pennsylvania

10:55 a.m. Consistent Learning Methods Are Approximately

Local—❖ Yaacov Ritov, The Hebrew University of Jerusalem; Alon Zakai, The Hebrew

University of Jerusalem

Remarks on Bandwidth Selection for 11:15 a.m.

Discrimination— David W. Scott, Rice University

11:35 a.m. Estimating Common Mean Curve in Interlaboratory

Studies— Andrew Rukhin, University of

Maryland

11:55 a.m. Conditional Density Estimation-\$Sam

Efromovich, University of Texas at Dallas

Floor Discussion 12:15 p.m.

CC-254 B 140

Statistical Literacy 2007—Topic-Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Milo Schield, Augsburg College Chair(s): Paul Fields, Brigham Young University

10:35 a.m. Statistics for Innumerate Journalists— Stephen

Doig, Arizona State University

10:55 a.m. Quantitative Reasoning: An Activity-Based Course with Real Data and Relevant Issues— *Kay

Somers, Moravian College

	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
11:15 a.m.	Success of Relative Strength Investing Within Similar Asset Classes— Marshall Schield, Stir Research; Milo Schield, Augsburg College	10:55 a.m.	WGCNA: A Software for Weighted Gene Coexpression Network Analysis—& Lin Wang, University of California, Los Angeles
11:35 a.m.	Grammar of Chance— & Tom Burnham, Cognitive Consulting; Milo Schield, Augsburg College	11:15 a.m.	Network-Based Meta Analysis Methods for Microarray Data— *Wen Lin, University
11:55 a.m.	Media Stories Involving Numbers—❖ Milo Schield, Augsburg College		of California, Los Angeles; Steve Horvath, University of California, Los Angeles
12:15 p.m.	Floor Discussion CC-254 C	11:35 a.m.	Clustering Procedures for Finding Shared Modules Across Multiple Microarray Datasets— Peter Langfelder, University of California, Los
	I Phylogenetics—Topic-Contributed		Angeles; Steve Horvath, University of California, Los Angeles
	Bret Larget, University of Wisconsin-Madison t Larget, University of Wisconsin-Madison A Bayesian Model To Infer the Relationship	11:55 a.m.	Connectivity, Module-Conformity, and Significance: Understanding Weighted Gene Coexpression Networks—* Jun Dong, University of California, Los Angeles; Steve Horvath, University of California, Los Angeles; Andy Yip, National
	Among Several Recombinant Sequences— Erik Bloomquist, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles	12:15 a.m.	University of Singapore Floor Discussion
10:55 a.m.	Inference About Gorilla Population History Using MCMC Method—* Joungyoun Kim, University of Wisconsin-Madison	Contribu	ited Sessions 10:30 a.m12:20 p.m.
11:15 a.m.	Bayes Estimation of Hybridization in Species Phylogeny Based on Incongruent Gene Topologies—*Chen Meng, University of New Mexico	143 • ❖ Rece	CC-255 F nt Advances in Microarray Data Analysis
11:35 a.m.	Joint Bayesian Estimation of Phylogeny and	I—Contributed Biometrics Section	
	Sequence Alignment— Heejung Shim, University of Wisconsin-Madison		olin Wu, The University of Minnesota
11:55 a.m.	Spatial Location-Dependent Substitution Models and Their Application to Phylogenetics— *Xueliang Pan, The Ohio State University; Dennis K. Pearl, The Ohio State University; J. Dennis Pollack, The Ohio State University	10:35 a.m.	Exonerating Bonferroni's Multiple Testing Procedure—* Alexander Gordon, The University of North Carolina at Charlotte; Galina Glazko, University of Rochester; Xing Qiu, University of Rochester; Andrei Yakovley, University of Rochester
12:15 p.m.	Floor Discussion	10:50 a.m.	Statistical Framework for Integrative Analysis of Multiple Gene Expression—& Chien-Cheng Tseng, University of Pittsburgh
Expressio WNAR, ENAR Organizer(s):	ry and Applications of Gene Co- n Network Methods—Topic-Contributed , Biometrics Section Wei Zhao, University of California, Los Angeles	11:05 a.m.	A Method of Detecting Differential Gene Expression for Cross-Species Hybridization Experiments— *Ying Chen, University of California, Davis; Anu Chakicherla, Lawrence Livermore National Laboratory; David Rocke, University of California, Davis
	istina Ramirez Kitchen, University of California, Los Angeles	11:20 a.m.	Identifying Differentially Expressed Genes for

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center RDCurve: A Nonparametric Method To Evaluate 145 CC-155 F 11:35 a.m. the Stability of Selection Procedures— * Xin Lu, Statistical Issues in Noninferiority and University of California, San Diego **Equivalence Trials—Contributed** 11:50 a.m. Sample Size Estimation for Factorial Designs in Biopharmaceutical Section, Biometrics Section Microarray Studies— * Bruce Thompson, Clinical Chair(s): Stephanie Dunbar, Merck & Co., Inc. Trials & Surveys Corp.; Clara Chu, Clinical **Generalized Mixed Models for Noninferiority** 10:35 a.m. Trials & Surveys Corp.; Thomas J. Richards, Trials—❖ Robert Abugov, U.S. Food and Drug University of Pittsburgh Medical Center Administration 12:05 p.m. Normalization for Replicated MicroRNA Array 10:50 a.m. Trials and Tribulations in Choosing Noninferiority Data with Spike-In Controls— Yuhua Su, Yale Margins— & John Johnson, Cato Research, Ltd. University; Joanne B. Weidhaas, Yale University; A Testing Strategy for Noninferiority and/or 11:05 a.m. Daniel Zelterman, Yale University Superiority Hypotheses on Multiple Endpoints— *Xiaohui Luo, Merck & Co., Inc.; Jianjun Li, 144 CC-155 D Merck & Co., Inc. Machine Learning and Related Issues— 11:20 a.m. New Tests for Assessing Noninferiority and Contributed Equivalence from Survival Data— Kallappa Koti, U.S. Food and Drug Administration **Biometrics Section** A Multivariate Test for Population Chair(s): Hao Zhang, North Carolina State University 11:35 a.m. Bioequivalence— * Inna Chervoneva, Thomas 10:35 a.m. Integration of Relational and Hierarchical Network Jefferson University; Terry Hyslop, Thomas Information: Prediction of Protein Function— Jefferson University; Walter W. Hauck, Kimmel *Xiaoyu Jiang, Boston University; Eric D. Cancer Center at Jefferson Kolaczyk, Boston University; Simon Kasif, 11:50 a.m. Estimation of Long-Term Vaccine Efficacy and **Boston University** Waning Effects Using Surveillance Interval Subject-Adaptive, Real-Time Sleep Stage 10:50 a.m. Data— Martha Lee, U.S. Food and Drug Classification Based on Conditional Random Administration; Tsai-Lien Lin, U.S. Food and Field— & Gang Luo, IBM T.J. Watson Research **Drug Administration** Center; Wanli Min, IBM T.J. Watson Research An Equivalence Test Based on the Duration of 12:05 p.m. Center Treatment Effect as Measured by Median Time-Variable Selection for Optimal Decisionmaking— 11:05 a.m. to-Event— Suriani Pokta, Allergan, Inc.; Jihao Lacey Gunter, University of Michigan; Zhou, Allergan, Inc. Susan Murphy, University of Michigan; Ji Zhu, University of Michigan 146 CC-250 A 11:20 a.m. Correlation Analysis Between Two Sets of Brain Images—

❖ Yeming Ma, State University of New Long Memory and Related Processes—Contributed York at Stony Brook **Business and Economics Statistics Section** 11:35 a.m. **Covariate Effect Estimation with Partial** Chair(s): Alicia Carriquiry, Iowa State University Penalization— * Jiang Gui, Dartmouth Medical Estimation in Long-Time Memory Processes— 10:35 a.m. School; James Sargent, Dartmouth Medical *Wen Li, Iowa State University; Alicia Carriguiry, School Iowa State University; Wolfgang Kliemann, Iowa State University; Cindy Yu, Iowa State University 11:50 a.m. Variable Importance Selection: Random Forest vs. Logistic Regression— Andrejus Parfionovas, 10:50 a.m. Unit Root Tests in the Presence of a Simultaneous

11:05 a.m.

Utah State University; Adele Cutler, Utah State

Q-Learning— Bibhas Chakraborty, University of

Michigan; Susan Murphy, University of Michigan

Inference for Dynamic Treatment Regimes via

University

12:05 p.m.

Break in the Mean and the Innovation Variance—

Long-Memory Parameter Estimation in Time Series

and Its Connection to fBm— Michael Levine,

Purdue University; Frederi Viens, Purdue University; Soledad Torres, Universidad de

*Amit Sen, Xavier University

Valparaiso

Ocheral I	rogram schedule		
0	Themed Session • Applied Session • Presenter	CC-Salt Palace Convention Center	GA-The Grand America Hotel
11:20 a.m.	A Power Study of Seasonal Unit Root Tests for Quarterly Data—* Qianyi Zhang, North Carolina State University; David Dickey, North Carolina State University; Sastry Pantula, North Carolina State University	for Health Using Individent Contributed	CC-259 an and Frequentist Models dual and Ecologic Data— s, ENAR, Biometrics Section, WNAR
11:35 a.m.	Test of Cointegration Using Long Run Canonical Correlations: Part I—& Kalidas Jana, University of Texas at Brownsville; Alastair R. Hall, University of Manchester	Chair(s): Susan L. Stewart, Uni 10:35 a.m. Truth or Consec to Inconsistent	versity of California, San Francisco quences: Estimating Error Due Self-Report of Adolescent Risk Janet Rosenbaum, Harvard
11:50 a.m.	Contemporaneous Aggregation of Time Series—& Georgios Tripodis, University of Massachusetts Amherst; Jeremy Penzer, London School of Economics	University 10:50 a.m. A Statistical To- and Ecologic Cl	ol Based on a Model of Personal haracteristics To Explain Deprivation Care Access—* Martey Dodoo,
12:05 p.m.	Feature Extraction Using Functional Data Analysis for Screening Large Numbers of Time Series—*Ganesh Subramaniam, AT&T Labs - Research; Ravi Varadhan, The Johns Hopkins University; Ciprian M. Crainiceanu, The Johns Hopkins University	The Robert Gr Robert Grahar Robert Grahar 11:05 a.m. Bayesian Hiera Suicide Rates: Evaluation—*	raham Center; Robert Phillips, m Center; Xingyou Zhang, The
Bayesian Approaches in Machine Learning and Model Selection—Contributed Section on Bayesian Statistical Science Chair(s): Meijuan Li, The University of Minnesota 10:35 a.m. Principal Component Reduction in Linear Mixed B-Splines—& Carsten Botts, Williams College;		11:20 a.m. Distribution of (A Bayesian-Base) The University Diane K. Boyle	Cronbach's Alpha for Ordinal Data: sed Approach— Byron Gajewski, of Kansas Medical Center; e, The University of Kansas er; Sarah Thompson, University of lical Center
10:50 a.m.	Michael Daniels, University of Florida Adaptive Dynamic Bayesian Networks— & Brenda Ng, Lawrence Livermore National Laboratory	Negative Data: Diabetes Self-C	p-Part Model for Bounded Non- Estimating Extra Time Spent on Care—* Betsy C. Gunnels, Centers
11:05 a.m.	Testing Equality of Several Functions—*Sam Behseta, California State University; Robert E. Kass, Carnegie Mellon University	J. Thompson, G and Prevention	ontrol and Prevention; Theodore Centers for Disease Control n; Louise B. Russell, Rutgers san L. Ettner, University of
11:20 a.m.	Aspects of Bayesian Lasso Regression—	California, Los for Disease Co	s Angeles; James P. Boyle, Centers ontrol and Prevention of Birth Weight and Gestational Age
11:35 a.m.	Bayesian Adaptive LASSO for Linear Models— & Yi-Liang Tung, National Cheng Kung University	via the Gibbs S	ampler— & Betsy Enstrom, Duke an E. Gelfand, Duke University;

Geeta Swamy, Duke University; Marie Lynn

Characterizing Drug Diffusion with Patient-Level

Miranda, Duke University

Deborah Schrag, MSKCC

12:05 p.m.

11:50 a.m.

12:05 p.m.

Bayesian Kernel Regression with Feature

Bayesian Model Averaging Using Adaptive

Merlise A. Clyde, Duke University

Sampling—***** Joyee Ghosh, Duke University;

Wolpert, Duke University

Selection— * Zhi Ouyang, Duke University; Merlise A. Clyde, Duke University; Robert L.

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center

149 CC-251 A Semiparametric and Nonparametric Inference— Contributed

Section on Nonparametric Statistics

Chair(s): Alan Polansky, Northern Illinois University

Confidence Intervals for a Discrete Population 10:35 a.m. Median—❖ Ronald Randles, University of Florida; Denis Larocque, HEC Montreal

A Family of Kurtosis Orderings for Multivariate 10:50 a.m. Distributions—❖ Jin Wang, Northern Arizona

University

Rank-Weighted, Two-Sample U-Statistics with 11:05 a.m. Application to Partial Area Under ROC Curves— Chengqing (Alan) Wu, National Institutes of Health; Aiyi Liu, National Institutes of Health; Kai Fun Yu, National Institutes of Health

11:20 a.m. When Does the Wilcoxon-Mann-Whitney Fail?— Abu Minhajuddin, The University of Texas Southwestern Medical Center at Dallas: Paul Nakonezny, The University of Texas Southwestern Medical Center at Dallas

11:35 a.m. Smoothed Mann-Whitney Method for Two-Sample Location Problem— Feridun Tasdan, Western

Illinois University

Diagnostics for Rank Estimates for a Mixed 11:50 a.m. Model—❖ John Kloke, Pomona College; Joseph W. McKean, Western Michigan University; M. Mushfiqur Rashid, U.S. Food and Drug Administration

12:05 p.m. Clusterwise Regression Using Dirichlet Mixtures— Subhashis Ghoshal, North Carolina State University; Changku Kang, Bank of Korea

CC-251 F 150

• Symbolic, Time Series, and Image Analysis **II—Contributed**

Section on Statistical Computing, Section on Statistical Graphics Chair(s): Michael Trosset, Indiana University

10:35 a.m. Symbolic Data Analysis— Lynne Billard, University of Georgia

10:50 a.m. Temporal Statistics for Consequences of Alcohol **Use**— Peter Mburu, George Mason University; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University

Time-Frequency Analysis of Electroencephalogram 11:05 a.m. Series— * Wei Yang, SUNY at Albany; Stephen Wong, University of Pennsylvania; Igor Zurbenko, SUNY at Albany

11:20 a.m. **Temporal Extensions to Spatial Statistical** Metrics—* James Shine, U.S. Army Topographic Engineering Center; James P. Rogers, U.S. Army

Corps of Engineers; Mete Celik, The University of Minnesota; Shashi Shekhar, The University of

Minnesota

11:35 a.m. Approaches to Time Series Clustering— Hwanseok Choi, The University of Alabama; J. Michael Hardin, The University of Alabama

An Empirical Spectral Test (EST) for Random 11:50 a.m. **Sequences**— David Zeitler, Grand Valley State University; Joseph W. McKean, Western Michigan University; John Kapenga, Western Michigan University

Using Geometrical Tools for Dimension Reduction 12:05 p.m. of Images— Evgenia Rubinshtein, University of Central Arkansas; Anuj Srivastata, Florida State University

151 CC-155 E

• Reducing Bias in Epidemiological Studies: Two-Phase Sampling and Missing Data Methods— Contributed

Section on Statistics in Epidemiology, Section on Health Policy Statistics Chair(s): Mari Palta, University of Wisconsin-Madison

A Method To Assess Bias Reduction in Observational Studies of Influenza Vaccine Center for Health Studies; Michael Jackson, Group Health Center for Health Studies; Noel Weiss, University of Washington; Lisa Jackson, Group Health Center for Health Studies

10:50 a.m. Multiple Imputation To Control for Unmeasured Confounding Using an Internal Validation Study— *Robert Glynn, Brigham and Women's Hospital; Til Stürmer, Brigham and Women's Hospital

11:05 a.m. **Estimation of Causal Effects in Studies with** Outcome-Dependent, Two-Phase Sampling— Weiwei Wang, Johns Hopkins Bloomberg School of Public Health; Daniel Scharfstein, Johns Hopkins Bloomberg School of Public Health; Zhiqiang Tan, Johns Hopkins Bloomberg School of Public Health; Ellen MacKenzie, Johns Hopkins Bloomberg School of Public Health

11:20 a.m. Analysis of Epidemiological Studies with an Outcome-Dependent Sampling Design— * Haibo Zhou, The University of North Carolina at Chapel Hill

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

11:35 a.m. Estimates of Causal Effects of a Continuous Exposure Using Multiple Imputation—\$Sundar Natarajan, Veterans Affairs New York Harbor Healthcare System/New York University; Stuart R. Lipsitz, Brigham and Women's Hospital; Garrett Fitzmaurice, Harvard University; Scott Regenbogen, Harvard School of Public Health

11:50 a.m. Nonparametric Regression with Missing Data Using Kernel-Estimating Equations—\$Lu Wang, Harvard University; Xihong Lin, Harvard Schoo

Using Kernel-Estimating Equations—*Lu Wang, Harvard University; Xihong Lin, Harvard School of Public Health; Andrea Rotnitzky, Universidad Torcuato Di Tella

12:05 p.m. Semiparametric Efficient Causal Inference with Missing Data— *Yue Shentu, Merck & Co., Inc.; Minge Xie, Rutgers University

152 CC-355 D

Survey Measurement and Data Quality— Contributed

Section on Survey Research Methods, Social Statistics Section

Chair(s): Holly Shulman, Centers for Disease Control and Prevention

10:35 a.m. Can Study Design Influence Substantive
Survey Results?— Dhuly Chowdhury, RTI
International; Karol Krotki, RTI International;
Lily Trofimovich, RTI International

10:50 a.m. SOI Develops Better Survey Questions Through Pretesting—* Tara Wells, Internal Revenue Service; Diane M. Milleville, Internal Revenue Service

11:05 a.m. A New Approach to Measuring Residence Status—
 *Jennifer Childs, U.S. Census Bureau; Elizabeth M. Nichols, U.S. Census Bureau

11:20 a.m. Evaluating the Computer Audio-Recorded Interviewing (CARI) Household Wellness Study (HWS) Field Test—Taniecea Arceneaux, U.S. Census Bureau; *Sherry E. Thorpe, U.S. Census Bureau

11:35 a.m. Patterns of Nonresponse for Key Questions in NSDUH and Implications for Imputation—* Peter Frechtel, RTI International; Elizabeth Copello, RTI International

11:50 a.m. The Impact on Data Quality of the Transition to Clean-Burning, On-Highway Diesel—* Paula Weir, Energy Information Administration; Pedro J. Saavedra, Macro International; Benita O'Colmain, Macro International

12:05 p.m. Interviewer Variability and Survey Estimates:

Quantifying Data Quality— Novie Younger, The
University of the West Indies at Mona, Jamaica;

Damion Francis, University of the West Indies; Shelly McFarlane, University of the West Indies; Jan van den Broeck, University of the West Indies; Georgiana Gordon-Strachan, University of the West Indies; Andriene Grant, Ministry of Health, Jamaica; Deanna Ashley, Ministry of Health, Jamaica; Rainford Wilks, University of the West Indies

153 CC-355 A

Survey Weighting and Calibration Methods— Contributed

Section on Survey Research Methods

Chair(s): Stanislav Kolenikov, University of Missouri-Columbia

10:35 a.m. Comparing Estimate Bias and Variances Using Calibrated Weights with a Different Number of Constraints in a Sample with Oversamples in Specific Groups—*Nuria Diaz-Tena, TNS-Global; Rob Cole, TNS-Global; Partha Dass, TNS-Global

10:50 a.m. A New Algorithm for High-Dimensional Calibration in Observational Studies—* Michael E. Jones, Westat; Ismael Flores Cervantes, Westat; David R. Judkins, Westat

11:05 a.m. Improving the Unit Nonresponse Adjustment in the NLSCY Using Logistic Regression Modeling and Calibration—& Mike Tam, Statistics Canada; Marcelle Tremblay, Statistics Canada; Sarah Franklin, Statistics Canada; Claude Girard, Statistics Canada

11:20 a.m. Weight-Trimming in the National Immunization Survey (NIS)— Sadeq Chowdhury, NORC at the University of Chicago; Meena Khare, National Center for Health Statistics; Kirk Wolter, NORC at the University of Chicago

11:35 a.m. Testing for Informative Weights and Weights
Truncation in Multivariate and Multilevel Modeling
with Survey Data— Tihomir Asparouhov,
Muthen & Muthen; Bengt Muthen, University of
California, Los Angeles

11:50 a.m. An Application of Alternative Weighting Matrix
Collapsing Approaches for Improving Sample
Estimates—* Linda Tompkins, Centers for
Disease Control and Prevention; Jay J. Kim,
National Center for Health Statistics

12:05 p.m. Bayesian Weight-Smoothing Models in Clustered or Cross-Classed Sample Designs—*Xiaobi Huang, University of Michigan; Michael R. Elliott, University of Michigan

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Contributed Poster Presentations 10:30 a.m.-12:20 p.m.

154 CC-Exhibit Hall D Contributed Poster Presentations—Contributed

Biometrics Section, Biopharmaceutical Section, ENAR, WNAR, Section on Statistical Consulting, Section on Statistical Computing Chair(s): Dongseok Choi, Oregon Health & Science University

Applications and case studies

- A Quantitative Assessment of Diagnostic Cutoff Point Selection Methods— * Michael Andrew, Centers for Disease Control and Prevention; Shengqiao Li, Centers for Disease Control and Prevention; Harshinder Singh, West Virginia University
- 02 Application of Principal Component Analysis in the Reduction of a 19-Item Clinical Scale— Hong Liu-Seifert, Eli Lilly and Company
- 03 Statistical Applications in High-Throughput siRNA Synthetic Lethality Screens— *Yue Li, Lilly Singapore Center for Drug Discovery; Gopinath Ganji, Lilly Singapore Center for Drug Discovery; Holly Yin, Translational Genomics Research Institute; Quick Que, Translational Genomics Research Institute; Kok Long Ang, Lilly Singapore Center for Drug Discovery; Libin Ma, Lilly Singapore Center for Drug Discovery; Song Wu, Lilly Singapore Center for Drug Discovery; Greg Tucker-Kellogg, Lilly Singapore Center for Drug Discovery
- 04 Outlier Detection for a High-Throughput Bioassay— Shea Watrin, Amgen Inc.; Ye Frank, Amgen Inc.
- 05 The Effects of Sampling and Sample Preparation on Analytical Sensitivity— Thea Eudey, California State University, East Bay; Richard Lewis, GlaxoSmithKline
- 06 Binary Logistic Regression Modeling of Precursor Sequence Cleavage— Allison Tegge, University of Illinois at Urbana-Champaign; Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign; Bruce Southey, University of Illinois at Urbana-Champaign

Bayesian statistics, hierarchical models

Frequentist and Bayesian Complement Each Other— *Tie-Hua Ng, U.S. Food and Drug Administration

Biometrics, bioinformatics, computational biology

Sample-Size Determination for a Flow Cytometry Assay— *Elaine A. McVey, BD Technologies; Perry Haaland, BD Technologies; Friedrich Hahn, BD Technologies

- 09 Testing for Ordered Alternatives in the Analysis of Genetic Association Studies— * Julia Kozlitina, Southern Methodist University
- 10 Array Analysis To Assess Effects of RNAi-Based Silencing in Relation to Flavonoid Transport— Robert Norton, California State University, East Bay; Mousumi Rath, California State University, East Bay; Claudia Uhde-Stone, California State University, East Bay
- 11 A Semiparametric Mixture Model for Identifying Cis-Acting Regulatory Elements— Gregory Hather, University of California, Berkeley, Terence Speed, University of California, Berkeley; Mary Wildermuth, University of California, Berkeley
- 12 Reproducibility of Microarray Data: A Further Analysis of Microarray Quality Control Data— & Chien-Ju Lin, National Center for Toxicological Research; James J. Chen, U.S. Food and Drug Administration; Huey-Miin Hsueh, National Chengchi University; Robert R. Delongchamp, National Center for Toxicological Research; Chen-An Tsai, Academia Sinica
- 13 An EM Algorithm for Identifying Genotypic Structure Using Genome-Wide Expression Data—❖ Ellen Breazel, University of Georgia; Paul Schliekelman, University of Georgia
- A Novel Application of Quantile Regression for 14 **Identification of Cartilage Biomarkers in Equine** Microarray Data— Liping Huang, University of Kentucky; Christopher Saunders, George Mason University; Wenying Zhu, University of Kentucky; Jamie MacLeod, University of Kentucky; Arnold Stromberg, University of Kentucky; Arne Bathke, University of Kentucky
- A Novel Method of Identifying Differentially Expressed 15 Genes Based on Probe-Level Data for GeneChip Arrays— *Zhongxue Chen, Southern Methodist University; Monnie McGee, Southern Methodist University; Qingzhong Liu, New Mexico Institute of Mining and Technology; Megan Kong, The University of Texas Southwestern Medical Center at Dallas; Richard Scheuermann, The University of Texas Southwestern Medical Center at Dallas
- 16 A Network-Based Gene Screening Approach— *Wei Zhao, University of California, Los Angeles; Paul Mischel, University of California, Los Angeles; Steve Horvath, University of California, Los Angeles
- 17 Statistical Methods for Peptide Identification Using Tandem Mass Spectrometry Through Sequence Database Searching—*Qunhua Li, University of Washington; Matthew Stephens, The University of Chicago

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Clinical trials, drug discovery

- 18 Development and Application of a Multivariate Mantel-Haenszel Mean Scores Test—* Rebecca McNeil, Medical University of South Carolina; Robert Woolson, Medical University of South Carolina; Carol Wagner, Medical University of South Carolina
- Curtailed Two-Stage Design for Phase II Clinical
 Trial—Yunchan Chi, National Cheng Kung University;
 Chiamin Chen, National Cheng-Kung University
- 20 Statistical Evaluation of Bone Mineral Density as a Surrogate Endpoint for Fracture with or Without Baseline Consideration—* Peiqi Chen, Eli Lilly and Company; Asad Rana, Eli Lilly and Company
- 21 A Composite Endpoint for Vulvovaginal Symptoms in VVA Clinical Trials— Moh-Jee Ng, U.S. Food and Drug Administration; Ling Chen, U.S. Food and Drug Administration
- Predicting Accrual in Clinical Trials: Bayesian Posterior Predictive Distribution— Stephen D. Simon, Children's Mercy Hospital; Byron Gajewski, The University of Kansas Medical Center
- 23 Inference in Clinical Trial Using ROC Curve Regression— *Lin Zhang, Baylor University; Jack Tubbs, Baylor University
- 24 Semiparametric Smoothing for Scintigraphy Data from a Three-Period Crossover Design—* Jo Edmonds, Baylor University; John W. Seaman, Jr., Baylor University
- 25 A Performance Analysis of Distribution-Free Tests for Drug Interaction— *Yuhong Tang, Sam Houston State University; Melinda M. Holt, Sam Houston State University
- 26 Drug Combination Studies in Preclinical Pharmaceutical Research—* Joseph Haas, Eli Lilly and Company; Philip Iversen, Eli Lilly and Company
- 27 Evaluation of Soluble KIT as a Potential Surrogate Marker for Time-to-Tumor Progression in Patients with Advanced GIST by Several Recently Proposed Methods—*Xin Huang, Pfizer Inc.; Sam DePrimo, Pfizer Inc.; Jenny Zhang, Harvard University; Charles Harmon, Pfizer Inc.; John Smeraglia, Pfizer Inc.; Chuck Baum, Pfizer Inc.; Randy Allred, Pfizer Inc.
- 28 Exact Inference for Nominal and Rating Scale Data with Repeated Measurements in Clinical Trials with Parallel Group Design—* James Lee, Daiichi Sankyo Pharma Development; John Dar Shong Hwang, B.R.S.I.
- 29 Identification of Treatment Effects in the Presence of Deviation from Randomized Assignment: Application to a Surgical Setting—& Corwin Zigler, University of

California, Los Angeles

Data mining and knowledge discovery, machine learning

- 30 Semisupervised Technique and Its Learning Rate in Intelligent Systems—& Morteza Marzjarani, Saginaw Valley State University
- 31 The Multinode Topological Overlap Measure for Gene Neighborhood Analysis— Ai Li, University of California, Los Angeles; Steve Horvath, University of California, Los Angeles

Environmetrics, ecology, agriculture, wildlife management

32 Modeling Movement and Diving Behavior of Satellite-Tagged Sea Turtles—* Eric Nordmoe, Kalamazoo College; Cheong Hoong Diong, Nanyang Technological University

Experimental design

- 33 Repeated Classification as a Cost-Effective Sample
 Design To Test Association When There Are Random
 Misclassification Errors—* Nathan Tintle, Hope College
- 34 Multivariate Exploration and Analysis of Crop Yield
 Components for Optimal Selection in Honeycomb
 Designs—* Andy Mauromoustakos, University of
 Arkansas; Vasilia Fasoula, The University of Georgia;
 Kevin Thompson, University of Arkansas

Health policy, epidemiology, public health

- An Additive Model for a Heavily Right-Skewed Outcome—

 Amanda Allshouse, RTI Health Solutions; Jianmin

 Wang, RTI Health Solutions; Jasmine Mathias, RTI

 Health Solutions; William Irish, RTI Health Solutions
- 36 A Study on Bayesian Signaling of a Prespecified Drug-Adverse Event Association in Post-Marketing Safety Studies—*Yu-te Wu, U.S. Food and Drug Administration; George Rochester, U.S. Food and Drug Administration; Yi Tsong, U.S. Food and Drug Administration

Linear models, GLMs, parametric methods

- 37 Comparing Exact and Asymptotic Confidence Intervals for a Function of Variance Components—& Brent Burch, Northern Arizona University
- Testing for Slope Equivalency of Two Orthogonal
 Analytical Methods—❖ Richard Burdick, Amgen Inc.;
 Shea Watrin, Amgen Inc.; Michael Stoner, Amgen Inc.
- 39 Step-Down Pairwise Comparisons Based on the Studentized Range Distribution— Scott Richter, The University of North Carolina at Greensboro; Melinda McCann, Oklahoma State University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Longitudinal data, repeated measurements, and metaanalysis

- 40 An Iterative Least Squares Process To Obtain Unbiased Variance Estimates at the Second Stage of a Two-Stage Model for Longitudinal Data— Mary Bartholomew, U.S. Food and Drug Administration; Chris Gennings, Virginia Commonwealth University
- 41 Type I and Type II Error Properties for White's Robust Covariance Matrix Estimator in Longitudinal Designs with Several Repeats—*Keith Williams, University of Arkansas for Medical Sciences; Deborah W. Biddle, University of Arkansas for Medical Sciences
- 42 Effect of Ignoring Baseline on Transitions from Intact Cognition to Dementia—*Richard J. Kryscio, University of Kentucky; Lei Yu, University of Kentucky; David Snowdon, University of Kentucky; Suzanne Tyas, University of Waterloo
- 43 A Simulation Study Comparing Linear Mixed Models and Generalized Estimation Equations for Use in Longitudinal Biomarker Study for Exposure to Cigarette Smoke—* Qiwei Liang, Philip Morris USA; Huajiang Li, Quintiles Inc.; Hans Roethig, Philip Morris USA

Mathematical statistics, distribution theory, robust statistics

44 A New Class of Location Parameters and Estimators— *Roy St Laurent, Northern Arizona University; Ian Harris, Southern Methodist University

Medical devices

- 45 Effect of Sample Aliquot Size on the Sensitivity and Reproducibility of Clinical Assays—& Guorong Chen, Digene Corp; Irina Nazarenko, Digene Corp
- Noninferiority Testing with a Given Percentage of the Control as the Noninferiority Margin—❖ Paul Hshieh, U.S. Food and Drug Administration

Pharmacokinetics and pharmacodynamics

47 Using Spline-Enhanced ODEs for PK/PD Model Development—* Dong Wang, University of Nebraska-Lincoln; Yi Wang, University of Nebraska-Lincoln; Kent Eskridge, University of Nebraska-Lincoln; Shunpu Zhang, University of Nebraska-Lincoln

Time series/wavelet analysis

- **Wavelet Analysis of Super-Frequent fMRI** * Zibonele Valdez-Jasso, The University of Texas at Dallas

Speaker with Lunch 12:30 p.m.-1:50 p.m.

155

CC-Ballroom D

Section on Statistics in Sports Speaker with Lunch (fee event)—Speaker with Lunch

Section on Statistics in Sports

Organizer(s): Michael Schell, Moffitt Cancer Center

ML09 Is Tiger a Winner, or Is He Just Better Than Everyone?— Scott Berry, Berry Consultants

Roundtables with Lunch 12:30 p.m.-1:50 p.m.

156

CC-Ballroom A

Biopharmaceutical Section Roundtables with Lunch (fee event)

Biopharmaceutical Section

Organizer(s): Kaylan Ghosh, Vislation

- ML10 Innovative Design and Analysis of FDA Medical Device Submissions—& Gary Kamer, U.S. Food and Drug Administration

- ML13 Evaluating Probability of Success for Internal Decisionmaking in Early Drug Development—

 Narinder Nangia, Abbott Laboratories

157

CC-Ballroom A

Business and Economics Statistics Section Roundtable with Lunch (fee event)

Business and Economics Statistics Section

Organizer(s): Clifford M. Hurvich, New York University

ML14 Statistics Teaching: Bayesian, Frequentist, United— *Emanuel Parzen, Texas A&M University

158

CC-Ballroom A

Section on Bayesian Statistical Science Roundtable with Lunch (fee event)

Section on Bayesian Statistical Science

Organizer(s): David van Dyk, University of California, Irvine

ML15 Dealing with Review Efficiency: A Practical Bayesian Approach—*Xiao-li Meng, Harvard University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

159 CC-Ballroom A Section on Government Statistics Roundtable with Lunch (fee event)

Section on Government Statistics

Organizer(s): Michael Davern, The University of Minnesota

Design and Usago Colombia Data Series— Matthew Sobek, The University of Minnesota

160 CC-Ballroom A Section on Health Policy Statistics Roundtable with Lunch (fee event)

Section on Health Policy Statistics

Organizer(s): Anirban Basu, The University of Chicago

ML17 Estimation of Causal Effects in Health Services and Outcome Research Using Observational Data— Lirong Zhao, University of Maryland

161 CC-Ballroom A Section on Physical and Engineering Sciences Roundtables with Lunch (fee event)

Section on Physical and Engineering Sciences

Organizer(s): Randall Tobias, SAS Institute Inc.

ML18 Sensor-Based Field Reliability Data Analysis: Opportunities and Challenges— Necip Doganaksoy, General Electric

ML19 Non-Negative Matrix Factorization in Statistics— S. Stanley Young, National Institute of Statistical Sciences

162 CC-Ballroom C Section on Quality and Productivity Roundtable with Lunch (fee event)

Section on Quality and Productivity

Organizer(s): James Williams, GE Global Research

ML20 Exposing Students to Six Sigma as Part of Their University Training—❖ Angie Patterson, GE Global Research

163 CC-Ballroom C Section on Risk Analysis Roundtable with Lunch (fee event)

Section on Risk Analysis

Organizer(s): Susan Simmons, The University of North Carolina at Wilmington

ML21 Harnessing the Power of Information in Quantitative Risk Assessment— Walter W. Piegorsch, The University of Arizona

CC-Ballroom C 164 Section on Statistical Consulting Roundtable with Lunch (fee event)

Section on Statistical Consulting

Organizer(s): James Grady, The University of Texas Medical Branch

Right Answer, Wrong Question: Characterization and Reduction of the Risk of Type III Error in Statistical **Applications**—**❖** John L. Eltinge, Bureau of Labor **Statistics**

165 CC-Ballroom C Section on Statistical Education Roundtables with Lunch (fee event)

Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

Spanning the Globe: Using Data To Introduce Students to the Rest of the World— Robert Carver, Stonehill College

ML24 TA Training for Introductory Statistics Courses— ♦ Jessica Utts, University of California, Davis

Learning to Teach Statistics: Challenges and ML25 **Suggestions**— Candace Berrett, The Ohio State University; Jacqueline Miller, The Ohio State University

CC-Ballroom C 166 Section on Statistical Graphics Roundtable with Lunch (fee event)

Section on Statistical Graphics

Organizer(s): David Hunter, The Pennsylvania State University

ML26 Graphical Data Mining of Network Data—❖ George Michailidis, The University of Michigan

167 CC-Ballroom C Section on Statisticians in Defense and National Security Roundtable with Lunch (fee event)

Section on Statisticians in Defense and National Security Organizer(s): David Marchette, Naval Surface Warfare Center

Alamos National Laboratory

ML27 **Increasing Understanding of the Need for Statistics** in Defense and Security— Alyson G. Wilson, Los

Applied Session

CC-Salt Palace Convention Center Presenter

GA-The Grand America Hotel

CC-Ballroom C 168 Section on Statistics in Epidemiology Roundtable with Lunch (fee event)

Section on Statistics in Epidemiology

Organizer(s): William E. Barlow, Cancer Research and Biostatistics

Gerontologic Biostatistics and the Challenges of Conducting Biomedical Research with Older **Populations**—❖ Peter H. Van Ness, Yale University; Heather G. Allore, Yale University

169 CC-Ballroom C **Section on Survey Research Methods Roundtable** with Lunch (fee event)

Section on Survey Research Methods Organizer(s): David Marker, Westat

What Happened in Florida-13's Election Last Year, and What Can We Do To Improve Electoral Integrity?— *Arlene Ash, Boston University

170 CC-Ballroom C Social Statistics Section Roundtable with Lunch (fee event)

Social Statistics Section

Organizer(s): Jana Asher, Carnegie Mellon University

Linking Survey Data and Administrative Data for Policy ML30 **Research**— * Michael Davern, The University of Minnesota

Special Presentation 2:00 p.m.-3:50 p.m.

171 CC-Ballroom B Late-Breaking Session 1: Statistical Analysis of an Archeological Find—Other

ASA, ENAR, IMS, WNAR, SSC

Organizer(s): Allan Rossman, California Polytechnic State University Chair(s): Hal Stern, University of California, Irvine

Critic (6), 11th Sterri, Elitrer Stery Sy Stilly Strikes			
2:05 p.m.	Statistical Analysis of an Archeological Find— *Andrey Feuerverger, University of Toronto		
2:50 p.m.	Disc: Aleks Jakulin, Columbia University		
3:05 p.m.	Disc: Stephen Fienberg, Carnegie Mellon University		
3:20 p.m.	Disc: Donald Bentley, Pomona College		
3:35 p.m.	Floor Discussion		

Invited Sessions 2:00 p.m.-3:50 p.m.

CC-255 C 172

Statistical Issues in High-Dimensional Omics Data and Biomarker Discovery—Invited

Biopharmaceutical Section, ENAR, Biometrics Section Organizer(s): Lei Zhu, GlaxoSmithKline

Chair(s): Lei Zhu, GlaxoSmithKline

Systems-Based Analysis of Metabolic Profiles— 2:05 p.m. Jacqueline M. Hughes-Oliver, North Carolina

State University

Toward Superior Classifications with ABC 2:30 p.m.

Dissimilarities: A Microarray Case Study— ❖Dhammika Amaratunga, Johnson & Johnson PRD; Javier Cabrera, Rutgers University; Vladimir Kovtun, Rutgers University

2:55 p.m. Sample Size Estimation for Omics Experiments—

Gregory R. Warnes, University of Rochester;

Peng Liu, Iowa State University

3:20 p.m. Disc: Kwan Lee, GlaxoSmithKline

3:40 p.m. Floor Discussion

CC-255 A 173

Methods To Identify and Adjust for Selection Bias in Observational Studies—Invited

Section on Statistics in Epidemiology, Section on Health Policy Statistics, Section on Risk Analysis, Section on Teaching Statistics in the Health Sciences, WNAR

Organizer(s): Robert Glynn, Brigham and Women's Hospital Chair(s): Robert Glynn, Brigham and Women's Hospital

2:05 p.m. **Propensity Score Calibration with Validation** Data— Til Stürmer, Brigham and Women's Hospital; Sebastian Schneeweiss, Brigham and Women's Hospital; Kenneth J. Rothman, Brigham and Women's Hospital; Jerry Avorn, Brigham and Women's Hospital; Robert Glynn, Brigham and Women's Hospital

2:30 p.m. Bayesian Methods to Acknowledge Confounding and Mismeasurement— Paul Gustafson, University of British Columbia; Lawrence

McCandless, University of British Columbia

2:55 p.m. Instrumental Variables in

Pharmacoepidemiology— & M. Alan Brookhart,

Brigham and Women's Hospital

3:20 p.m. Disc: Sander Greenland, University of

California, Los Angeles

Floor Discussion 3:40 p.m.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

174 CC-251 B

◆ Advances in Contemporary Nonparametric
Methods—Invited

Section on Nonparametric Statistics

Organizer(s): Soumendra N. Lahiri, Texas A&M University

Chair(s): Daniel Nordman, Iowa State University

2:05 p.m. On Least-Squares Fitting for Spatial Point
Processes—& Michael Sherman, Texas A&M
University; Yongtao Guan, Yale University

2:30 p.m. A GCV Approach for Bandwidth Selection in PET Image Reconstruction—* Ranjan Maitra, Iowa

State University

2:55 p.m. Minimax Estimators of the Coverage Probability of the Impermissible Error for a Location Family—

*Miguel A. Arcones, Binghamton University

3:20 p.m. Higher-Order Properties of Block Bootstrap

Confidence Intervals— Soumendra N. Lahiri,

Texas A&M University

3:45 p.m. Floor Discussion

175 CC-257

• The Transition from Undergraduate to Graduate Study of Statistics—Invited

Mu Sigma Rho, Section on Statistical Education

Organizer(s): Marcia Gumpertz, North Carolina State University Chair(s): Marcia Gumpertz, North Carolina State University

2:05 p.m. Inspiring and Challenging Students in the Mathematical Sciences— *William Y. Velez, The

University of Arizona

2:25 p.m. Undergraduate Preparation—& L. Marlin Eby,

Messiah College

2:45 p.m. The First-Year Experience— Matthew Ritter,

North Carolina State University

3:05 p.m. The First-Year of Graduate Studies in Statistics—

*Pam Arroway, North Carolina State University

3:25 p.m. Disc: Julie Legler, St. Olaf College

3:45 p.m. Floor Discussion

176 CC-255 F

State of the Art in Mixed Models Analysis— Invited

ENAR, Section on Statistics in Epidemiology, Biometrics Section, Biopharmaceutical Section, WNAR

Organizer(s): Matthew Gurka, University of Virginia

Chair(s): Keith E. Muller, University of Florida

2:05 p.m. Sample Size and Power Calculations in Late-Phase

Clinical Trials with a Longitudinal Endpoint—* Jose

Pinheiro, Novartis Pharmaceuticals

2:30 p.m. Internal Pilot Designs and Mixed Models—

* Matthew Gurka, University of Virginia; Christopher S. Coffey, The University of Alabama at Birmingham; Keith E. Muller,

University of Florida

2:55 p.m. Assessing the Performance of a Symmetric

Divergence Information Criterion for Selecting the Best Linear Mixed Model—*Lloyd J. Edwards, The University of North Carolina at Chapel Hill; Anita Abraham, The University of North

Carolina at Chapel Hill

3:20 p.m. Disc: Oliver Schabenberger, SAS Institute Inc.

3:40 p.m. Floor Discussion

177 CC-251 D

Machine Learning and Optimization—Invited

IMS, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences

Organizer(s): Jon D. McAuliffe, University of Pennsylvania Chair(s): Jon D. McAuliffe, University of Pennsylvania

2:05 p.m. Support Vector Machines for Structured Outputs—

Thorsten Joachims, Cornell University

2:35 p.m. Large-Scale Covariance Selection by Chordal

Embedding— Lieven Vandenberghe, University of California, Los Angeles; Joachim Dahl,

Aalborg University

3:05 p.m. Model Selection for SVMs through Bilevel

Optimization—**❖** Gautam Kunapuli, Rensselaer

Polytechnic Institute

3:35 p.m. Floor Discussion

178 CC-250 D

◆ Analyzing Multiple-Response Categorical Data from Complex Survey Designs—Invited

Section on Survey Research Methods, SSC

Organizer(s): Thomas M. Loughin, Simon Fraser University Chair(s): Thomas M. Loughin, Simon Fraser University

2:05 p.m. Simple Practitioner-Oriented Hypothesis Tests for

Various Types of Multiple Response Survey Data— ❖ D. Roland Thomas, Carleton University; Yves

J. Decady, Statistics Canada

GA-The Grand America Hotel

2:30 p.m. **Estimation and Testing for Association with** 3:05 p.m. Multiple-Response Categorical Variables from **Complex Surveys**— Christopher R. Bilder, 3:35 p.m. University of Nebraska-Lincoln; Thomas M. Loughin, Simon Fraser University 181 2:55 p.m. Bayesian Inference for a Stratified Categorical Variable Allowing All Possible Category Choices— Balgobin Nandram, Worcester Polytechnic Institute; & Myron Katzoff, National Center for Health Statistics; Ma Criselda S. Toto,

Applied Session

Presenter

Worcester Polytechnic Institute Disc: Robert Fay, U.S. Census Bureau

3:40 p.m. Floor Discussion

3:20 p.m.

Themed Session

179 CC-155 F

Fifty Years of the National Health Interview Survey—Invited

Section on Health Policy Statistics, Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section, Section on Statistics in Epidemiology

Organizer(s): Jane F. Gentleman, National Center for Health Statistics Chair(s): Van Parsons, National Center for Health Statistics

2:05 p.m. The Evolution of Concepts in the National Health Interview Survey— * Jennifer Madans, National Center for Health Statistics

2:30 p.m. Policy Uses of National Health Interview Survey (NHIS) Data on Health Insurance Coverage— Amy J. Davidoff, University of Maryland

The National Health Interview Survey in the 2:55 p.m. Present and in the Future—* Jane F. Gentleman, National Center for Health Statistics

3:20 p.m. Fifty Years of the National Health Interview Survey— Nancy Breen, National Cancer Institute

Floor Discussion 3:45 p.m.

CC-355 E 180

Financial Econometrics—Invited

Organizer(s): Jianqing Fan, Princeton University Chair(s): Tony Cai, University of Pennsylvania

Local Parametric Inference in the Hidden 2:05 p.m. Semimartingale Model—❖ Per A. Mykland, The

University of Chicago

Parameter Estimation of Diffusion Process 2:35 p.m. with Sequential Monte Carlo— Rong Chen,

University of Illinois at Chicago

Heterogeneous Autoregressive Realized Volatility

Model— *Yazhen Wang, University of Connecticut

Floor Discussion

CC-Salt Palace Convention Center

CC-355 B

Large-Scale Data Mining—Invited

Section on Statistical Computing, Section on Statisticians in Defense and National Security, Section on Quality and Productivity, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences, Section on Statistical Graphics

Organizer(s): Edward Wegman, George Mason University; Yasmin H. Said, George Mason University

Chair(s): David W. Scott, Rice University

2:05 p.m. A New Family of Link Functions Extending Logistic

Regression— * William DuMouchel, Lincoln

Technologies

2:35 p.m. Statistics and Search Engines— Daryl Pregibon,

3:05 p.m. A Poor Man's View of Data Mining— * William F.

Szewczyk, National Security Agency

3:35 p.m. Floor Discussion

CC-155 B 182

Missing Data in Longitudinal Studies—Invited

SSC, ENAR, Section on Statistics in Epidemiology, Biometrics Section, Biopharmaceutical Section, Section on Survey Research Methods, WNAR Organizer(s): Lang Wu, University of British Columbia

Chair(s): Lang Wu, University of British Columbia

2:05 p.m. Mixed Nonhomogeneous Poisson Process Spline Models for the Analysis of Recurrent Event Panel

Data— * Jason Nielsen, Simon Fraser University; Charmaine Dean, Simon Fraser University

Reducing the Bias of Between- Within-Cluster 2:30 p.m.

Covariate Methods When Data Are Missing at Random—* John Neuhaus, University of California, San Francisco; Charles E. McCulloch,

University of California, San Francisco

2:55 p.m. Semiparametric Methods for Clustered Binary

> Wenging He, University of Western Ontario;

Hua Liang, University of Rochester

Second-Order Least Squares Estimation for 3:20 p.m.

Nonlinear Mixed Effects Models—& Liqun Wang,

University of Manitoba

Floor Discussion 3:45 p.m.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Invited Panels 2:00 p.m.-3:50 p.m.

183 CC-254 A

Summer Institutes for Training in Biostatistics (SIBS): Addressing the Biostatistician Shortage—Invited

Section on Teaching Statistics in the Health Sciences, ENAR, Biometrics Section, Section on Statistical Education

Organizer(s): Walter T. Ambrosius, Wake Forest University Chair(s): Walter T. Ambrosius, Wake Forest University

Panelists:

- Song Yang, National Heart, Lung, and Blood Institute
- Ronald E. Gangnon, University of Wisconsin-Madison
- Lisa M. Sullivan, Boston University
- Kimberly S. Weems, North Carolina State University

3:45 p.m. Floor Discussion

184 CC-254 C

Rising from the Ashes of the SIPP: Opportunities and Challenges of the New Dynamics of Economic Well-Being System—Invited

Social Statistics Section, Section on Government Statistics, Section on Survey Research Methods

Organizer(s): Daniel Kasprzyk, Mathematica Policy Research, Inc. Chair(s): Daniel Kasprzyk, Mathematica Policy Research, Inc.

Panelists:

- David Johnson, U.S. Census Bureau
- Constance F. Citro, National Academy of Sciences
- * Howard Iams, Social Security Administration
- Martin David, University of Wisconsin-Madison
- John Czajka, Mathematica Policy Research, Inc.

3:45 p.m. Floor Discussion

Invited Poster Presentations 2:00 p.m.-3:50 p.m.

185 CC-Exhibit Hall D Invited Poster Presentations—Invited

Section on Statistics and the Environment, ENAR, IMS, SSC, WNAR, Biometrics Section

Chair(s): Dongseok Choi, Oregon Health & Science University

Spatial statistics, spatio-temporal modeling

- Estimation of Covariogram Models by Minimum Prediction Contrast for Kriging—& Marc Genton, University of Geneva; Olivier Perrin, University of Toulouse 1
- Experiments on the Earth: Smoothing and Spatial
 Statistics for Geophysical Applications Using Fields—
 Stephan Sain, National Center for Atmospheric
 Research; Reinhard Furrer, Colorado School of Mines;
 Douglas Nychka, National Center for Atmospheric
 Research
- 52 Stochastic Space-Time Regional Rainfall Modeling
 Adapted to Historical Rain Gauge Data—* Zepu Zhang,
 The University of Chicago; Paul Switzer, Stanford
 University
- Black Diamond Ski Runs and the Fields R Package—
 Douglas Nychka, National Center for Atmospheric Research

Environmetrics, ecology, agriculture, wildlife management

- 54 Reconstruction of NH Average Temperature by Hierarchical Bayesian Models— Bo Li, National Center for Atmospheric Research; Douglas Nychka, National Center for Atmospheric Research; Caspar Ammann, National Center for Atmospheric Research
- 55 Choice of Basis Functions in GAM Models of Air Pollution and Respiratory Health—& Chava Zibman, The University of Chicago; Vanja Dukic, The University of Chicago
- Statistical Approaches to El Niño Forecasting—
 Souparno Ghosh, Texas A&M University; Amanda
 S. Hering, Texas A&M University; Salil Mahajan, Texas
 A&M University; Marc Genton, University of Geneva;
 Mikyoung Jun, Texas A&M University; Bani Mallick,
 Texas A&M University; Ramalingam Saravanan, Texas
 A&M University
- An International Comparison of Air Quality Standards—
 Peter Guttorp, University of Washington; Laura Knudsen, University of Washington
- 58 Space-Time Bayesian Environmental Modeling of the Chronic Wasting Disease in Deer—& Hae-Ryoung Song, University of South Carolina; Andrew B. Lawson, University of South Carolina; Dennis Heisey, U.S. Geological Survey; Damien Joly, Alberta Sustainable Resource Development
- 59 Source Apportionment and Health Effects of Air Pollution— *Thomas Lumley, University of Washington

Applications and case studies

60 The Exploration of Space-Time Data—❖ Li Chen, The University of Chicago; Michael Stein, The University of Chicago

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Topic-Contributed Sessions 2:00 p.m.–3:50 p.m.

186 CC-155 D

Quantifying and Hedging Operational Risk— Topic-Contributed

Section on Risk Analysis

Organizer(s): Deborah Cernauskas, IBM

Chair(s): Anton Schick, Binghamton University

2:05 p.m. Quantifying Project Management Delay Costs
Through Simulation Modeling—* Andrew
Kumiega, Spectrum Global; Deborah
Cernauskas, IBM

2:25 p.m. Environmental Risk Mitigation and Corporate Competitiveness—* Nasrin Khalili, IIT Stuart School of Business

2:45 p.m. A Methodology for Trading and Investment System
Development— & Benjamin Van Vliet, Illinois
Institute of Technology; Andrew Kumiega,
Spectrum Global

3:05 p.m. Vendor Bid Evaluation Using a Risk-Adjusted Price Methodology—* Deborah Cernauskas, IBM

3:25 p.m. Project Portfolio Optimization for Operational Risk Management—& Aberrahim Labbi, IBM/Zurich

Labs

3:45 p.m. Floor Discussion

187 CC-355 F

● Model Selection and Applications—Topic-Contributed

Biometrics Section, ENAR

Organizer(s): Ronghui Xu, University of California, San Diego Chair(s): Ronghui Xu, University of California, San Diego

2:05 p.m. Adaptive Regressograms— Anthony Gamst, University of California, San Diego

2:25 p.m. On L1-Norm Multiclass Support Vector Machines:
Classification of High-Dimension, Low Sample
Size Data—*Lifeng Wang, University of
Pennsylvania; Xiaotong Shen, The University of
Minnesota

2:45 p.m. Fence Methods for Quantitative Trait Loci Mapping in Humans—* Thuan Nguyen, University of California, Davis; Jiming Jiang, University of California, Davis; Jie Peng, University of California, Davis

3:05 p.m. Model Selection Under the Proportional Hazards Mixed Effects Model (PHMM)—*Michael

Donohue, University of California, San Diego; Ronghui Xu, University of California, San Diego; Anthony Gamst, University of California, San Diego; Florin Vaida, University of California, San Diego; David P. Harrington, Dana-Farber Cancer Institute

3:25 p.m. Model Selection for Partial Spline Models—& Hao Zhang, North Carolina State University

3:45 p.m. Floor Discussion

188 CC-251 C

◆ Statistical Challenges in Evolutionary Biology—Topic-Contributed

IMS

Organizer(s): Vladimir N. Minin, University of California, Los Angeles Chair(s): Marc A. Suchard, University of California, Los Angeles

2:05 p.m. Analysis of Count Data with Phylogenetic Random Effects—*Cecile Ane, University of Wisconsin-Madison

2:25 p.m. Coalescent-Based Inference of Population
Dynamics with Gaussian Markov Random Field
Temporal Smoothing—*Vladimir N. Minin,
University of California, Los Angeles; Marc A.
Suchard, University of California, Los Angeles

3:05 p.m. Measures of Volatility and Valency for Serially Sampled Nucleotide Sequences—& John O'Brien, University of California, Los Angeles

3:25 p.m. Phylogenies Unplugged: Consensus Trees with Wandering Taxa— & Benjamin Redelings, North Carolina State University

3:45 p.m. Floor Discussion

189 CC-251 F

◆ Statistics and Machine Learning in High Dimension—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Samiran Ghosh, Indiana University Purdue University Indianapolis

Chair(s): Melanie Wilson, Duke University

2:05 p.m. Estimating Rates of Rare Events in Massive Web Applications—*Deepak Agarwal, Yahoo!

Research

Applied Session

of Washington; Adrian E. Raftery, University of

Washington; Tilmann Gneiting, University of

2:25 p.m.	Robust Test for Detecting a Signal in a High- Dimensional Sparse Normal Vector—* Junyong Park, University of Maryland, Baltimore County; Eitan Greenshtein, Statistical and Applied	3:25 p.m. 191 Synthetic	Floor Discussion CC-250 C	
	Mathematical Sciences Institute	•	Data and Other Methods for Disclosure n and Confidentiality Preservation—	
2:45 p.m.	Learning Gradients and Feature Selection on Manifolds— Sayan Mukherjee, Duke University	Topic-Co	ntributed urvey Research Methods, Social Statistics Section	
3:05 p.m.	Feature Extraction for Classification of Functional Data— & Bin Li, Louisiana State University; Qingzhao Yu, Louisiana State University Health	Organizer(s): Michael D. Larsen, Iowa State University Chair(s): Sam Hawala, U.S. Census Bureau		
	Sciences Center	2:05 p.m.	Microdata Simulation for Confidentiality Protection	
3:25 p.m.	Dimension Augmenting Vector Machine: A New General Classifier System for Large p Small n Problem— Samiran Ghosh, Indiana University Purdue University Indianapolis; Yazhen Wang, University of Connecticut; Dipak Dey, University of Connecticut	2:25 p.m.	Using Regression Quantiles and Hot Deck— *Jennifer Huckett, Iowa State University; Michael D. Larsen, Iowa State University Releasing Multiply Imputed, Synthetic Data Generated in Two Stages To Protect Confidentiality— *Joerg Drechsler, Institute for	
3:45 p.m.	Floor Discussion		Employment Research; Jerome P. Reiter, Duke University	
190 CC-251 A ■ Section on Bayesian Statistics Student Paper Competition: Network Models, Reliability, and		2:45 p.m.	Multiple Imputation Alternatives to Top-Coding for Statistical Disclosure Control—& Di An, University of Michigan; Roderick J. Little, University of Michigan	
	n—Topic-Contributed	3:05 p.m.	Secure Logistic Regression—*Yuval Nardi,	
	nyesian Statistical Science : Merlise A. Clyde, Duke University		Carnegie Mellon University; Stephen Fienberg,	
_	nsheng Zhu, Pharmaceutical Product Development, Inc		Carnegie Mellon University; Aleksandra Slavkovic, The Pennsylvania State University	
2:05 p.m.	A Bayesian Mixed Effects Model for Longitudinal Social Network Data-Student Paper Competitions—* Anton Westveld, Washington University in St. Louis; Peter D. Hoff, University	3:25 p.m.	Application of the Truncated Triangular and the Trapezoidal Distributions for Developing Multiplicative Noise—*Jay J. Kim, National Center for Health Statistics	
	of Washington	3:45 p.m.	Floor Discussion	
2:25 p.m.	Bayesian Network-Based Process Monitoring and Diagnosis in Complex Manufacturing Systems— * Jing Li, The University of Michigan; Jianjun Shi, The University of Michigan; Jionghua Jin, The University of Michigan	Topic-Co	CC-258 ing Longitudinal Data in Epidemiology— ntributed	
2:45 p.m.	The Dependent Poisson Race Model and Modeling Dependence in Conjoint Choice Experiments (Student Paper Competition)— Shiling Ruan, The Ohio State University; Steven N. MacEachern, The Ohio State University; Thomas Otter, The Ohio State University;		tatistics in Epidemiology, Biometrics Section, ENAR, Section licy Statistics, Section on Teaching Statistics in the Health	
		Organizer(s): Sarah Ratcliffe, University of Pennsylvania; Mary D. Sammel, University of Pennsylvania		
			omas R. Tenhave, University of Pennsylvania	
2:05 n m	Angela Dean, The Ohio State University Probabilistic Weather Forecasting for Winter Road	2:05 p.m.	Computationally Efficient Estimation of Multilevel High-Dimensional Latent Variable Models—	
3:05 p.m.	Maintenance— Veronica J. Berrocal, University		*Bengt Muthén, University of California,	

Presenter

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Los Angeles; Tihomir Asparouhov, Muthén &

Muthén

Washington

Themed Session • Applied Session • Presenter • CC-Salt Palace Convention Center • GA-The Grand America Hotel

2:45 p.m. Longitudinal Latent Variable Models in Environmental Epidemiology— & Brisa Sanchez, University of Michigan

3:05 p.m. Bayesian Multivariate Growth Curve Latent Class Models for Mixed Outcomes— Benjamin E. Leiby, Thomas Jefferson University; Mary D. Sammel, University of Pennsylvania; Thomas R. Tenhave, University of Pennsylvania; Kevin G. Lynch, University of Pennsylvania

3:25 p.m. Modeling Longitudinal Steroid Hormone Levels for Predicting Menopausal Symptoms—*Mary D. Sammel, University of Pennsylvania; Jeanne Manson, Children's Hospital of Philadelphia; Ellen W. Freeman, University of Pennsylvania

193 CC-259

Smoothing Spline Methods and Their Applications—Topic-Contributed

Floor Discussion

WNAR, Biometrics Section

3:45 p.m.

Organizer(s): Li Qin, Fred Hutchinson Cancer Research Center Chair(s): Xiaoming Sheng, University of Utah

2:05 p.m. Nonparametric Hazard Estimation for Gap Time in Recurrent Event Data— Pang Du, Virginia Polytechnic Institute and State University

2:25 p.m. Spectral Density Estimation via State Space
Modeling—* Li Qin, Fred Hutchinson Cancer
Research Center; Dongfeng Li, Fred Hutchinson
Cancer Research Center

2:45 p.m. Pointwise Consistency of Smoothing Spline
Estimate— Ming Dai, The University of
North Carolina at Charlotte; Wensheng Guo,
University of Pennsylvania

3:05 p.m. M-Type Smoothing Spline ANOVA for Correlated
Data—* Anna Liu, University of Massachusetts
Amherst; John Staudenmayer, University
of Massachusetts Amherst; Li Qin, Fred
Hutchinson Cancer Research Center

3:25 p.m. Penalized Functional Principal Components
Analysis Using a Kullback-Leibler Criterion—
*Robert Krafty, University of Pennsylvania;
Wensheng Guo, University of Pennsylvania

3:45 p.m. Floor Discussion

Topic-Contributed Panels 2:00 p.m.-3:50 p.m.

194 CC-251 E

◆ ② What Have We Learned from Results of Primary Prevention Cardiovascular Medical Device Mortality Trials?—Topic-Contributed

Biopharmaceutical Section, ENAR

Organizer(s): Gosford Sawyerr, Purdue Pharma, LP

Chair(s): Dalene Stangl, Duke University

Laura Thompson, Food and Drug Administration

Andrew Mugglin, The University of Minnesota

David Breiter, Boston Scientific Corporation

W. Jackson Hall, University of Rochester

3:45 p.m. Floor Discussion

195 CC-255 B

● © Career Opportunities for Biostatisticians: Perspectives from Industry, Government, and Academics—Topic-Contributed

Biopharmaceutical Section, ENAR, Section on Statistical Consulting, WNAR Organizer(s): Tammy Massie, U.S. Food and Drug Administration Chair(s): Tristan Massie, U.S. Food and Drug Administration

Panelists:

- Tammy Massie, Food and Drug Administration
- Stacey Cofield, The University of Alabama at Birmingham
- Carol Summitt, Wyeth
- Laura Stets, U.S. Food and Drug Administration

3:45 p.m. Floor Discussion

Contributed Sessions 2:00 p.m.-3:50 p.m.

196 CC-355 C

◆ Recent Advances in Microarray Data Analysis II—Contributed

Biometrics Section

Chair(s): Tian Zheng, Columbia University

2:05 p.m. Model-Based Approach for Cancer Outlier

Differential Gene Expression Detection—❖ Baolin

Wu, The University of Minnesota

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

	T.Applica Seconds.	o oun rundo	50
2:20 p.m.	Application of Discrimination Method on Combining Gene Expression Data of Kidney Transplant Patients—* Xiangrong Kong, Virginia Commonwealth University; Kellie J. Archer,	3:20 p.m.	Mutual Information for the Mixture of Two Multivariate Distributions— Walfredo Javier, Southern University-Baton Rouge; Arjun K. Gupta, Bowling Green State University
0.25 n m	Virginia Commonwealth University	3:35 p.m.	Floor Discussion
2:35 p.m.	Selection and Validation of Normalization Methods for c-DNA Microarrays Using Within-Array		
	Replications— * Yue Niu, Princeton University;	198	CC-255 E
	Jianqing Fan, Princeton University		ing Data in Clinical Trials—Contributed
2:50 p.m.	Inverse Regression Estimation for Censored	Biopharmaceutical Section, Biometrics Section Chair(s): Xiaodong Li, Merck & Co., Inc.	
	Data— Nivedita Nadkarni, University of		
	Wisconsin-Madison; Michael Kosorok, The University of North Carolina at Chapel Hill	2:05 p.m.	Handling Missing Data in Long-Term Clinical Trials—❖ Wei Deng, Amylin Pharmaceuticals,
3:05 p.m.	Microarray Analysis: P-Values, Filtering, and Multiple Testing Adjustments— & Ann Hess,		Inc.; Xuesong Guan, Amylin Pharmaceuticals, Inc.; Chien-Feng Chen, Amylin Pharmaceuticals, Inc.
2:20 n m	Colorado State University Distribution-Based Classification with Application	2:20 p.m.	Something Might Be Missed in Missing Data
3:20 p.m.	to Gene Expression Data Analysis—* Xuelian Wei, University of California, Los Angeles; Ker-	·	Analysis—❖ Xiang Guo, sanofi-aventis; Guangrui Zhu, Eisai Medical Research Inc.
	Chau Li, University of California, Los Angeles	2:35 p.m.	A Comparison of Imputation Methods in a
3:35 p.m.	Floor Discussion		Randomized Active Comparator Pain Relief Clinical Trial—*Adam Hamm, Rho, Inc.
Contribut		2:50 p.m.	Some Remarks on Multiple Imputations in Longitudinal Data Context— Mohammed K. Alam, Kendle International Inc.; Marepalli B. Rao, University of Cincinnati; Ramesh N.
Biometrics Se			Amatya, Kendle International Inc.; Claudia Lara,
	ixin Yao, The Pennsylvania State University	2.05	Kendle International Inc.
2:05 p.m.	Mixture or Homogeneous: Modeling Placebo Response—& Thaddeus Tarpey, Wright State University; Dong Yun, Wright State University; Eva Petkova, New York University	3:05 p.m.	A Resampling-Based Approach To Test If a Model Provides Unbiased Parameter Estimates Under Various Missing Data Assumptions—* Maria M. Sanchez, Merck & Co., Inc.; Edmund Luo,
2:20 p.m.	Mis-specification Bias in Poisson Mixture Models:	2:20 n m	Merck & Co., Inc. Properties of Missing Data Imputation Methods:
	Gamma versus Lognormal— Woollcott Smith, Temple University; Shuo Zheng, Temple University	3:20 p.m.	Baseline or Worst Observation Carry Forward— * Jun Shao, University of Wisconsin-Madison;
2:35 p.m.	On Some Computational Issues in Marginal Latent Mixture Analysis— * Yan Yang, Arizona State University; Douglas Simpson, University of		David Jordan, Abbott Laboratories; Yannis Jemiai, Cytel Inc.; Yili Pritchett, Abbott Laboratories
	Illinois	3:35 p.m.	Partial FEFI for Incomplete Tables with
2:50 p.m.	Parametric Mixture Model for Survival Data— *Ying Zhang, Wyeth; Jagbir Singh, Temple University		Covariates— Shin-Soo Kang, Iowa State University; Kenneth Koehler, Iowa State University; Michael D. Larsen, Iowa State University
3:05 p.m.	Prediction by Trajectory Modeling Approach— Nami Maruyama, Kitasato University; Fumiaki Takahashi, Kitasato University; Hajime Uno, Kitasato University; Masahiro Takeuchi, Kitasato University		

◆ Themed Session ◆ Applied Session ◆ Presenter CC-Salt Palace Convention Center GA-The Grand America Hotel

199	CC-255 D		Research Laboratory; Jin Dong, IBM China
	ling Time to-Event Data from Clinical		Research Laboratory
	ontributed	2:35 p.m.	Assortment Planning Under Dynamic Customer
Biopharmaceu	nical Section ph G. Pigeon, Villanova University		Substitution and Cross-Selling— * Jin Dong, IBM China Research Laboratory; Xinxin Bai, IBM
2:05 p.m.	Controlling for Time-Dependent Confounding		China Research Laboratory; Wen Jun Yin, IBM
2.03 p.iii.	Using Marginal Structural Models in the Case of a Continuous Treatment Covariate—*Ouhong		China Research Laboratory; Ming Xie, IBM China Research Laboratory
	Wang, Amgen Inc.; Trevor McMullan, Validant Consulting	2:50 p.m.	Statistical Methods for Accounts Receivable Tracking and Forecasting—* Alejandro Veen, IBM T.J. Watson Research Center; Yasuo
2:20 p.m.	Evaluating Treatment Effect in Randomized Trials with Learning Effect: An Application to	0.05	Amemiya, IBM T.J. Watson Research Center
	Contraceptive Device Trials—*Pai-Lien Chen, Family Health International	3:05 p.m.	The Role of Six Sigma in Achieving Perfection— *Mohammad Quasem, Howard University; Daniel Owunwanne, Howard University
2:35 p.m.	Robust Assessment of Survival Differences Using Multiple Testing Procedures—* Larry Ma,	3:20 p.m.	Estimating Taint in a Population of Insurance
	Temple University; Devan V. Mehrotra, Merck & Co., Inc.; Woollcott Smith, Temple University		Claims—* Andrew Ostarello, Exponent, Inc.; Duane Steffey, Exponent, Inc.
2:50 p.m.	An Empirical Test for Using a Cox Proportional Hazards Model with Time-Varying Hazard Ratios	3:35 p.m.	Independence of Duplicate and Invalid Signatures on a Petition— * Mary Whiteside, University of
	in the Analysis of Cardiac Events of Hypertensive Patients— D. Das Purkayastha, Novartis		Texas at Arlington; Mark Eakin, University of Texas at Arlington
	Pharmaceuticals; Lynn Ashcraft, Novartis		201110 10 1 1111119001
	Pharmaceuticals	201	CC-355 A
3:05 p.m.	Nonproportional Hazards in Time-to-Event Analysis— * Yanqiong Zhang, Merck & Co., Inc.;	•	s of High-Dimensional Data—Contributed on Nonparametric Statistics, Biometrics Section
	Amarjot Kaur, Merck & Co., Inc.		nant Tiwari, The University of Alabama at Birmingham
3:20 p.m.	The Impact of Proportional Hazards Assumption on the Late Onset Survival Data—& Guoguang Ma, Amgen Inc.; Kathy Harris, Amgen Inc.	2:05 p.m.	Modeling Progression of Cerebrovascular Disease with Longitudinal MRI Data—*Qian Weng, University of California, Davis
3:35 p.m.	On Selection of Survival Models with Random Effects—* Yanhua Zhang, University of	2:20 p.m.	Quantile Rank Score Tests for Longitudinal Data— * Huixia Wang, North Carolina State University
	California, Davis	2:35 p.m.	Imaging Biomarkers and Sample Size Estimation— & Chunming Li, Pfizer Inc.
Contribute	CC-250 EF stics for Customer Relations— ed Economics Statistics Section	2:50 p.m.	Use of Satterthwaite Degree of Freedom in t- Statistic for Microarray Experiments with Fewer Replications— *Yu Ding, Merck & Co., Inc.; Damaraju Raghavarao, Temple University
Chair(s): Grad	ciela Gonzalez-Farias, Center for Mathematical Research	3:05 p.m.	Wavelet-Based Modeling of Clinical Outcomes
2:05 p.m.	Scoring Customer Probability of Runoff for Retention—& Huaiyu Ma, GE Global Research; Deniz Senturk-Doganaksoy, GE Global Research; Kareem Aggour, GE Global Research		Using Diffusion Tensor Image Data— ❖ William Prucka, The University of Alabama at Birmingham; Christopher S. Coffey, The University of Alabama at Birmingham; Gary Cutter, The University of Alabama at Birmingham;
2:20 p.m.	Customer Profiling and Mining with Multidimensional Statistical Analysis: The Case of Retail Banking Industry—*Ming Xie, IBM China Research Laboratory; Wen Jun Yin, IBM China		Daniel S. Reich, The Johns Hopkins University

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C	Themed Session ● Applied Session ❖ Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
3:20 p.m.	Local False Discovery Rate Estimation Based on Bootstrap Null Distribution of Control Group Samples—*Aixiang Jiang, Vanderbilt	2:20 p.m.	Fuzzy Estimation of Parameters in Statistical Models—&Ranee Thiagarajah, Illinois State University
	University; Yu Shyr, Vanderbilt University	2:35 p.m.	Accelerated Destructive Degradation Test
3:35 p.m.	Longitudinal Image Analysis of Change in Tumor/Brain Vascular Permeability Induced by Radiation—* Xiaoxi Zhang, University of		Planning—❖ Ying Shi, Iowa State University; Luis Escobar, Louisiana State University; William Meeker, Iowa State University
	Michigan; Timothy D. Johnson, University of Michigan; Roderick J. Little, University of Michigan	2:50 p.m.	A Comparison of Maximum Likelihood Estimation and Median Rank Regression for Weibull
			Estimation— Ulrike Genschel, Iowa State
202	CC-254 B	0.05	University; William Meeker, Iowa State University
Section on Bay	n Analysis in Clinical Trials—Contributed yesian Statistical Science, Biopharmaceutical Section fu Li, University of Houston-Clear Lake	3:05 p.m.	Availability and Cost Monitoring in Datacenters Using Mean Cumulative Functions—*David Trindade, Sun Microsystems, Inc.; Swami Nathan, Sun Microsystems, Inc.
2:05 p.m.	Assessment of Bayesian Estimates of Biomarker's	2.20 n m	·
	Surrogacy for a Time-to-Event Clinical Endpoint in a Single Trial—* Qian Shi, The University of	3:20 p.m.	Estimation from Aggregate Data—*Marc Fredette, HEC Montreal
	Iowa; Mary K. Cowles, The University of Iowa	3:35 p.m.	Comparison Sequential Testing for Reliability:
2:20 p.m.	A Bayesian Model for Sensitivity Analysis on		Optimal Truncation of Short Tests— Fefim H. Michlin, Technion; Genady Grabarnik, IBM T.J.
	Intent-to-Treat Population— Niko Kacirorti, University of Michigan		Watson Research Center; Elena Leshchenko, Technion
2:35 p.m.	*Claudia Pedroza, The University of Texas Health Science Center at Houston		
0.50		204	CC-155 C
2:50 p.m.	A New Latent Cure Rate Marker Model for Survival Data— \$ Sung Duk Kim, University	Design an	CC-155 C nd Analysis of Experiments and Other I Methods—Contributed
2:50 p.m.	A New Latent Cure Rate Marker Model for Survival Data—*Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of	Design an Statistica Section on Qu Sciences	nd Analysis of Experiments and Other Il Methods—Contributed lality and Productivity, Section on Physical and Engineering
·	A New Latent Cure Rate Marker Model for Survival Data—*Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut	Design an Statistica Section on Qu Sciences	and Analysis of Experiments and Other II Methods—Contributed Productivity, Section on Physical and Engineering Iliam Brenneman, Procter & Gamble
3:05 p.m.	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University	Design an Statistica Section on Qu Sciences	nd Analysis of Experiments and Other Il Methods—Contributed lality and Productivity, Section on Physical and Engineering
·	A New Latent Cure Rate Marker Model for Survival Data— \$Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— \$Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— \$Robin Mitra, Duke University; Jerome	Design an Statistica Section on Qu Sciences Chair(s): Will	and Analysis of Experiments and Other I Methods—Contributed I Meth
3:05 p.m. 3:20 p.m.	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University	Design an Statistica Section on Qu Sciences Chair(s): Will	Id Analysis of Experiments and Other I Methods—Contributed I Methods—I Methods I Methods I Methods—I Methods I Methods—I Methods I Methods—I Methods I Methods—I Methods I Methods I Methods—I Methods I Method
3:05 p.m.	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University	Design an Statistica Section on Qu Sciences Chair(s): Will 2:05 p.m.	Id Analysis of Experiments and Other I Methods—Contributed Islity and Productivity, Section on Physical and Engineering Isliam Brenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day—& William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology
3:05 p.m. 3:20 p.m.	A New Latent Cure Rate Marker Model for Survival Data—\$ Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials—\$ Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data—\$ Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast	Design an Statistica Section on Qu Sciences Chair(s): Will 2:05 p.m.	Id Analysis of Experiments and Other Il Methods—Contributed It was Productivity, Section on Physical and Engineering Itiam Brenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day— William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology Analysis of Optimization Experiments— James Delaney, Carnegie Mellon University; Roshan
3:05 p.m. 3:20 p.m.	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University of Chicago; James Dignam, The University of	Design an Statistica Section on Qu Sciences Chair(s): Will 2:05 p.m.	Id Analysis of Experiments and Other Il Methods—Contributed Is ality and Productivity, Section on Physical and Engineering Itiam Brenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day—* William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology Analysis of Optimization Experiments—* James Delaney, Carnegie Mellon University; Roshan Joseph, Georgia Institute of Technology Using Minimal Dependent Subsets To Evaluate Supersaturated Designs—* Arden Miller, University of Auckland
3:05 p.m. 3:20 p.m. 3:35 p.m. 203	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University of Chicago; James Dignam, The University of Chicago	Design an Statistica Section on Qu Sciences Chair(s): Will. 2:05 p.m.	Id Analysis of Experiments and Other I Methods—Contributed I Methods—I Methods I Methods—Contributed I Methods—
3:05 p.m. 3:20 p.m. 3:35 p.m. 203	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University of Chicago; James Dignam, The University of Chicago CC-155 E Sin Reliability—Contributed	Design an Statistica Section on Qu Sciences Chair(s): Will. 2:05 p.m.	Id Analysis of Experiments and Other I Methods—Contributed Iality and Productivity, Section on Physical and Engineering Itiam Brenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day— William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology Analysis of Optimization Experiments— James Delaney, Carnegie Mellon University; Roshan Joseph, Georgia Institute of Technology Using Minimal Dependent Subsets To Evaluate Supersaturated Designs— Arden Miller, University of Auckland Randomization of Factors in Multiphase Experiments— Theodore Bailey, Iowa State University
3:05 p.m. 3:20 p.m. 3:35 p.m. 203	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University of Chicago; James Dignam, The University of Chicago CC-155 E Sin Reliability—Contributed	Design an Statistica Section on Qu Sciences Chair(s): Will 2:05 p.m.	Id Analysis of Experiments and Other I Methods—Contributed Is ality and Productivity, Section on Physical and Engineering It is a Prenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day—* William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology Analysis of Optimization Experiments—* James Delaney, Carnegie Mellon University; Roshan Joseph, Georgia Institute of Technology Using Minimal Dependent Subsets To Evaluate Supersaturated Designs—* Arden Miller, University of Auckland Randomization of Factors in Multiphase Experiments—* Theodore Bailey, Iowa State
3:05 p.m. 3:20 p.m. 3:35 p.m. 203	A New Latent Cure Rate Marker Model for Survival Data— Sung Duk Kim, University of Connecticut; Yingmei Xi, University of Connecticut; Ming-Hui Chen, University of Connecticut Bayesian Analysis of Incomplete Data in Crossover Trials— Sanjib Basu, Northern Illinois University Propensity Score Matching for Causal Inference When Multiply Imputing Missing Covariate Data— Robin Mitra, Duke University; Jerome P. Reiter, Duke University Flexible Modeling of the Hazard Function for Breast Cancer Recurrence—Vanja Dukic, The University of Chicago; James Dignam, The University of Chicago CC-155 E S in Reliability—Contributed sical and Engineering Sciences, Section on Quality and	Design an Statistica Section on Qu Sciences Chair(s): Will. 2:05 p.m.	Id Analysis of Experiments and Other I Methods—Contributed Iality and Productivity, Section on Physical and Engineering Itiam Brenneman, Procter & Gamble Design and Analysis of Material Characterization Experiments with Few Runs per Day—* William Guthrie, National Institute of Standards and Technology; Kenneth W. Pratt, National Institute of Standards and Technology Analysis of Optimization Experiments—* James Delaney, Carnegie Mellon University; Roshan Joseph, Georgia Institute of Technology Using Minimal Dependent Subsets To Evaluate Supersaturated Designs—* Arden Miller, University of Auckland Randomization of Factors in Multiphase Experiments—* Theodore Bailey, Iowa State University Change Point Detection Using Nonparametric

GA-The Grand America Hotel Themed Session Applied Session CC-Salt Palace Convention Center Presenter

3:20 p.m. A Comparison of Model Combining Methods— Lihua Chen, The University of Toledo; Panayotis Giannakouros, University of Missouri-Kansas City

3:35 p.m. Within-Sample Prediction of Future Failure Times Based on Type-II Censored Samples from the **Birnbaum-Saunders Distribution—**◆ Kevin S. McCarter, Louisiana State University

205 CC-155 A

Mixture Models and Expectation Maximization— Contributed

Section on Statistical Computing, Business and Economics Statistics Section, IMS, Section on Statistical Graphics

Chair(s): David Marchette, Naval Surface Warfare Center

Nonparametric Transformation of the Data to 2:05 p.m. Obtain Bias Reduction in Kernel Estimation of the Distribution Function of Nonstandard Mixtures—❖ Ennis McCune, Stephen F. Austin State University; Sandra L. McCune, Stephen F. Austin State University

2:20 p.m. Fitting Mixture Distributions Using Generalized Lambda Distributions (GLDs): Examples, Comparisons with Normal Mixtures, and Computational Considerations— * Wei Ning, Bowling Green State University; E. J. Dudewicz, Syracuse University

Acceleration of the EM Reconstruction Algorithm 2:35 p.m. for PET Images Using Squared Iterative Methods— Constantine E. Frangakis, The Johns Hopkins University; Ravi Varadhan, The Johns Hopkins

> University; Christophe Roland, University of Science and Technology at Lille

2:50 p.m. Improving the Efficiency of the Monte Carlo EM Algorithm Using Squared Iterative Methods— Ravi Varadhan, The Johns Hopkins University; Brian S. Caffo, Johns Hopkins Bloomberg School of Public Health; Wolfgang Jank, University of Maryland

3:05 p.m. Generalized t-Copula and Its Application on Biometric— Wenmei Huang, Michigan State University; Sarat Dass, Michigan State University

3:20 p.m. Comparison of the Six Sigma and Lean Sigma on the IT Management Processes— Genady Grabarnik, IBM T.J. Watson Research Center; Larisa Shwartz, IBM T.J. Watson Research Center

3:35 p.m. Floor Discussion

CC-260 206

Online Evaluations, Online Discussions, Podcasts, and Electronic Assessment Systems—Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Chair(s): Liam M. O'Brien, Colby College

From Paper-and-Ink to Online Evaluation: A New 2:05 p.m. Computer Maple TA-Based—&Li Wang, Student; Yulia R. Gel, University of Waterloo; Sean Scott, University of Waterloo

Group Discussions in an Online Statistics Course: 2:20 p.m. The Role of the Instructor— Michelle Everson. The University of Minnesota

The Benefits of Using a Course Disk To Aid in the 2:35 p.m. Instruction of Statistics Courses— Jamis Perrett, University of Northern Colorado

2:50 p.m. **Electronic Assessment Systems for Introductory** Statistics Courses I— * John McKenzie, Babson College

3:05 p.m. **Electronic Assessment Systems for Introductory** Statistics Courses II— Patricia Humphrey, Georgia Southern University

3:20 p.m. **Electronic Assessment Systems for Introductory** Statistics Courses III— William Rybolt, Babson College

3:35 p.m. Use of Podcast Technology in Statistics Education— ❖ Joni Nunnery, Louisiana State University

CC-250 B 207 Measurement Error in Survey Data Collection— Contributed

Section on Survey Research Methods, Social Statistics Section Chair(s): Mary Ann Guadagno, National Institutes of Health

2:05 p.m. Modeling Rotation Group Bias and Survey Errors in the Labor Force Survey of Statistics Netherlands— Jan Van den Brakel, Statistics Netherlands; Sabine Krieg, Statistics Netherlands

2:20 p.m. Face-to-Face Interviews with Children—❖ Marek Fuchs, University of Kassel

2:35 p.m. Survey Design for Studies of Measurement Error in Physical Activity Assessments— Nicholas Beyler, Iowa State University; Sarah M. Nusser, Iowa State University; Wayne Fuller, Iowa State University; Alicia Carriquiry, Iowa State University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

2:50 p.m. Evaluating the Assumption of Uncorrelated Error Terms in a Mixed-Mode Study with Validation

Data— Courtney Kennedy, University of Michigan; Stanley Presser, University of Maryland

3:05 p.m. Measurement Error in Calibration: An Application

to the National Resources Inventory— Emily Berg, Iowa State University; Jean Opsomer, Iowa State University; Wayne Fuller, Iowa State

University

3:20 p.m. Floor Discussion

208

CC-250 A

Web and Telephone Survey Methods— Contributed

Section on Survey Research Methods, Social Statistics Section Chair(s): Stephen Ash, U.S. Census Bureau

2:05 p.m. A Comparison Between a Traditional RDD Survey and a Telephone Survey with Cell-Phone-Only

Populations— Sunghee Lee, University of California, Los Angeles; David Grant, University of California, Los Angeles; J. Michael Brick,

Westat; Sherm Edwards, Westat

2:20 p.m. A New Application of Adaptive Web Sampling

designs— Hong Xu, The Pennsylvania State University; Steve K. Thompson, Simon Fraser University; James L. Rosenberger, The

Pennsylvania State University

2:35 p.m. Time Series Analysis of Census Internet Response— & Fred Highland, Lockheed Martin

Corporation

2:50 p.m. Assessing the Applicability of Self-Anchoring

Scales in Web Surveys— Frederik Van Acker, Vrije Universiteit Brussel; Peter Theuns, Vrije

Universiteit Brussel

3:05 p.m. Comparing Web Survey Samples of Schizophrenic

and Bipolar Patients with Concurrent RDD and In-Person Samples—*LinChiat Chang, Opinion

Research Corporation; Channing Stave, Pfizer Inc.; Corinne O'Brien, Pfizer Inc.; Fred Rappard, Pfizer Inc.; Jill Glathar, Opinion Research

Corporation; Joseph Cronin, Opinion Research

Corporation

3:20 p.m. Beyond Demographics: Are 'Webographic'

Questions Useful for Reducing the Selection

Bias in Web Surveys?— Matthias Schonlau,

RAND Corporation: Arthur VanSougt RAND

RAND Corporation; Arthur VanSoest, RAND Corporation; Arie Kapteyn, RAND Corporation

3:35 p.m. When Standard Regression Techniques Fail: The Role of Propensity Score Methods—& Michael Posner, Villanova University; Arlene Ash, Boston University

Contributed Poster Presentations 2:00 p.m.-3:50 p.m.

209 CC-Exhibit Hall D Contributed Poster Presentations—Contributed

Section on Statistics in Epidemiology, Section on Government Statistics, Section on Health Policy Statistics, Section on Statistics and the Environment, Section on Survey Research Methods, Social Statistics Section, Section on Statistical Computing

Chair(s): Dongseok Choi, Oregon Health & Science University

Applications and case studies

- 61 Modeling Tilletia Indica Infection on Wheat Using Nonlinear Mixed Models with a Sharp Turning Point— * Zhongwen Tang, Kansas State University; Shie-Shien Yang, Kansas State University; Karen Garrett, Kansas State University; I. Sharma, Punjab Agriculture University; R. L. Bowden, U.S. Department of Agriculture
- 62 Waiting Time Distributions of Sleep—*Anna
 Mnatsakanova, National Institute for Occupational
 Safety and Health; James Slaven, National Institute
 for Occupational Safety and Health; John M. Violanti,
 State University of New York at Buffalo; Bryan J. Vila,
 Washington State University; Cecil M. Burchfiel, National
 Institute for Occupational Safety and Health; Michael
 Andrew, Centers for Disease Control and Prevention

Categorical, multivariate analysis

- 64 Categorization of Sleep Patterns with Derived Actigraph Variables—* James Slaven, National Institute for Occupational Safety and Health; Michael Andrew, Centers for Disease Control and Prevention; John M. Violanti, State University of New York at Buffalo; Bryan J. Vila, Washington State University; Cecil M. Burchfiel, National Institute for Occupational Safety and Health

Data mining and knowledge discovery, machine learning

65 Logistic Regression, Classification Tree, and Boosted Regression: A Comparison of Models in the Prediction of Pregnancy-Induced Hypertension—*Paul Kolm, Christiana Care Health System; Deborah Ehrenthal,

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

- Christiana Care Health System; Claudine Jurkovitz, Christiana Care Health System; Matthew Hoffman, Christiana Care Health System; James Bowen, Christiana Care Health System
- 66 Use of Data Mining To Determine Variable Significance and Inter-relationships in Models— William K. Sieber, National Institute for Occupational Safety and Health
- 67 An Empirical Evaluation of the Random Forests Classifier Models for Variable Selection in a Large-Scale Lung Cancer Case Control Study—*Qing Zhang, The University of Texas M. D. Anderson Cancer Center; Christopher I. Amos, The University of Texas M. D. Anderson Cancer Center
- S-PLUS and R Package for Least Angle Regression—
 Tim Hesterberg, Insightful Corporation

Government statistics

69 Model and Survey Performance Measurement by the RSESP—* James Knaub, Energy Information Administration

Health policy, epidemiology, public health

- 70 Mixture Model Analysis of Age-Appropriate and Delayed Vaccination— Andrew Baughman, Centers for Disease Control and Prevention; Charles E. Rose, Centers for Disease Control and Prevention; Kate M. Shaw, Centers for Disease Control and Prevention; Gustavo H. Dayan, Centers for Disease Control and Prevention
- 71 Applying Propensity Score Calibration To Reduce
 Unmeasured Confounding Bias—* Rachel Bittner,
 University of Washington; Jennifer Nelson, Group
 Health Center for Health Studies; Michael Jackson,
 Group Health Center for Health Studies; Noel Weiss,
 University of Washington; Lisa Jackson, Group Health
 Center for Health Studies
- 72 A Case Study of Time Scale for Use in Cox's Proportional Hazard Model— Qimei He, Pacific Health Research Institute; Bradley Willcox, Pacific Health Research Institute; David J. Curb, Pacific Health Research Institute
- 73 Application of the Pattern-Mixture Latent Trajectory Model in an Epidemiological Study—& Hiroko Dodge, Oregon State University; Changyu Shen, Indiana University; Mary Ganguli, University of Pittsburgh
- 74 Parametric Time Dependent SIR Model— Di Shi, Riverdale Country School; Peter Gross, Riverdale Country School

- 75 The Association Between Anticyclic Citrullinated Peptide Antibodies and Risk of Rheumatoid Arthritis—*Lori B. Chibnik, Brigham and Women's Hospital; Lisa A. Mandl, Hospital for Special Surgery; Karen H. Costenbader, Brigham and Women's Hospital; Peter Schur, Brigham and Women's Hospital; Elizabeth W. Karlson, Brigham and Women's Hospital
- 76 Monte Carlo Sensitivity Analysis of Smoking as an Unmeasured Confounder in an Investigation of the Association Between Occupation and Lung Cancer Mortality—*Jia Li, Constella Group, LLC; Toni Alterman, National Institute for Occupational Safety and Health
- A New Measure of Excess Longevity in Families—
 Kenneth Boucher, Huntsman Cancer Institute;
 Richard A. Kerber, Huntsman Cancer Institute
- 78 A Study on the Effect of Preferred Drug Lists in Medicaid on the Overall Medical Expense—*Joseph Richardson, Auburn University; Mark Carpenter, Auburn University; Victoria Jordan, Auburn University
- 79 Evaluating SEER-Medicare Linked Database
 Completeness for Oral and Pharyngeal Cancer—
 Jonathan Mahnken, The University of Kansas Medical
 Center; *John Keighley, The University of Kansas
 Medical Center; Matthew Mayo, The University of
 Kansas Medical Center
- 80 Cost-Effectiveness Analysis in Breast Cancer Early
 Detection—& Charlotte H. Ahern, Rice University; Yu
 Shen, The University of Texas M. D. Anderson Cancer
 Center
- 81 What Do We Know About the Effects of Substance Use on Labor Productivity? A Survey of Results and Related Methodological Issues—* Richard Bryant, University of Missouri-Rolla; V. A. Samaranayake, University of Missouri-Rolla
- 82 School Social Support and Adolescent Depressiveness:
 Multilevel Analysis of Finnish School Health Promotion
 Survey—* Noora Ellonen, University of Tampere

Incomplete data analysis, imputation methods

- 83 Bayesian Multiple Imputation and Maximum Likelihood Methods for Missing Data—*Min Sun, Sam Houston State University; Ferry Butar Butar, Sam Houston State University
- 84 Imputation for Missing Physiological Measurement Data: Simulations and Applications—& Matt Jans, University of Michigan; Steven Heeringa, Institute for Social Research

Applied Session

Presenter

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85 A Comparison of Weighting Adjustment and Multiple Imputation Methods To Correct for Nonresponse Bias in a Longitudinal Group-Randomized Clinical Trial for Depression—* Lingqi Tang, University of California, Los Angeles; Naihua Duan, University of California, Los Angeles; Ruth Klap, University of California, Los Angeles; Thomas Belin, University of California, Los Angeles

Linear models, GLMs, parametric methods

Comparison of Modeling Approaches to Deriving
 Normative Values of Bone Mineral Density from NHANES

 III—*Qing Wu, Tulane University; John Lefante,
 Tulane University; Jeanette Magnus, Tulane University;

 Janet Rice, Tulane University

Longitudinal data, repeated measurements, and metaanalysis

- Assessing the Potential Impact of Missing Data in a
 Longitudinal Study with a Continuous Outcome—*Owen
 Devine, Centers for Disease Control and Prevention;
 Jorge Rosenthall, Centers for Disease Control and
 Prevention; Nyasha Skerrette, Emory University
- 88 Area Under the Curve and Other Summary Indicators of Repeated Waking Cortisol Measurements—* Desta Fekedulegn, National Institute for Occupational Safety and Health; Michael Andrew, Centers for Disease Control and Prevention; Cecil M. Burchfiel, National Institute for Occupational Safety and Health; John M. Violanti, State University of New York at Buffalo; Tara A. Hartley, National Institute for Occupational Safety and Health; Luenda E. Charles, National Institute for Occupational Safety and Health; Diane B. Miller, National Institute for Occupational Safety and Health
- 89 On the Meta-Analysis of Incomplete Primary Study Data—❖ Todd Bodner, Portland State University

Social and behavioral science

- Response and Nonresponse Pattern Analysis in Survey Research—& Chong Ho Yu, Arizona State University; Samuel DiGangi, Arizona State University; Sandra Andrews, Arizona State University; Angel Jannasch-Pennell, Arizona State University
- 91 Standard Error Estimation in Latent Variable Model— *Yan Wang, Southern Methodist University; S. Lynne Stokes, Southern Methodist University; Andreas Oranje, Educational Testing Service
- 92 Nonlinear Random Coefficients Regression for Estimating an Interaction Term—Reid Landes, University of Arkansas for Medical Sciences; *Jeffrey A. Pitcock, University of Arkansas for Medical Sciences

- 93 Relationships Between Students' Science Achievement, Attitudes Toward Science, and Learning Through Inquiry—*Man Hung, University of Utah
- 94 Evaluating a Multilevel Item Response Theory Model— *Thomas Schmitt, University of Wisconsin-Milwaukee; Cindy M. Walker, University of Wisconsin-Milwaukee
- 95 Globalization and Chinese City System Restructuring— *Xiulian Ma, The University of Utah

Invited Sessions 4:00 p.m.-5:50 p.m.

210 CC-Ballrooms E-J ASA President's Invited Address—Invited

ASA, IMS, ENAR, WNAR, SSC

Organizer(s): Mary Ellen Bock, Purdue University Chair(s): Mary Ellen Bock, Purdue University

4:05 p.m. Regularization Methods in Statistical Model-Building: Statisticians, Computer Scientists,

Classification, and Machine Learning—& Grace Wahba, University of Wisconsin-Madison

5:20 p.m. Floor Discussion

Invited Sessions 8:00 p.m.-9:30 p.m.

211 CC-Ballroom B IMS Presidential Address—Invited

IMS

Organizer(s): Thomas Kurtz, University of Wisconsin-Madison Chair(s): Thomas Kurtz, University of Wisconsin-Madison

8:00 p.m. Presentation of Awards

8:30 p.m. Open Access to Professional Information—* Jim

Pitman, University of California, Berkeley

9:15 p.m. Floor Discussion

GA-Venice

TUESDAY, JULY 31

Tours

TR07 Utah Olympic Park, Park City Main Street

8:30 a.m.–12:30 p.m. CC-South Foyer (200 South Street)

TR08 Salt Lake Historic Walking Tour

9:00 a.m.–12:00 p.m. CC-South Foyer (200 South Street)

TR09 Crossroads of the West City Tour

1:00 p.m.–4:00 p.m. CC-South Foyer (200 South Street)

Committee/Business Meetings & Other Activities

7:00 a.m.-8:30 a.m.

Committee on Statistics and Disability Annual Meeting (closed)

Chair(s): Joan Turek, U.S. Department of Health & Human Services

7:00 a.m. – 8:30 a.m. GA-Belvedere

Committee on Minorities in Statistics (closed)

Chair(s): Nagambal D. Shah, Spelman College

7:00 a.m.–8:30 a.m. GA-Grenoble

Business and Economics Statistics Section Executive Committee Meeting (closed)

Chair(s): Badi H. Baltagi, Syracuse University

7:00 a.m.–8:30 a.m. GA-Bagatelle

JABES Management Committee Meeting (closed)

Chair(s): Timothy Gregoire, Yale University

7:00 a.m.–8:30 a.m. GA-Audubon

Section on Statisticians in Defense and National Security Business Meeting

Chair(s): Alyson G. Wilson, Los Alamos National Laboratory

7:00 a.m.-8:30 a.m.

GA-Riviera

Committee on Individual Accredidation (closed)

Chair(s): Mary Batcher, Ernst & Young

7:00 a.m.–8:30 a.m. Off Property

Gertrude Cox Scholarship Race

Organizer(s): Tena Katsaounis, The Ohio State University

7:00 a.m.–8:30 a.m. GA-Tuscany

Scientific and Public Affairs Advisory Committee Open Meeting

Chair(s): David Marker, Westat

7:00 a.m.-8:30 a.m.

GA-Embassy

Committee on Professional Ethics Meeting

Chair(s): Margaret Nemeth, Monsanto Company

7:00 a.m.–10:00 a.m. GA-Ambassador

Section on Physical and Engineering Sciences Executive Committee Meeting (closed)

Chair(s): Jennifer Van Mullekom, Capital One

7:00 a.m. –10:00 a.m. GA-Murano Garden Salon

Council of Chapters Business Meeting and Breakfast (closed)

Chair(s): J. Lynn Palmer, The University of Texas M. D. Anderson Cancer Center

7:00 a.m.–6:00 p.m. CC-252 A, CC-252B

Speaker Work Rooms

7:00 a.m.–11:00 p.m. CC-South Foyer

Cyber Center

7:30 a.m. – 8:30 a.m. GA-Vienna

Technometrics Editorial Board Meeting (closed)

Chair(s): Randy R. Sitter, Simon Fraser University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

7:30 a.m.-10:00 a.m.

GA-Sussex

9:00 a.m.-6:00 p.m. ASA Booth #101

CC-Exhibit Hall D

Statistics in Biopharmaceutical Research Journal **Editors and Advisory Committee**

Chair(s): Joseph Heyse, Merck & Co., Inc.

7:30 a.m.-4:30 p.m.

GA-Envoy

ASA/NCTM Beyond AP Statistics (closed, separate registration fee required)

Chair(s): Roxy Peck, California Polytechnic State University

7:30 a.m.-4:30 p.m.

CC-South Foyer

JSM Main Registration and ASA Membership/Special Assistance Desk

8:00 a.m.-10:00 a.m.

CC-Kenneth Knight Board Room

Advisory Committee on Continuing Education Business Meeting (closed)

Chair(s): Katherine Halvorsen, Smith College

8:00 a.m.-10:00 a.m.

GA-Versailles

Addison Wesley Focus Group (closed)

Organizer(s): Liliana Molina, Addison Wesley

8:00 a.m.-12:00 p.m.

GA-Fontainbleau

Committee of Presidents of Statistical Societies Committee Meeting (closed)

Organizer(s): Jessica Utts, University of California, Davis

8:00 a.m.-6:00 p.m.

CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

8:00 a.m.-6:00 p.m. CC-Exhibit Hall D

Exhibitor Lounge

8:00 a.m.-6:00 p.m. CC-Exhibit Hall C

Career Placement Service

9:00 a.m.-10:00 a.m. **GA-Embassy**

Mu Sigma Rho Executive Committee (closed)

Organizer(s): Marcia Gumpertz, North Carolina State University

9:00 a.m.-5:00 p.m. **CC-South Foyer**

ASA Marketplace

CC-Exhibit Hall D

9:00 a.m.-6:00 p.m.

EXPO 2007

10:30 a.m.-1:00 p.m.

GA-Murano Garden Salon

ASA New Chapter Officers Meeting with Council of Chapters Vice Chairs

Chair(s): J. Lynn Palmer, The University of Texas M. D. Anderson Cancer Center

12:00 p.m.-2:00 p.m.

GA-Audubon

Journal of Computational and Graphical Statistics Editors Meeting (closed)

Chair(s): David van Dyk, University of California, Irvine

12:30 p.m.–1:30 p.m.

CC-250 A

IMS Business Meeting

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

12:30 p.m.-2:00 p.m.

GA-Vienna

JASA Editorial Board Luncheon (closed)

Chair(s): David Banks, Duke University

12:30 p.m.-2:00 p.m.

GA-Belvedere

Deming Lectureship Committee Speaker Luncheon (closed)

Chair(s): William H. Woodall, Virginia Polytechnic Institute and State University; Nicholas I. Fisher, University of Sydney

12:30 p.m.–2:00 p.m.

GA-Riviera

The American Statistician Luncheon (closed)

Chair(s): Peter Westfall, Texas Tech University

12:30 p.m.-4:30 p.m.

GA-Provence

ENAR RAB/RECOM Luncheon Meeting (closed, by invitation only)

Organizer(s): Kathy Hoskins, ENAR

1:30 p.m.-2:30 p.m.

CC-Ballrooms F-J

ASA Presidential Address and Awards Session Rehearsal (closed)

Chair(s): Sallie Keller-McNulty, Rice University

2:00 p.m.-3:30 p.m.

GA-Sussex

ASA Finance Committee Meeting (closed)

Chair(s): Sastry Pantula, North Carolina State University

2:00 p.m.-3:30 p.m.

GA-Ambassador

4:30 p.m.-5:30 p.m.

CC-250 D

Council of Chapters Traveling Course

Chair(s): Stephen Simon, Children's Mercy Hospital

4:00 p.m.-5:00 p.m.

GA-Embassy

JASA Reviews Board Meeting (closed)

Chair(s): Robert B. Lund, Clemson University

GA-Ambassador 4:00 p.m.-5:00 p.m.

Statistics Project and Poster Competitions

Chair(s): Jerry Moreno, John Carroll University

GA-Murano Garden Salon 4:00 p.m.-6:00 p.m.

Council of Chapters Workshop and Reception: Expanding Our Chapter Universe (closed)

Chair(s): B. Christine Clark, ICON Clinical Research

STATCOM: Students Providing Pro Bono Consulting to

the Community

Organizer(s): Cherie Ochsenfeld, Purdue University

4:30 p.m.-6:00 p.m.

GA-Venice

Biometrics Editorial Board (closed)

Organizer(s): Ann Hanhart, The International Biometric Society

5:00 p.m.-6:00 p.m.

CC-155 E

Business and Economics Statistics Section Business Meeting

Chair(s): Badi H. Baltagi, Syracuse University

5:00 p.m.-6:30 p.m.

GA-Grenoble

Centers for AIDS Research Statisticians Organizational Meeting (closed)

Organizer(s): Susan S. Ellenberg, University of Pennsylvania



Applied Session

Presenter

CC-Salt Palace Convention Center

5:30 p.m.-7:30 p.m.

GA-The Grand America Hotel

5:00 p.m.-7:00 p.m.

GA-Vienna

North Carolina State University Alumni and Friends

Organizer(s): Tom Gerig, North Carolina State University

5:00 p.m.-7:00 p.m.

GA-Versailles

Rice University Reception

Organizer(s): Katherine Ensor, Rice University

5:30 p.m.-6:30 p.m.

CC-150 A-C

JSM 2009 Program Committee Orientation (closed)

Chair(s): Elaine Powell, American Statistical Association

5:30 p.m.-6:30 p.m.

GA-Sussex

Russian and ex-USSR Statisticians Mixer

Organizer(s): Stanislav Kolenikov, University of Missouri-Columbia

5:30 p.m.-6:30 p.m.

CC-250 A

ENAR Business Meeting (open to all ENAR members)

Organizer(s): Kathy Hoskins, ENAR

5:30 p.m.-7:00 p.m.

CC-155 C

Biopharmaceutical Section Annual Business Meeting and Mixer

Chair(s): Brian L. Wiens, Gilead Colorado

5:30 p.m.-7:00 p.m.

CC-150 D-F

Section on Government Statistics Business Meeting

Chair(s): Steve H. Cohen, National Science Foundation

5:30 p.m.-7:00 p.m.

GA-Audubon

IMS Student and New Member Reception

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

5:30 p.m.-7:00 p.m.

CC-151 A-C

Committee on Gay and Lesbian Concerns in Statistics Social

Chair(s): Barry Johnson, Internal Revenue Service

5:30 p.m.-7:00 p.m.

CC-155 B

Section on Nonparametric Statistics Business Meeting

Chair(s): Pranab K. Sen, The University of North Carolina at Chapel Hill

5:30 p.m.–7:00 p.m.

CC-155 D F

Section on Statistical Consulting Business Meeting

Chair(s): Stuart Gansky, University of California, San Francisco

GA-Venezia Garden Salon

Joint Section on Quality & Productivity and Section on Physical and Engineering Sciences Business Meeting and Mixer

Chair(s): William Guthrie, National Institute of Standards and Technology; Jennifer Van Mullekom, Capital One

5:30 p.m.-7:30 p.m.

CC-150 G

Section on Bayesian Statistical Science Mixer

Chair(s): Dipak Dey, University of Connecticut

5:30 p.m.-7:30 p.m.

GA-Riviera

Section on Statistics in Epidemiology Social Mixer

Chair(s): Lisa M. Sullivan, Boston University

5:30 p.m.–7:30 p.m.

GA-Milano

University of Michigan Joint Biostatistics and Statistics Departments Alumni Reception

Organizer(s): Roderick Little, University of Michigan

6:00 p.m.–6:30 p.m.

CC-Ballrooms E-J

2007 ASA New Fellows Group Picture (closed)

Chair(s): Robert M. Bell, AT&T Research Labs

6:00 p.m.–7:00 p.m.

CC-151 D-F

STATCOM Network Business Meeting

Organizer(s): Gayla R. Olbricht, Purdue University

6:00 p.m.-7:00 p.m.

CC-250 B

Caucus for Women in Statistics Business Meeting

Organizer(s): Tena Katsaounis, The Ohio State University

6:00 p.m.-7:30 p.m.

GA-Belvedere

Section on Statistics and the Environment Business Meeting and Social

Chair(s): Mary Christman, University of Florida

6:00 p.m.–8:00 p.m.

CC-151 G

Committee on Minorities in Statistics Reception

Chair(s): Nagambal D. Shah, Spelman College

6:00 p.m.-8:00 p.m.

GA-Savoy

A Reception To Celebrate Marvin Zelen's 80th Birthday and Cytel's 20th Anniversary

Organizer(s): Cyrus Mehta and Nitin Patel, Cytel Inc.

6:00 p.m.-8:00 p.m.

GA-Envoy

University of Wisconsin-Madison Reception

Organizer(s): Jun Shao, University of Wisconsin-Madison

6:00 p.m.-8:00 p.m.

CC-Ballroom D

Pfizer Statistics Reception (closed)

Organizer(s): Tisha Duggan, Pfizer Inc.

6:30 p.m.-8:00 p.m.

GA-Fontainbleau

CRC Press Reception (closed)

Organizer(s): Nadja English, CRC Press

6:30 p.m.-8:00 p.m.

GA-Bagatelle

Interface Foundation of North America Board Meeting

Organizer(s): Tim Hesterberg, Insightful Corporation

6:30 p.m.-8:30 p.m.

CC-155 A

Joint Section on Statistics and Marketing and Business and Economics Statistics Section Mixer

Chair(s): John C. Liechty, The Pennsylvania State University; Badi H. Baltagi, Syracuse University

CC-Ballrooms A&C

JSM Informal Dance Party (all welcome, included in

CE 28C

Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics

Instructor(s): Danyu Lin, The University of North Carolina at Chapel Hill

1:00 p.m.-5:00 p.m.

CC-151 D-F

Section on Statistical Education, Section on Statistical Computing, ASA Instructor(s): Tim Hesterberg, Insightful Corporation

CE_24C

Dropout in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity Analysis

8:30 a.m.-5:00 p.m.

CC-150 G

Biometrics Section, ASA

Instructor(s): Michael Daniels, University of Florida; Joseph W. Hogan, Brown University

CE_25C

Statistical Genetics

8:30 a.m.-5:00 p.m.

CC-150 A-C

Biometrics Section, ASA

Instructor(s): Kenneth Lange, University of California, Los Angeles; Janet Sinsheimer, University of California, Los Angeles; Eric Sobel, University of California, Los Angeles

CE 26C

CE_27C

ASA

Wavelets and Statistical Applications

8:30 a.m.-5:00 p.m.

Analysis of Censored Data

8:30 a.m.-5:00 p.m.

CC-150 D-F

CC-151 A-C

Section on Bayesian Statistical Science, ASA

Instructor(s): Brani Vidakovic, Georgia Institute of Technology; Marina Vanucci, Texas A&M University

9:30 p.m.-12:00 a.m.

registration fee)

Continuing Education (Fee Events)

CE_22C

Harnessing Data Streams Through Statistical Computing

8:00 a.m.-12:00 p.m.

CC-151 D-F

Section on Statistical Computing, ASA

Instructor(s): Simon Urbanek, AT&T Labs - Research; Tamraparni Dasu, AT&T Labs - Research

CE 23C

Statistical Monitoring of Clinical Trials: A Unified **Approach**

8:30 a.m.-5:00 p.m.

CC-151 G

Biopharmaceutical Section, ASA

Instructor(s): Michael Proschan, National Institute of Allergy and Infectious Diseases

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Roundtables with Coffee 7:00 a.m.-8:15 a.m.

212 CC-Ballroom D ASA Council of Chapters Roundtable with Coffee (fee event)

Council of Chapters

Organizer(s): V. A. Samaranayake, University of Missouri-Rolla

TL01 AP Statistics and Local Chapters of the ASA—

Dongseok Choi, Oregon Health & Science University

213 CC-Ballroom D Section on Health Policy Statistics Roundtable with Coffee (fee event)

Section on Health Policy Statistics

Organizer(s): Susan Simmons, The University of North Carolina at Wilmington

TL02 Approaches to Measuring Differences in Health That Are Unaffected by the Prevalence of an Outcome—

*James P. Scanlan, Attorney at Law

214 CC-Ballroom D Section on Statistical Education Roundtable with Coffee (fee event)

Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

TL03 Coordinating the Large Undergraduate Course—
*Roger Woodard, North Carolina State University

215 CC-Ballroom D Section on Statistical Graphics Roundtable with Coffee (fee event)

Section on Statistical Graphics

Organizer(s): David Hunter, The Pennsylvania State University

TL04 Network Visualization—❖ Deborah Swayne, AT&T Labs - Research

216 CC-Ballroom D Section on Statistics and Marketing Roundtable with Coffee (fee event)

Section on Statistics and Marketing

Organizer(s): Stan Lipovetsky, GfK Custom Research North America

TL05 Statistics in Humor and Art—❖ Igor Mandel, Analytic Partners

217 CC-Ballroom D Section on Survey Research Methods Roundtable with Coffee (fee event)

Section on Survey Research Methods

Organizer(s): David Marker, Westat

The Transition from Graduate School to a Career in Statistics—* Edward English, NORC at the University of Chicago

218 CC-Ballroom D Section on Teaching Statistics in the Health Sciences Roundtables with Coffee (fee event)

Section on Teaching Statistics in the Health Sciences

Organizer(s): Jodi Lapidus, Oregon Health & Science University

TL07 Ideas for Improving Appreciation and Understanding of Cluster Sampling— Winston A. Richards, The Pennsylvania State University, Harrisburg

TL08 Interpreting Statistical Results from Medical Literature in the Classroom—& Kirk Anderson, Grand Valley State University

Special Presentation 8:30 a.m.-10:20 a.m.

219 CC-Ballroom B Introductory Overview Lecture 3: Improving Statistical Presentations and Posters—Other

ASA, SSC, ENAR, IMS, WNAR

Organizer(s): Naomi Robbins, NBR-Graphs Chair(s): Naomi Robbins, NBR-Graphs

8:35 a.m. Improving Statistical Presentations— Mike

Colopy, GlaxoSmithKline

9:20 a.m. Improving Statistical Posters— Dianne Cook,

Iowa State University

10:05 a.m. Floor Discussion

220 CC-255 A

Practical Designs in Early-Phase Cancer Trials— Invited

ENAR, Biopharmaceutical Section, WNAR

Organizer(s): Ying-Kuen K. Cheung, Columbia University Chair(s): Ying-Kuen K. Cheung, Columbia University

8:35 a.m. **Comparing Two-Stage Treatment Strategies Based** on Sequential Failure Times Subject to Interval **Censoring**—**❖** Peter F. Thall, The University of Texas M. D. Anderson Cancer Center; Leiko H. Wooten, The University of Texas M. D. Anderson Cancer Center; Nizar M. Tannir, The University of Texas M. D. Anderson Cancer Center; Randall E. Millikan, The University of Texas M. D. Anderson Cancer Center; Christopher J. Logothetis, The University of

9:05 a.m. Two-Stage Designs for Dose-Finding Trials with a Biologic Endpoint Using Stepwise Tests— * Mei-Yin C. Polley, Amgen Inc.; Ying-Kuen K. Cheung, Columbia University

Texas M. D. Anderson Cancer Center

9:35 a.m. A Strategic Approach to Designing Early Phase Cancer Trials— Tze Leung Lai, Stanford University; Philip Lavori, Stanford University; Mei-Chiung Shih, Stanford University

10:05 a.m. Floor Discussion

CC-251 E 221

Valid and Reliable Disability Measurement in Surveys—Invited

Committee on Statistics and Disability, Social Statistics Section, Section on Survey Research Methods

Organizer(s): David W. Keer, National Institute on Disability and Rehabilitation Research

Chair(s): Joan Turek, U.S. Department of Health & Human Services

8:35 a.m. Identifying the Population with Disabilities: A Comparison of Current Survey Estimates— Andrew J. Houtenville, Cornell University; S. Antonio Ruiz-Quintanilla, Cornell University; Robert Weathers, Mathematica Policy Research, Inc.

9:05 a.m. The Development and Testing of Disability Questions for the Current Population Survey— *Terence M. McMenamin, Bureau of Labor Statistics; Stephen M. Miller, Bureau of Labor Statistics; Anne E. Polivka, Bureau of Labor

Statistics

9:35 a.m. Disability Data and the American Community

Survey— Sharon Stern, U.S. Census Bureau

10:05 a.m. Floor Discussion

222 CC-355 F

Present-Day Challenges in the Design and Analysis of Industrial Experiments—Invited

Section on Quality and Productivity, Section on Physical and Engineering Sciences

Organizer(s): Timothy J. Robinson, University of Wyoming Chair(s): Shaun S. Wulff, University of Wyoming

8:35 a.m. A Structural Approach to the Design of Experiments for Robust Parameter Design— Raymond H. Myers, Virginia Polytechnic Institute and State University

9:05 a.m. A Posterior Predictive Approach to Multiple Response Surface Optimization—John Peterson, GlaxoSmithKline; & Enrique del Castillo, The Pennsylvania State University

9:35 a.m. Componentwise Variance Dispersion Graphs for Mixture Experiments—❖ John J. Borkowski, Montana State University; Boonorm Chomtee, Kasetsart University; Kamolchanok Choochaow, Silpakorn University

Floor Discussion 10:05 a.m.

223 CC-255 E

Toxicogenomics: From Concept to Regulatory Issues—Invited

Biopharmaceutical Section, Biometrics Section

Organizer(s): Nandini Raghavan, Johnson & Johnson PRD Chair(s): Dhammika Amaratunga, Johnson & Johnson PRD

8:35 a.m. Toxicogenomics for Toxicity Evaluation and Biomarker Identification— Hisham Hamadeh, Amgen Inc.

9:00 a.m. Systematic Mining of a Large Gene Expression Database and Design of a Multi-Endpoint Datahooks, Inc.

9:25 a.m. Gene Signatures for Hepatotoxicants— Nandini Raghavan, Johnson & Johnson PRD; Dhammika Amaratunga, Johnson & Johnson PRD; Alex Nie, Johnson & Johnson PRD; Michael McMillian, Johnson & Johnson PRD

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:50 a.m. Preparing the Critical Path to Acceptance of Toxicogenomic Data in Drug Safety Evaluation—

*Alex Nie, Johnson & Johnson PRD

10:15 a.m. Floor Discussion

224 CC-355 B

Resampling Methods in Small-Area Estimation—Invited

Section on Survey Research Methods, Section on Government Statistics, Section on Nonparametric Statistics

 $Organizer (s): Ferry\ Butar\ Butar,\ Sam\ Houston\ State\ University$

Chair(s): Robert Fay, U.S. Census Bureau

8:35 a.m. Jackknife and Bootstrap Methods for Small-

Area Estimation: An Appraisal—* J. N. K. Rao,

Carleton University

9:05 a.m. On Small-Area Prediction Interval Problems—

Snigdhansu Chatterjee, The University of Minnesota; *Partha Lahiri, University of Maryland; Huilin Li, University of Maryland

9:35 a.m. Disc: Peter Hall, The University of Melbourne9:45 a.m. Disc: Sharon L. Lohr, Arizona State University

9:55 a.m. Floor Discussion

225 CC-250 A

◆ Inference in Simple Dynamic Games with Multiple Equilibria—Invited

JBES-Journal of Business and Economic Statistics Organizer(s): Serena Ng, University of Michigan

Chair(s): Serena Ng, University of Michigan

8:35 a.m. The Identification Power of Equilibrium in Simple Games—*Elie Tamer, Northwestern University

9:05 a.m. Disc: Victor Aguirregabiria, University of

Toronto

9:15 a.m. Disc: Pat Bajari, The University of Minnesota

Twin Cities

9:25 a.m. Disc: Han Hong, Stanford University

9:35 a.m. Disc: Allan Collard-Wexler, New York University

9:45 a.m. Disc: Shakeeb Khan, Duke University

9:55 a.m. Disc: Adam Rosen, University College London

10:05 a.m. Floor Discussion

226 CC-250 D

Robust Inference and Model Selection—Invited

IMS, Biometrics Section, Section on Nonparametric Statistics

Organizer(s): Tianxi Cai, Harvard University

Chair(s): Tianxi Cai, Harvard University

8:35 a.m. Localized Model Selection by Cross-Validation—

*Yuhong Yang, The University of Minnesota

9:00 a.m. Selecting Models Using Incomplete Data—

*Gerda Claeskens, K.U. Leuven

9:25 a.m. Predicting Future Responses Based on Possibly

Mis-specified Working Models—* Lu Tian, Northwestern University; Tianxi Cai, Harvard University; Scott Solomon, Brigham and Women's Hospital; Lee-Jen Wei, Harvard

University

9:50 a.m. Disc: Thomas Lumley, University of Washington

10:10 a.m. Floor Discussion

227 CC-155 F

● ② Innovative Imputation Methods in Health Research—Invited

Section on Health Policy Statistics, Biometrics Section, Section on Teaching Statistics in the Health Sciences, Section on Survey Research Methods, WNAR

Organizer(s): Alan M. Zaslavsky, Harvard University; Yulei He, Harvard Medical School

Chair(s): Anirban Basu, The University of Chicago

8:35 a.m. Using a Mixture Model for Multiple Imputation in

the Presence of Outliers— Michael R. Elliott, University of Michigan; Nicolas Stettler, Children's Hospital of Philadelphia

9:00 a.m. Imputing Under-Reported Treatments Using

Multiple Sources of Treatment Information in a

Cancer Services Study— Alan M. Zaslavsky, Harvard University; Yulei He, Harvard Medical

School

9:25 a.m. Statistics and Lies: Correcting Questionnaire

Ordering Effect via Multiple Imputation— *Xiaoli Meng, Harvard University; Jingchen Liu, Harvard University; Chih-nan Chen, Boston University; Margarita Alegria, Cambridge

Health Alliance

9:50 a.m. Disc: Nathaniel Schenker, National Center for

Health Statistics

10:10 a.m. Floor Discussion

American Statistical Association

Presidential Address & Awards Session

Mary Ellen Bock, ASA President

Tuesday, July 31, 8:00 p.m. Salt Palace Convention Center Ballrooms E-J



Is your associate, professor, student, colleague, friend, or organization being recognized at the Joint Statistical Meetings in Salt Lake City?



Samuel S. Wilks Memorial Award



Edward C. Bryant Scholarship



Gertrude M. Cox Scholarship



Gottfried E. Noether Awards



W. J. Youden Award in Lab Testing

- ★ Statistics in Chemistry Award
- ★ ASA Fellows
- ★ Founders Award
- ★ Outstanding Statistical Application Award
- ★ Statistical Partnerships among Academe, Industry, and Government (SPAIG) Award

Plan to attend the ASA Presidential Address and Awards Session for the recognition of the ASA's most distinguished members.

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

228 CC-250 EF

• The Bayesian Frequentist Interface: Is the Difference One of Methodology or of Other Information?—Invited

SSC, Section on Bayesian Statistical Science, ENAR, Section on Survey Research Methods

Organizer(s): Donald A.S. Fraser, University of Toronto Chair(s): Nancy Reid, University of Toronto

8:35 a.m. Adaptive MCMC Using Stratified Proposals for Bayesian and Frequentist Inference— * Mylène Bédard, University of Warwick; Donald A.S.

Wong, York University

9:05 a.m. Improved Likelihood Inference for Vector

Parameters with Discrete Data— Nicola Sartori,

Fraser, University of Toronto; Augustive C.M.

University of Venice

9:35 a.m. **Default Priors for Frequentist and Bayesian**

Inference— Donald A. S. Fraser, University of

Toronto

Floor Discussion 10:05 a.m.

229 CC-355 E

Medallion Lecture III—Invited

IMS, General Methodology

Organizer(s): Tony Cai, University of Pennsylvania

Chair(s): Jianging Fan, Princeton University

8:35 a.m. Functional Regression Analysis: Models, Methods,

and Applications— * Hans-Georg Müller,

University of California, Davis

9:30 a.m. Disc: Chunming Zhang, University of

Wisconsin-Madison

9:45 a.m. Disc: Fang Yao, University of Toronto

10:00 a.m. Floor Discussion

CC-155 C 230

The Future of Pro Bono Statistics—Invited

Section on Statistical Consulting

Organizer(s): Nilupa S. Gunaratna, Purdue University

Chair(s): Fritz Scheuren, NORC at the University of Chicago

8:35 a.m. **Volunteerism in the ASA**— David Banks, Duke

University

9:00 a.m. A Role for Students in Pro Bono Statistics—

*Gayla R. Olbricht, Purdue University

9:25 a.m. Pro Bono Statistics and Public Policy— * Yasmin

H. Said, George Mason University

9:50 a.m. Disc: George P. McCabe, Purdue University

10:10 a.m. Floor Discussion

231 CC-155 D

Using Environmental Information for Rational Decisionmaking—Invited

Section on Statistics and the Environment, Section on Risk Analysis Organizer(s): Barry D. Nussbaum, U.S. Environmental Protection Agency Chair(s): Barry D. Nussbaum, U.S. Environmental Protection Agency

8:35 a.m. Virus and Indicator Occurrence in Ground Water Sources of Public Drinking Water—*Michael J. Messner, U.S. Environmental Protection Agency; Crystal Rodgers, U.S. Environmental

Protection Agency

9:00 a.m. A Bayesian Approach to EPA's Data Quality

> Objectives Process— Paul K. Black, Neptune and Company, Inc.; Mark Fitzgerald, Neptune and Company, Inc.; Tom Stockton, Neptune and

Company, Inc.

Strengthening Environmental Decisionmaking 9:25 a.m.

Through Data Quality Objectives— * John Warren,

U.S. Environmental Protection Agency

9:50 a.m. Disc: William F. Hunt, Jr., North Carolina State

University

Floor Discussion 10:10 a.m.

CC-355 C 232

 Multiple Comparisons and Experimental Replication—Invited

Section on Bayesian Statistical Science

Organizer(s): Valen Johnson, The University of Texas M. D. Anderson Cancer Center

Chair(s): Valen Johnson, The University of Texas M. D. Anderson

Cancer Center

8:35 a.m. Synthesis of Bayes Factors and Estimation for

Large Samples: Adaptive Hypothesis Testing Intervals (AHTI)— Luis R. Pericchi, University of Puerto Rico, San Juan; Maria E. Perez,

University of Puerto Rico, San Juan

9:05 a.m. Why There Are So Many Contradicted or Exaggerated

Findings in Highly Cited Clinical Research—*Ying Yuan, The University of Texas M. D. Anderson Cancer Center; Valen Johnson, The University of

Texas M. D. Anderson Cancer Center

9:35 a.m. Bayesian Decision Theory for Multiplicities—

Kenneth Rice, University of Washington

10:05 a.m. Floor Discussion

	ontributed Sessions n10:20 a.m.		Receiving Treatment on a Multinomial Outcome— *Jing Cheng, University of Florida
233	CC-255 D	9:15 a.m.	Statistical Analysis of Randomized Experiments with Nonignorable Missing Outcomes— *Kosuke Imai, Princeton University
Methods- Section on St Organizer(s)	ation Epidemiology and Statistical —Topic-Contributed tatistics in Epidemiology, ENAR Thillip Ross, Radiation Effects Research Foundation Phillip Ross, Radiation Effects Research Foundation Health Effects of Induced Radiation from the	9:35 a.m.	Correcting for Survivor Treatment-Selection Bias with a Structural Failure-Time Model: Survival in Oscar Award–Winning Performers—* Xu Han, University of Pennsylvania; Dylan Small, University of Pennsylvania; Vishal Patel, University of Pennsylvania; Dean Foster,
0.33 a.m.	Atomic Bombings of Hiroshima and Nagasaki— Fumiyoshi Kasagi, Radiation Effects Research Foundation	9:55 a.m.	University of Pennsylvania Estimating Surrogate Endpoints Defined by Principal Causal Effects— Shiro Tanaka, University of
8:55 a.m.	Modeling Effects of Radiation Exposure on Disease Outcomes with Radiation-Influenced Risk Factors (RFs), using Adult Health Study (AHS) Data— * Kenneth Kopecky, Fred Hutchinson Cancer	10:15 a.m.	Tokyo; Yutaka Matsuyama, University of Tokyo; Yasuo Ohashi, University of Tokyo Floor Discussion
	Research Center; Lori A. Williams, University of Washington	235	CC-255 F stical Analysis of Medical Device
9:15 a.m.	Biodosimetry in the A-Bomb Survivors' Cohort— *Daniel Stram, University of Southern California	Studies—	-Topic-Contributed utical Section, ENAR, WNAR
9:35 a.m.	Uncertainty of Estimated Radiation Doses Among Atomic Bomb Survivors: Using Multiple Sources	Organizer(s): Steve Boeh, Medtronic Inc. Chair(s): Cynthia DeSouza, Vertex Pharmaceuticals, Inc.	
	of Information on Errors in the Main Exposure Variable of Health Effects Studies— Harry Cullings, Radiation Effects Research Foundation; Eric J. Grant, Radiation Effects Research Foundation; Sachiyo Funamoto, Radiation	8:35 a.m.	Assessing Poolability of Data for a Clinical Trial: Why the Data Should Be Poolable and Why the Data Should Not Be Poolable—* David Naftel, The University of Alabama at Birmingham
	Effects Research Foundation; Sachiko Teranishi, Radiation Effects Research Foundation	8:55 a.m.	Primary Endpoint Sensitivity Analysis on Missing Data in Medical Device Trials—& Gina Garding,
9:55 a.m.	Descriptive Models for Excess Risks Following Radiation Exposure— Dale Preston, Hirosoft International		Boston Scientific Corporation; Nathan Carter, Boston Scientific Corporation; Eric Bass, Boston Scientific Corporation; Paul Cernohous, Boston Scientific Corporation
10:15 a.m.	Floor Discussion	9:15 a.m.	Challenges and Issues of Intent-to-Treat Analysis in Cardiac Device Studies— & Li Ding, Medtronic Inc.; Steve Boeh, Medtronic Inc.
Topic-Col Biometrics Se Organizer(s)		9:35 a.m.	Assessment of the Success of the Propensity Score Estimation and Appropriate Adjustment in a Drug Eluting Stent Post-Marketing Registry—* Yun Lu, Boston Scientific Corporation; Kevin Najarian, Boston Scientific Corporation; Aijun Song, Boston Scientific Corporation
8:35 a.m.	Structural Nested Mean Models for Time-Varying Causal Effect Moderation— Daniel Almirall, University of Michigan; Thomas R. Tenhave, University of Pennsylvania; Susan Murphy, University of Michigan	9:55 a.m.	Bayesian Approach to Meta-Analysis in Medical Device Trials Using Mixed Effects Models— *Lijuan Deng, Boston Scientific Corporation; Hong Wang, Boston Scientific Corporation; Liang Li, Genzyme Corporation
8:55 a.m.	Estimation and Inference for the Causal Effect of	10:15 a.m.	Floor Discussion

◆ Themed Session
◆ Applied Session
◆ Presenter
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236 CC-250 B

Nonparametric Methods for Complex and Difficult Data—Topic-Contributed

IMS, Section on Nonparametric Statistics Organizer(s): Mu Zhu, University of Waterloo Chair(s): Yulia R. Gel, University of Waterloo

8:35 a.m. Covariance Selection by Sparse Regression—* Jie Peng, University of California, Davis; Pei Wang, Fred Hutchinson Cancer Research Center

8:55 a.m. On Single-Index Models—& Yan Yu, University of Cincinnati; Zhou Wu, University of Cincinnati; Haiqun Lin, Yale University

9:15 a.m. CLUES: A Nonparametric Clustering Method Based on Local Shrinking—*Xiaogang Wang, York University

9:35 a.m. Longitudinal Modeling When Response and Time-Dependent Covariates Are Measured at Different Time Points—* Joel Dubin, University of Waterloo; Xiaoqin Xiong, University of Waterloo

9:55 a.m. Regularized Autoregressive Approximation: A
Bridge Between Estimation and Model Selection—
*Bei Chen, University of Waterloo; Yulia R. Gel,
University of Waterloo

10:15 a.m. Floor Discussion

237 CC-155 E

Bayesian Applications in Marketing—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Thomas Otter, The Ohio State University Chair(s): Thomas Otter, The Ohio State University

8:35 a.m. A Simultaneous Quantile Regression Model for Customer Linkage Analysis—* Jeffrey Dotson, The Ohio State University; Joseph J. Retzer, Maritz Research; Greg M. Allenby, The Ohio State University

8:55 a.m. Disentangling Preferences, Inertia, and Learning in Brand Choice Models— Sangwoo Shin, University of Rochester; Sanjog Misra, University of Rochester; Dan Horsky, University of Rochester

9:15 a.m. A Model of State Dependence Based on Auto- and Cross-Correlated Exponential Processes with an Application to Household Panel Data—*Xiuyun Zhang, The Ohio State University; Thomas Otter, The Ohio State University; Mario Peruggia, The Ohio State University

9:35 a.m. Bayesian Semiparametric Estimation of Random Coefficients Discrete Choice Models Using Aggregate Data—*Sylvie Tchumtchoua,

9:55 a.m. Disc: Mario Peruggia, The Ohio State University

10:15 a.m. Floor Discussion

238 CC-254 B

DescriptionLeonard J. Savage Awards—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Peter Mueller, The University of Texas M. D. Anderson Cancer Center

Chair(s): Alan E. Gelfand, Duke University

8:35 a.m. Semiparametric Models in Bayesian Event History Analysis Using Beta Processes— Pierpaolo De Blasi, University of Turin

8:55 a.m. Density Estimation and Dimension Reduction with Logistic Gaussian Process Priors—*Surya Tokdar, Carnegie Mellon University

9:15 a.m. Structure and Sparsity in High-Dimensional Multivariate Analysis—& Carlos Carvalho, Duke University

9:35 a.m. Bayesian Treed Gaussian Process Models—Robert Gramacy, University of Cambridge

9:55 a.m. Floor Discussion

239 CC-251 F

Opportunities and Challenges of Integrated Datasets To Serve Policy Research: The Medicaid Undercount Study—Topic-Contributed

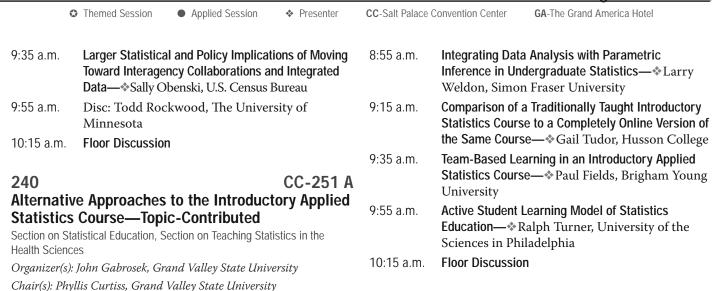
Section on Government Statistics, Section on Health Policy Statistics, Social Statistics Section

Organizer(s): Michael Davern, The University of Minnesota Chair(s): Linda Gage, California Department of Finance

8:35 a.m. Opportunities and Challenges Facing the Construction of Integrated Datasets To Serve Policy Research Purposes—* Michael Davern, The University of Minnesota

8:55 a.m. Analysis of Medicaid Enrollment Status in the Current Population Survey— Ming-Yi K. Mah, U.S. Census Bureau; Dean M. Resnick, U.S. Census Bureau

9:15 a.m. How Do Surveys Differ in Reporting the Quality of Reported Medicaid Enrollment Data: NHIS, CPS, and State Surveys—& Kathleen Call, The University of Minnesota



University of Utah Statistics Position

8:35 a.m.

Alternate Topic Sequencing in the Introductory Applied Statistics Course—* John Gabrosek,

Grand Valley State University

The Department of Mathematics at the University of Utah invites applications for a tenure-track position (or tenured, in exceptional cases) in all areas of statistics. Availability of positions is contingent upon funding. The Hiring Committee will select candidates based on excellence in research and teaching.

In order to apply for any of these positions, you must fill out an application at http://www.mathjobs.org/. To complete your application, submit a curriculum vitae, bibliography, and five letters of recommendation, including, if possible, one letter addressing teaching abilities. It is advised that applicants submit a research and teaching statement. It is not necessary to send preprints or reprints with the initial applications. Application material can be submitted through the above website (preferred) or they may be sent by US mail to: Committee on Staffing, Department of Mathematics, University of Utah, 155 S 1400 E, JWB 233, Salt Lake City, UT 84112. Completed applications will be considered starting October 1, 2007, and positions may be offered from that date on. Applications will be accepted until positions are filled.

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Applied Session

Presenter

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241 CC-254 C

Biostatistics and Bioinformatics at the Interface—Topic-Contributed

WNAR, Biometrics Section, ENAR, Section on Health Policy Statistics

Organizer(s): Wei Zhu, State University of New York at Stony Brook

Chair(s): Wei Zhu, State University of New York at Stony Brook

8:35 a.m. How Well Does Structural Equation Modeling
(SEM) Reveal Weakened Brain Anatomical
Connections? An fMRI Simulation Study—* Jieun
Kim, National Institutes of Health; Barry
Horwitz, National Institutes of Health

8:55 a.m. Correlation Analysis of the Transcriptomic and Proteomic Data in Platelet—& Chen Ji, Stony Brook University; Wei Zhu, State University of New York at Stony Brook

9:15 a.m. Optimal Designs Accounting for Potentially
Missing Observation in Quantal Dose Responses—

*Inyoung Baek, Novartis Pharmaceuticals

9:35 a.m. Power and Sample Size in Genetic Association
Studies in Presence of Genotyping Error—
* Wonkuk Kim, Stony Brook University; Qing
Wang, Stony Brook University; Derek Gordon,
Rutgers University; Stephen J. Finch, Stony
Brook University

9:55 a.m. Locally Optimal Weighting and Classifier Selection in Ensembles—& Melissa Fazzari, Stony Brook University; Hongshik Ahn, Stony Brook University; Wei Zhu, State University of New

York at Stony Brook 10:15 a.m. Floor Discussion

Topic-Contributed Panels 8:30 a.m.-10:20 a.m.

242 CC-255 B

◆ Statistical Graphics for Everyday Use?—Topic-Contributed

Section on Statistical Graphics, Section on Statistical Consulting Organizer(s): TBD

Frederick Wicklin, SAS Institute Inc.

Leland Wilkinson, SPSS Inc.

10:05 a.m. Floor Discussion

Contributed Sessions 8:30 a.m.-10:20 a.m.

243 CC-258

◆ Analysis of Censoring/Truncated Data— Contributed

Biometrics Section

Chair(s): Bingshu Chen, National Institutes of Health

8:35 a.m. Nonparametric Maximum Likelihood Estimation of the Incidence Rate Using Data from a Prevalent Cohort Study with Follow-Up— Vittorio Addona, Macalester College; Masoud Asgharian, McGill University; David Wolfson, McGill University

8:50 a.m. Semiparametric Analysis for Recurrent Event Data with Time-Dependent Covariates and Informative Censoring—& Chiung-Yu Huang, National Institutes of Health; Jing Qin, National Institutes of Health; Mei-Cheng Wang, The Johns Hopkins University

9:05 a.m. Nonparametric Estimation in a Markov 'Illness-Death' Process from Interval-Censored Observations with Missing Intermediate Transition Status—Halina Frydman, New York University; * Michael Szarek, Pfizer Inc.

9:20 a.m. Inference for Three-State Progressive Disease
Models with Common Periodic Observations—

*Beth Ann Griffin, RAND Corporation; Stephen
Lagakos, Harvard School of Public Health

9:35 a.m. Semiparametric Estimation with Recurrent Event
Data Under an Informative Monitoring Period—
Akim Adekpedjou, University of South
Carolina; Edsel A. Pena, University of South
Carolina

9:50 a.m. Comparing in vivo Tumor Growth with Response-Dependent Right-Censoring— Wenquan Wang, The University of Alabama at Birmingham

10:05 a.m. Evaluation of a Binary Response Variable as a Surrogate for Survival: A Gynecologic Oncology Group Study—& Virginia Filiaci, GOG Statistical and Data Center; Randolph L. Carter, University

at Buffalo-SUNY

126 JSM 2007

GA-The Grand America Hotel Themed Session Applied Session CC-Salt Palace Convention Center Presenter

CC-259

244 Bayesian Statistical Methodology and Its Application to Biometrics—Contributed

Biometrics Section

Chair(s): Meehyung Cho, sanofi-aventis

A Bayesian Approach to a Logistic Regression 8:35 a.m. Model with Incomplete Information—❖ Taeryon Choi, University of Maryland, Baltimore County; Mark J. Schervish, Carnegie Mellon University; Ketra Schmitt, Battelle Memorial Institute; Mitchell Small, Carnegie Mellon University

8:50 a.m. A Bayesian Method for the Detection of Epistasis in Quantitative Trait Loci— & Edward Boone, Virginia Commonwealth University

Group Sequential Designs and Analyses for Clinical 9:05 a.m. Trials Based on a Utility Setting— *Yi Cheng, Indiana University South Bend

9:20 a.m. Statistical Model for Detecting Multiple eQTLs— Wei Zhang, Harvard University; Jun S. Liu, Harvard University; Jun Zhu, Rosetta Inpharmatics, LLC

9:35 a.m. **Empirical Bayes Estimators in Stratified Random** Sampling/Ranked Set Sampling— Tetsuji Ohyama, Kurume University; Jimmy A. Doi, California Polytechnic State University; Takashi Yanagawa, Kurume University

9:50 a.m. Linear Model Selection Based on Estimation of **Model Bias**—**♦** Andrew Neath, Southern Illinois University Edwardsville; Letitia Downen, Southern Illinois University Edwardsville; Joseph Cavanaugh, The University of Iowa

10:05 a.m. **Empirical Bayes Methods for Controlling the False** Discovery Rate with Dependent Data— * Weihua Tang, Bristol-Myers Squibb Company; Cun-Hui Zhang, Rutgers University

245 CC-257

Sequence Analysis and Genetic Association Studies—Contributed

Biometrics Section

Chair(s): Michele Shaffer, The Pennsylvania State University

Mining ChIP Data for Transcription Factor Binding 8:35 a.m. Sites by the Addition of Background Sequences— *Yu Liang, National Institute of Environmental Health Sciences; Leping Li, National Institute of **Environmental Health Sciences**

8:50 a.m. Complex Demodulation Applied to bZIP and bHLH-PAS Protein Domains— Charles Smith, North Carolina State University; Zhi Wang, North Carolina State University; William R. Atchley, North Carolina State University

9:05 a.m. A Probabilistic Approach for Phylogenetic Sequence Selection— Michelle Lacey, Tulane University

9:20 a.m. Variable Selection in Logistic Models for Testing **SNP-SNP Interactions**— * Huiyi Lin, The University of Alabama at Birmingham; Renee Desmond, The University of Alabama at Birmingham; Yung-Hsin Liu, Pharmaceutical Product Development Inc.; Seng-jaw Soong, The University of Alabama at Birmingham

Likelihood-Based Procedures for Disease Gene 9:35 a.m. Localization with General Pedigree Data— Shuyan Wan, Merck & Co., Inc.; Shili Lin, The Ohio State University

9:50 a.m. Statistical Methods for Genetic Association Studies Based on Haplotype Sharing—& Glen Satten, Centers for Disease Control and Prevention; Andrew Allen, Duke University

10:05 a.m. Constructing Gene Association Network for Rheumatoid Arthritis Using the Backward Genotype-Trait Association (BGTA) Algorithm— *Yuejing Ding, Columbia University; Tian Zheng, Columbia University; Iuliana Ionita-Laza, Harvard University; Lei Cong, Columbia University; Shaw-Hwa Lo, Columbia University

246 CC-255 C

◆ ○ Issues with Survival Data in Clinical Trials— Contributed

Biopharmaceutical Section, Biometrics Section

Chair(s): Larry Thorderson, ICON Clinical Research

8:35 a.m. Comparison of Methods for Handling Early **Dropouts in Analysis of Event Rates—** *Yuting Zhang, Amgen Inc.

Conditional Power for Stratified Logrank Tests— 8:50 a.m. Chung-Kuei Chang, Cephalon, Inc.; Lothar Tremmel, Cephaloh, Inc.

9:05 a.m. Optimal Cost-Effective Designs of Proof of Concept Trials—♦ Cong Chen, Merck & Co., Inc.

9:20 a.m. Nonparametric Confidence Intervals for Survival **Probabilities**— * Kun Chen, Bristol-Myers Squibb Company

6	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
9:35 a.m.	Generalized Estimating Equations for Clustered Survival Data— & Xiaohong Zhang, Amgen Inc.; Kenneth Koehler, Iowa State University; Terry M. Therneau, Mayo Clinic	Contribut	CC-250 C arametric Models and Biostatistics— ed ometrics Section
9:50 a.m.	Modeling Multicenter Survival Data: Simulation Results—& Daozhi Zhang, Daiichi Sankyo Pharma Development	Chair(s): Jone Chapel Hill	athan Gelfond, The University of North Carolina at
10:05 a.m.	A Note on Discrete-Time Survival Model with Application to Vertebral Fracture—& Hongwei Wang, Merck & Co., Inc.; Weili He, Merck & Co., Inc.; Arvind K. Shah, Merck & Co., Inc.	8:35 a.m. 8:50 a.m.	Maximum Average-Power Tests—& Chih-Rung Chen, National Chiao Tung University Estimating the Error Distribution Function in Semiparametric Regression—& Ursula Mueller- Harknett, Texas A&M University
247	CC-155 B ty and Risk—Contributed	9:05 a.m.	Inference for the Cox Regression Models with Time-Dependent Coefficients via Empirical Likelihood— * Yanqing Sun, The University
Business and	Economics Statistics Section er Berger, Arizona State University Optimal House Tenure and Portfolio Choice with		of North Carolina at Charlotte; Rajeshwari Sundaram, National Institute of Child Health and Human Development; Yichuan Zhao, Georgia State University
8:50 a.m.	Housing as a Hedging Asset— *Yu Zhang, Columbia Business School Comparing Portfolio Credit Risk Methods on	9:20 a.m.	Effects of Rounding of Conditional Frequencies on Odds Ratio— * Juyoun Lee, The Pennsylvania State University; Aleksandra Slavkovic, The
	Diversification Effect— & Ming-Chin Hung, Soochow University; Yi-Ping Chang, Soochow University; Huimei Liu, National Chengchi University	9:35 a.m.	Pennsylvania State University Use of Marginal Structural Models To Estimate the Effect of Epoetin on Survival of Dialysis Patients— *Yi Zhang, Medical Technology
9:05 a.m.	Volatility in Output Growth: A Wavelet Analysis— ❖ David J. Doorn, The University of Minnesota Duluth		and Practice Patterns Institute; Dennis Cotter, Medical Technology and Practice Patterns Institute; Mae Thamer, Medical Technology
9:20 a.m.	An Approximation Scheme for Option Pricing for Stochastic Volatility Models—* Jungyeon Yoon, The University of North Carolina at Chapel Hill; Chuanshu Ji, The University of North Carolina		and Practice Patterns Institute; James Kaufman, Veterans Affairs Boston Healthcare Systems/ Boston University School of Medicine; Miguel A. Hernan, Harvard School of Public Health
9:35 a.m.	at Chapel Hill Empirical Analysis of Volatility Dynamics in High-Frequency Returns with a Time-Varying	9:50 a.m.	Determining the Cutoff Points for a Continuous Biomarker When Its Interaction with Study Treatment Is of Interest with Time-to-Event Outcomes— & Keyue Ding, Queen's University
0.E0 a m	Component Model— & Ka Sing Man, Western Illinois University; Chunchi Wu, Singapore Management School	10:05 a.m.	Robust Methods for Estimation of State Occupancy Probabilities with Interval-Censored Multistate Data—*David Tolusso, University of Waterloo;
9:50 a.m.	A Multivariate Stochastic Volatility Model and Its		Richard J. Cook, University of Waterloo

249 CC-251 D ○ Nonparametric Methods for Machine Learning and High-Dimensional Data—Contributed

Section on Nonparametric Statistics

Chair(s): Rebecca Nugent, Carnegie Mellon University

8:35 a.m. A Method for Dimension Reduction in Classification with Functional Data— Santiago Velilla, Universidad Carlos III de Madrid

10:05 a.m.

Inference— Peng Liu, North Carolina State University; Peter Bloomfield, North Carolina

High-Dimensional Volatility Models— * David

S. Tsay, The University of Chicago Graduate

S. Matteson, The University of Chicago; Ruey

State University

School of Business

GA-The Grand America Hotel

8:50 a.m.	Exact Bagging of k-Nearest-Neighbor Learners— & Brian Steele, University of Montana	9:50 a.m.	Propagating SLAs Statistics in the IT Service Provider Environment— & Larisa Shwartz,	
9:05 a.m.	Consistency of Lasso Selection in High- Dimensional Approximating Models—Florentina		IBM T.J. Watson Research Center; Genady Grabarnik, IBM T.J. Watson Research Center	
	Bunea, Florida State University; *Shuva Gupta, Florida State University	10:05 a.m.	Estimating Traffic Volume over a Large Transportation Network from Noisy Data—	
9:20 a.m.	Statistical Approaches to Mining Multivariate Datastreams—& Eric Vance, Duke University		Jaimyoung Kwon, California State University, East Bay; Karl Petty, Berkeley Transportation	
9:35 a.m.	Modeling Computer Experiments with Multiple Responses—❖ Zhe Zhang, The Pennsylvania		Systems, Inc.	
	State University; Runze Li, The Pennsylvania State University; Agus Sudjianto, Bank of	251 ● Machin	CC-251 C e Learning—Contributed	
9:50 a.m.	America Nonparametric Tests and Finite Approximations	Section on Sta	atistical Computing, Section on Statistical Graphics, Section and Engineering Sciences, Section on Quality and Productivity	
	for Balanced and Unbalanced Multivariate Data,	Chair(s): Simon Sheather, Texas A&M University		
	with Applications—* Arne Bathke, University of Kentucky; Solomon W. Harrar, University of Montana	8:35 a.m.	Semisupervised Learning from Dissimilarity Data— & Michael Trosset, Indiana University; Carey E. Priebe, The Johns Hopkins University	
10:05 a.m.	Methodological Aspect of Interpretation of Principal Components—*Lev Sverdlov	8:50 a.m.	Algorithms for Support Vector Machines— Denise Reeves, George Mason University	
250	CC-155 A	9:05 a.m.	Random Forests for Feature Selection: To Be Handled with Caution—* Carolin Strobl, LMU	
	outer Experiments and Network Traffic	0.20	Munich	
	Contributed ysical and Engineering Sciences	9:20 a.m.	Feature Selection for Large Data— Peng Liu, Case Western Reserve University; Jiayang Sun,	
	a Katsaounis, The Ohio State University		Case Western Reserve University	
8:35 a.m.	Simultaneous Calibration and Tuning of Computer Experiments—& Gang Han, The Ohio State University; Thomas Santner, The Ohio State University	9:35 a.m.	Asymptotic Mean Squared Prediction Error of L2Boosting Estimator Under Mis-specified Models—& Tzu-Chang Cheng, University of Illinois at Urbana-Champaign; Ching-Kang Ing,	
8:50 a.m.	*Soma Roy, The Ohio State University; William Notz, The Ohio State University	9:50 a.m.	Academia Sinica On Efficient Supervised Learning of Multivariate t Mixture Models with Missing Information—	
9:05 a.m.	Blind Kriging— Roshan Vengazhiyil, Georgia Institute of Technology; Ying Hung, Georgia Institute of Technology; Agus Sudjianto, Bank of		Tsung-I Lin, National Chung Hsing University; Hsiu-J Ho, National Chung Hsing University; Pao-S Shen, Tunghai University	
	America	10:05 a.m.	Conditional Confidence Intervals for Classification	
9:20 a.m.	Optimal Design of Network Traffic Measurement Scheme—& Harsh Singhal, University of Michigan; George Michailidis, The University of Michigan		Error Rate— * Hie-Choon Chung, Gwangju University; Chien-Pai Han, University of Texas at Arlington	
9:35 a.m.	Sample-Based Estimation of Internet Traffic Flow Characteristics—*Lili Yang, The University of Michigan; George Michailidis, The University of Michigan			

Applied Session

Presenter

CC-Salt Palace Convention Center

Themed Session

 Applied Session Themed Session **GA**-The Grand America Hotel Presenter CC-Salt Palace Convention Center

252 9:05 a.m. The Impact of Incentives on Survey Participation CC-355 D and Reports of Intimate Partner and Sexual Variance Estimation–Advanced Applications— Violence—

Lisa Carley-Baxter, RTI International; Contributed Michele Lynberg, Centers for Disease Control and Section on Survey Research Methods Prevention; Susan Twiddy, RTI International Chair(s): Karen Messer, University of California, San Diego 9:20 a.m. Money Can Buy Me Love: Experiments To Increase Quasi-Monte Carlo Methods for Variance 8:35 a.m. Response Rates Using Monetary Incentives— Estimation— Stanislav Kolenikov, University of *Andrew Zukerberg, U.S. Census Bureau; Missouri-Columbia Megan Henly, U.S. Census Bureau; David Hall, Estimating the Distribution of Distances for a 8:50 a.m. U.S. Census Bureau Large-Scale Complex Survey—
\$\displaystyle \text{Jianqiang Wang,}\$ 9:35 a.m. Floor Discussion Iowa State University; Jean Opsomer, Iowa State University CC-251 B 254 Variance Estimation for Calibration with Estimated 9:05 a.m. Teaching Statistics in the Health Sciences— **Control Totals**—***** Jill Dever, University of Maryland; Richard Valliant, University of Contributed Maryland Section on Teaching Statistics in the Health Sciences, Section on Statistical Variance Estimation After Nearest-Neighbor Education 9:20 a.m. Imputation with Application to 2000 Census Chair(s): Patrick Arbogast, Vanderbilt University Long Form Sample—* Jae-kwang Kim, Yonsei 8:35 a.m. The Job Outlook for Biostatistics Graduates— University; Wayne Fuller, Iowa State University *Stephen W. Looney, Medical College of 9:35 a.m. On Variance Estimation Under Auxiliary Value Georgia; Joseph L. Hagan, Louisiana State Imputation in Sample Surveys— David University Health Sciences Center Haziza, University of Montréal; Jean-François **Developing a Biostatistical Collaboration Course** 8:50 a.m. Beaumont, Statistics Canada; Cynthia Bocci, in a Health Research Methodology Program— Statistics Canada Lehana Thabane, McMaster University; 9:50 a.m. Stephen Walter, McMaster University; Steven The Effect of Stochastic Population Controls on the Precision of Radio Listening Estimates— E. Hanna, McMaster University; Charlie Goldsmith, McMaster University; Eleanor * Richard Griffiths, Arbitron Inc. Pullenayegum, McMaster University 10:05 a.m. Floor Discussion 9:05 a.m. The Effect of Effect Size on Teaching, Collaboration, and Publishing—& Linda S. Hynan, 253 CC-355 A The University of Texas Southwestern Medical Improved Methods for Survey Contact and Center at Dallas; Alan Elliott, The University of Incentives—Contributed Texas Southwestern Medical Center at Dallas Section on Survey Research Methods 9:20 a.m. Use of Interesting Examples from Medicine and Chair(s): Christopher Johnson, Centers for Disease Control and Biology— * Harry Norton, Carolinas Medical Prevention Center 8:35 a.m. **Using Linear Programming Techniques for** 9:35 a.m. WMWodds: A Simple and Direct Effect-Size Balancing Automatic Case Assignments in Field Parameter for the Wilcoxon-Mann-Whitney Two-Surveys— & Edward English, NORC at the Sample Test— Ralph G. O'Brien, The Cleveland University of Chicago; Steven Pedlow, NORC at Clinic; John Castelloe, SAS Institute Inc. the University of Chicago 9:50 a.m. Calibrated Peer Review (CPR) as a Tool To Teach First Impression: An Advance Contact Experiment 8:50 a.m. **Interpretation of Linear Regression Coefficients:** to Locate and Engage Potential Respondents— **Development of the CPR Module and Examination** *Michael E. White, U.S. Census Bureau; Megan of Students' Results— Felicity B. Enders, Henly, U.S. Census Bureau; Amy B. Herron, U.S.

Mayo Clinic; Sarah Stoner, Mayo Clinic; Verna

Hoverman, Mayo Clinic

Bureau

Census Bureau; Andrew Zukerberg, U.S. Census

Applied Session

Presenter

CC-Salt Palace Convention Center

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10:05 a.m. A SAS Macro Implementation of a Multiple

Comparison Post Hoc Test— Alan Elliott, The University of Texas Southwestern Medical Center at Dallas; Linda S. Hynan, The University of Texas Southwestern Medical Center at Dallas

255 CC-254 A

● ② Estimating Social Statistics: Hurricanes, Murders, and Other Applications—Contributed

Social Statistics Section

Chair(s): Daniel Cork, Committee on National Statistics

8:35 a.m. Assessing Katrina's Impact: Report of a Study on the Mississippi Gulf Coast—* David A. Swanson, University of Mississippi; Mark Van Boening, University of Mississippi; Richard Forgette, University of Mississippi

8:50 a.m. Factors That Facilitated and Inhibited Job-Holding Among Female AFDC/TANF Recipients in 1996—

Denton Vaughan, Consultant

9:05 a.m. Under-Reporting of Means-Tested Transfer Benefits in the CPS—*Laura Wheaton, The Urban Institute

9:20 a.m. Dial M for Missing Murder Data—* James A. Fox, Northeastern University; Marc L. Swatt, Northeastern University

9:35 a.m. Measurement and Evaluation of Ancestry:
Differences Between Specific and Generalized
Responses—*Frank Hobbs, U.S. Census Bureau;

Angela Brittingham, U.S. Census Bureau

Measuring Religious Change Among Michigan

Southern Baptists— William Livingston, Baker College

10:05 a.m. Floor Discussion

9:50 a.m.

Special Presentation 10:30 a.m.-12:20 p.m.

256 CC-255 B ASA College Stat Bowl I—Other

ASA, IMS, ENAR, WNAR, SSC

Organizer(s): Stephanie Cano, University of Texas at San Antonio; Michael T. Anderson, University of Texas at San Antonio

Chair(s): Michael T. Anderson, University of Texas at San Antonio

Game 1— * Ellen Breazel, University of Georgia; * Ann Lazar, University of Colorado at Denver and Health Sciences Center; * Chris Rigdon, Arizona State University; * Tanya Sikdar, University of Georgia

Game 2— Ming-Hung (Jason) Kao, University of Georgia; Amanda-Sue King, Wright State University; Peng Liu, Case Western Reserve University; Balaji Raman, University of Connecticut

Game 3— Sourish Das, University of Connecticut; Yiying (Richard) Fan, Case Western Reserve University; Qin Wang, University of Georgia; Andrejus Parfionovas, Utah State University

Game 4—* Jien Chen, University of Georgia; * Xiaosong Li, Case Western Reserve University; * Sourish Saha, University of Florida; * Erin Tewksbury, Wright State University

Invited Sessions 10:30 a.m.-12:20 p.m.

257 CC-251 C

☼ Recent Advancements in Nonparametric Methods for Regression Model Selection and Model Checking—Invited

Section on Nonparametric Statistics, Biometrics Section Organizer(s): Lan Wang, The University of Minnesota Chair(s): Arne Bathke, University of Kentucky

10:35 a.m. Recent Developments in Noise-Addition Methods for Model Selection— Dennis Boos, North Carolina State University; Leonard A. Stefanski, North Carolina State University

11:00 a.m. Frequentist-Bayes Lack-of-Fit Tests Based on a Laplace Approximation—* Jeffrey Hart, Texas A&M University

11:25 a.m. A Goodness-of-Fit Test for Parametric and Semiparametric Models in Multiresponse Regression—* Ingrid Van Keilegom, Université catholique de Louvain; Song Xi Chen, Iowa State University

11:50 a.m. Robust Tests in Regression Models with Omnibus Alternatives and Bounded Influence—*Lan Wang, The University of Minnesota

12:15 p.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

258 CC-255 F

● Nonparametric Bayesian Inference for Challenging Biomedical Problems—Invited

International Society of Bayesian Analysis, Section on Bayesian Statistical Science, ENAR, Biometrics Section, Section on Nonparametric Statistics Organizer(s): Peter Mueller, The University of Texas M. D. Anderson Cancer Center

Chair(s): Athanasios Kottas, University of California, Santa Cruz

10:35 a.m. Bayesian Semiparametric Factor Modeling in Large P Problems—❖ Mike West, Duke University

11:05 a.m. The Matrix Stick-Breaking Process: Flexible Bayes Meta-Analysis—* David B. Dunson, National

Institute of Environmental Health Sciences

11:35 a.m. Bayesian Nonproportional Hazards Survival

Analysis— * Wesley Johnson, University of

California, Irvine

12:05 p.m. Floor Discussion

259 CC-355 B

◆ The National Children's Study: The Challenges and Promises of a Follow-Up Study of a Randomly Selected Cohort of 100,000 Pre- and Post-Conception Women and Their Offspring Through 21 Years of Life—Invited

ENAR, Biometrics Section, Section on Statistics and the Environment, Section on Statistics in Epidemiology, Section on Survey Research Methods, Section on Health Policy Statistics, Social Statistics Section, Section on Teaching Statistics in the Health Sciences

Organizer(s): Jonas H. Ellenberg, University of Pennsylvania Chair(s): Louise Ryan, Harvard School of Public Health/Dana-Farber Cancer Institute

10:35 a.m. The National Children's Study (NCS): Background, Rationale, and Scope—* Peter C. Scheidt, National Institute of Child Health and Human Development

10:55 a.m. Methods for Sampling Households To Identify
100,000 Births—*Jill M. Montaquila, Westat; J.
Michael Brick, Westat; Lester Curtin, Centers
for Disease Control and Prevention

11:15 a.m. Adaptive Tuning of Field Performance in the National Children's Study: Protection of the Inferential Base—*Jonas H. Ellenberg, University of Pennsylvania

11:35 a.m. Issues in the Measurement and Assessment of Environmental Exposures for a Large Prospective Cohort Study—* James Quackenboss, U.S. Environmental Protection Agency; Warren Galke, National Institute of Child Health and

Human Development; Susan Viet, Westat; David Marker, Westat; Steven Bodesky, LFR, Inc.

11:55 a.m. Disc: Roderick J. Little, University of Michigan

12:15 p.m. Floor Discussion

260 CC-259

Design of Experiment for Categorical Data— Invited

Biometrics Section, ENAR, Biopharmaceutical Section, General Methodology, Section on Physical and Engineering Sciences, Section on Quality and Productivity, WNAR

Organizer(s): Min Yang, University of Missouri-Columbia Chair(s): Min Yang, University of Missouri-Columbia

10:35 a.m. A Response-Driven Design: The Randomized Reinforcement Urn—* Nancy Flournoy, University of Missouri-Columbia

11:00 a.m. **Optimal Designs for Dose-Finding Studies**— *Holger Dette, Ruhr-Universitaet Bochum

11:25 a.m. Multicenter Clinical Trials with Binary Outcomes and Random Effects for Centers: Sample Size Determination—* Kathryn Chaloner, The University of Iowa

11:50 a.m. Optimal Designs of Clinical Studies for Multivariate Probit Model— Valeri V. Fedorov,

GlaxoSmithKline

12:15 p.m. Floor Discussion

261 CC-254 B

② Asymptotic Decision Theory and Its Applications—Invited

IMS, Section on Nonparametric Statistics

Organizer(s): Harrison Zhou, Yale University

Chair(s): Harrison Zhou, Yale University

10:35 a.m. Adaptive Nonparametric Density Estimation via the Root-Unroot Transform and Wavelet Block Threshholding—& Lawrence D. Brown, University of Pennsylvania

11:00 a.m. Asymptotic Equivalence for Nonparametric
Regression Experiments with Random Design—
Andrew Carter, University of California, Santa
Barbara

11:25 a.m. **Estimating Convex Functions—** Mark Low, University of Pennsylvania

11:50 a.m. Sufficiency and the Preservation of Fisher Information—* David Pollard, Yale University

12:15 p.m. **Floor Discussion**

☼ Themed Session
♠ Applied Session
❖ Presenter
CC-Salt Palace Convention Center
GA-The Grand America Hotel

262 CC-155 A 264 CC-155 F

Business and Economics Statistics Section

Organizer(s): Stuart Scott, Bureau of Labor Statistics

Chair(s): Ed Melnick, New York University

10:35 a.m. Recasting X11 Seasonal Adjustment Filters into Smoothers—& Tucker S. McElroy, U.S. Census Bureau; Agustin Maravall, Bank of Spain

11:00 a.m. New Models for Seasonal Time Series and Seasonal Adjustment—* David Findley, U.S. Census Bureau; Brian Monsell, U.S. Census Bureau; John Aston, Academia Sinica; Jyh-Ying Peng, Academia Sinica

11:25 a.m. Quantifying and Measuring Revisions in Time-Series Estimates—* Duncan Elliot, Office for National Statistics; Craig H. McLaren, Office for National Statistics; Xichaun (Mark) Zhang, Australian Bureau of Statistics

11:50 a.m. Empirical Evaluation of X-11 and Model-Based
Seasonal Adjustment Methods— Stuart Scott,
Bureau of Labor Statistics; Richard Tiller,
Bureau of Labor Statistics; Daniel Chow, Bureau
of Labor Statistics

12:15 p.m. Floor Discussion

263 CC-251 D

◆ Statistical Analysis and Forecast of Space-Time Wind Power Data—Invited

IMS, Section on Statistics and the Environment Organizer(s): Marc Genton, University of Geneva Chair(s): Marc Genton, University of Geneva

10:35 a.m. Calibrated Probabilistic Forecasting at the Stateline Wind Energy Center: The Regime-Switching Space-Time (RST) Method—& Kristin A. Larson, 3TIER; Tilmann Gneiting, University of Washington

11:00 a.m. Nonparametric Assessment of Properties of Space-Time Covariance Functions Associated with Wind Speed Data— *Bo Li, National Center for Atmospheric Research; Marc Genton, University of Geneva; Michael Sherman, Texas

A&M University

11:25 a.m. Models for Short-Term Wind Speed Prediction— *Amanda S. Hering, Texas A&M University; Marc Genton, University of Geneva

11:50 a.m. Disc: Michael Stein, The University of Chicago

12:10 p.m. Floor Discussion

◆ Confronting the Realities of Massive Imputation in Complex Surveys—Invited

Section on Survey Research Methods, Section on Health Policy Statistics, Section on Government Statistics

Organizer(s): Alan M. Zaslavsky, Harvard University; Yulei He, Harvard Medical School

Chair(s): Thomas Belin, University of California, Los Angeles

10:35 a.m. Preservation of Skip Patterns and Covariance
Structure through Semiparametric WholeQuestionnaire Imputation—*David R. Judkins,
Westat; Thomas Krenzke, Westat; Zizhong Fan,
MedImmune, Inc.; Andrea R. Piesse, Westat

11:00 a.m. Imputation in a Multimode Multi-instrument Study of Cancer Care— *Yulei He, Harvard Medical School; Alan M. Zaslavsky, Harvard University

11:25 a.m. Multiple Imputation Analysis of Association
Between Cardiovascular Disease Risk Factors
and Environmental Exposures—& Trivellore E.
Raghunathan, University of Michigan; Wei
Chen, Karmanos Cancer Institute

11:50 a.m. Disc: Michael D. Larsen, Iowa State University

12:10 p.m. Floor Discussion

265 CC-Ballroom B

Causal Inference: Past, Present, and Future— Invited

Council of Chapters, Biometrics Section, General Methodology, WNAR Organizer(s): V. A. Samaranayake, University of Missouri-Rolla Chair(s): V. A. Samaranayake, University of Missouri-Rolla

10:35 a.m. Statistics and Causal Inference: Past and Present— Paul Holland, Educational Testing Services

11:00 a.m. The Mathematics of Causal Inference in Statistics—* Judea Pearl, University of California, Los Angeles

11:25 a.m. Causal Inference as a Missing Data Problem:
Past, Present, and Future—*Donald B. Rubin,
Harvard University

11:50 a.m. Disc: Mark J. van der Laan, University of California, Berkeley

12:10 p.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

266 CC-255 D

Recent Developments of Statistics in Forest, Wildlife, Fisheries, and Ecological Research— Invited

WNAR, ENAR, Biometrics Section, Section on Statistical Consulting, Section on Statistics and the Environment

Organizer(s): Dongchu Sun, University of Missouri-Columbia Chair(s): Steve Sheriff, Missouri Department of Conservation

10:35 a.m. Searching for Ecological-Environmental Relationships—Eric P. Smith, Virginia Polytechnic Institute and State University; *Samantha Bates Prins, James Madison University

11:00 a.m. Statistical and Nonstatistical Issues in Designing Large-Scale Monitoring Efforts for the Northern Spotted Owl—* James A. Baldwin, USDA Forest Service; Joseph Lint, USDI Bureau of Land Management; Martin G. Raphael, USDA Forest Service; Eric Forsman, USDA Forest Service; John A. Laurence, USDA Forest Service; Robert Anthony, U.S. Geological Survey

11:25 a.m. Bayesian Spatial Modeling of Vegetation Coverage
Data in the Missouri Ozark Forest Ecosystem
Project—* Zhuoqiong (Chong) He, University
of Missouri-Columbia; Xiaoqian Sun, Clemson

University

11:50 a.m. Capture-Recapture Models: Uses of the Robust Design— & Ken Pollock, North Carolina State University

12:15 p.m. Floor Discussion

267 CC-251 B

Computationally Intensive Methods—Invited
Section on Statistical Computing, ENAR, Section on Nonparametric Statistics

Organizer(s): Yasmin H. Said, George Mason University Chair(s): Edward Wegman, George Mason University

10:35 a.m. **Exploratory Statistical Software**— Antony Unwin, University of Augsburg

11:05 a.m. Reducing the Variability in Least Squares Cross-

Validation Bandwidths—Jeffrey Hart, Texas A&M University; ❖Simon Sheather, Texas A&M

University

11:35 a.m. K Models Clustering—* James E. Gentle,

George Mason University; Li Li, George Mason

University

12:05 p.m. Floor Discussion

Invited Panels 10:30 a.m.-12:20 p.m.

268 CC-254 C

◆ Influencing State-by-State Curriculum Standards in Statistics for K-12 Education— Invited

ASA NCTM Joint Committee on Curriculum in Stats and Probability, Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Jerry Moreno, John Carroll University Chair(s): Jerry Moreno, John Carroll University

Christine Franklin, University of Georgia

* Katherine Halvorsen, Smith College

Cathy Seeley, University of Texas at Austin

12:15 p.m. Floor Discussion

269 CC-251 E

● ② Overarching Issues in Risk Analysis—Invited

Section on Risk Analysis, Section on Statisticians in Defense and National Security

Organizer(s): Duane Steffey, Exponent, Inc.

Chair(s): Alan Karr, National Institute of Statistical Sciences

Panelists: Duane Steffey, Exponent, Inc.

Bruce Craig, Purdue University

* Robert Obenchain, Eli Lilly and Company

Walter W. Piegorsch, The University of Arizona

12:05 p.m. Floor Discussion

Topic-Contributed Sessions 10:30 a.m.-12:20 p.m.

270 CC-355 C

Phase II/III Clinical Trials: Combine or Not To Combine—Topic-Contributed

Biopharmaceutical Section, WNAR, ENAR, Biometrics Section, Section on Health Policy Statistics

Organizer(s): James Hung, U.S. Food and Drug Administration Chair(s): James Hung, U.S. Food and Drug Administration

10:35 a.m. **Multiplicity in Adaptive Designs—** Willi Maurer, Novartis Pharmaceuticals AG

◆ Themed Session ◆ Applied Session ◆ Presenter CC-Salt Palace Convention Center GA-The Grand America Hotel

> Masahiro Takeuchi, Kitasato University; Hajime Uno, Kitasato University; Fumiaki Takahashi, Kitasato University

11:35 a.m. Stagewise Planning for Clinical Trials from Phase II to Phase III— Sue-Jane Wang, U.S. Food and Drug Administration

11:55 a.m. Disc: Ralph B. D'Agostino, Sr., Boston University12:15 p.m. Floor Discussion

271 CC-155 B

◆ Using Computer Models for Ecological, Environmental, and Biological Applications: A SAMSI Program—Topic-Contributed

Section on Bayesian Statistical Science, ENAR
Organizer(s): Susie Bayarri, University of Valencia
Chair(s): Susie Bayarri, University of Valencia

10:35 a.m. How Far Can a Physicist Travel Along the Bayesian Way: Probability, Uncertainty, and Adequacy in Climate-Like Modeling—* Leonard Smith, London School of Economics

10:55 a.m. Analyzing Input and Structural Uncertainty of a Hydrological Model with Stochastic Time-Dependent Parameters—* Peter Reichert, Swiss Federal Institute of Aquatic Science and Technology; Johanna Mieleitner, Eawag

11:15 a.m. Analysis of Seasonal Epidemiological
Parameters—* Ariel Cintron-Arias, Statistical
and Applied Mathematical Sciences Institute/
North Carolina State University; Peter Reichert,
Swiss Federal Institute of Aquatic Science and
Technology; Alun Lloyd, North Carolina State
University; H. T. Banks, North Carolina State

11:55 a.m. Calibration of an Air Quality Model— Serge
Guillas, Georgia Institute of Technology; Lew
Lefton, Georgia Institute of Technology; Yunsoo
Choi, Georgia Institute of Technology; Yuhang
Wang, Georgia Institute of Technology

12:15 p.m. Floor Discussion

University

272 CC-255 E

◆ Genome-Wide Studies and Proteomics in Cancer—Topic-Contributed

Biometrics Section, ENAR, WNAR

Organizer(s): Terry Hyslop, Thomas Jefferson University Chair(s): Inna Chervoneva, Thomas Jefferson University

Statistical Validation of Breast Cancer Subtypes—
 Amy Kapp, Stanford University; Robert
 Tibshirani, Stanford University

10:55 a.m. Analytical Pipeline for 2D Gels—& Francoise Seillier-Moiseiwitsch, Georgetown University Medical Center

11:15 a.m. Two-Stage Designs for Genome-Wide Association Studies in Cancer—* Abhijit Dasgupta, Thomas Jefferson University

11:35 a.m. Effect of the Number of Top Genes on Survival
Analysis in Microarray Data—* Dung-Tsa Chen,
Moffitt Cancer Center; Michael Schell, Moffitt
Cancer Center; Steven Eschrich, Moffitt Cancer
Center; Alan Cantor, Moffitt Cancer Center;
Timothy Yeatman, Moffitt Cancer Center

11:55 a.m. Disc: Sin-Ho Jung, Duke University

12:15 p.m. Floor Discussion

273 CC-355 D

Adaptive Medical Device Clinical Trials— Topic-Contributed

Biopharmaceutical Section, ENAR

Organizer(s): Lilly Yue, U.S. Food and Drug Administration Chair(s): Laura Thompson, U.S. Food and Drug Administration

10:35 a.m. Comparison of Two Adaptive Randomization Methods in Multicenter Clinical Trials—*Lei Peng, Abbott Vascular

10:55 a.m. Data Analysis in a Medical Device Trial
When Planned Randomized Enrollment Is Too
Slow—& Yonghong Gao, U.S. Food and Drug
Administration; Gerry Gray, U.S. Food and Drug
Administration

11:15 a.m. Statistical Analysis for Two-Stage Adaptive Design with Different Study Endpoints— Shein-Chung Chow, Duke University; Siu-Keung Tse, Hong Kong City University

11:35 a.m. One Adaptive Design and Its Application to Medical Device PMA Study— & Xiaolong Luo, Johnson & Johnson PRD; David Snead, Cordis, a Johnson Company; Dennis Donohoe, Cordis, a Johnson & Johnson Company

General	Program	Schedule
Concrai	i i ogi aiii	Julicuale

	Themed Session Applied Session Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
	7 Applied Session V 17 Section	oo can raidoo (on the Grand America Heler
11:55 a.m.	Flexible Designs in Clinical Trials: Case studies— Ning Li, U.S. Food and Drug Administration	11:35 a.m.	Inference for Vector Processes with Long Memory via the EM Algorithm—*Nalini Ravishanker,
12:15 p.m.	Floor Discussion		University of Connecticut; Jeffrey Pai, University of Manitoba
274	CC-355 A	11:55 a.m.	Spline-Backfitted Kernel Smoothing of Additive
	stical Issues of a Thorough QT/QTc		Models in Time Series— Li Wang, Michigan
	ppic-Contributed		State University; Lijian Yang, Michigan State University
Biopharmaceu	tical Section	12:15 p.m.	Floor Discussion
Organizer(s):	Joanne Zhang, U.S. Food and Drug Administration	р	
Chair(s): Scot	t Patterson, GlaxoSmithKline	276	CC-251 F
10:35 a.m.	Effect of Baseline Measurement on the Change from Baseline in QTc Intervals—& Hong Tian, Johnson & Johnson PRD; Jaya Natarajan, Johnson & Johnson PRD	O High-Di Analysis—	mensional Inference and Spatial Topic-Contributed Nonparametric Statistics
10:55 a.m.	QT Interval Variability and Sample Size	Organizer(s):	Jinchi Lv, Princeton University
10.00 4.111.	Consideration for Thorough QT Studies—*Lu	Chair(s): Ying	gying Fan, Princeton University
	Zhang, Eli Lilly and Company; Alex Dmitrienko, Eli Lilly and Company	10:35 a.m.	Profile-Kernel Likelihood Inference with Diverging Number of Parameters— & Clifford Lam, Princeton
11:15 a.m.	Examination of Concentration Effect Modeling	40.55	University; Jianqing Fan, Princeton University
11:35 a.m.	of QT Interval from a Statistical Perspective— ❖ Brian Smith, Amgen Inc. Statistical Issues of a Thorough QT/QTc Study—	10:55 a.m.	High-Dimension, Low Sample Size (HDLSS) Data Asymptotics— * Xuxin Liu, The University of North Carolina at Chapel Hill
11.33 a.111.	*Joanne Zhang, U.S. Food and Drug Administration	11:15 a.m.	Model Selection Using Hellinger Distance: Methods
11:55 a.m.	Disc: Venkat Sethuraman, Novartis Pharmaceuticals		and Applications— Xiaofan Cao, Colorado State University; Haonan Wang, Colorado State
12:15 p.m.	Floor Discussion		University; Hariharan Iyer, Colorado State University
075	00.2544	11:35 a.m.	Mixture of Thresholded, Transformed Gaussian
275 © Diverse Topic-Cor	CC-254 A Applications of Modern Time Series— atributed		Processes Modeling with Application to Rainfall Extremes—*Jie Zhou, The University of North Carolina at Chapel Hill; Richard L. Smith, The
•	and Economics Statistics Section		University of North Carolina at Chapel Hill
Organizer(s):	Michael Levine, Purdue University	11:55 a.m.	Sure Independence Screening for Ultra-High
Chair(s): Ton	glin Zhang, Purdue University		Dimensional Feature Space— Jinchi Lv, Princeton
10:35 a.m.	Local Whittle Estimation of Fractional Integration for Nonlinear Processes— & Xiaofeng Shao, University of Illinois; Wei Biao Wu, The University of Chicago	12:15 p.m.	University; Jianqing Fan, Princeton University Floor Discussion
10:55 a.m.	Minimax Detection of Structural Change Using Large Deviations—& Chuan Goh, University of Toronto		
11:15 a.m.	State-Space Discrimination and Clustering of Atmospheric Time Series Data Based on Kullback Information Measures—* Joseph Cavanaugh, The University of Iowa; Thomas Bengtsson, Alcatel-		

Lucent

CC-250 A

Themed Session

Applied Session

Presenter

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277 CC-155 C

When Rubber Meets the Road: Bayesian Clinical Trials in Action - MDA Experience—Topic-Contributed

Section on Bayesian Statistical Science, ENAR

Organizer(s): I. Jack Lee, The University of Texas M. D. Anderson Cancer Center

Chair(s): J. Kyle Wathen, The University of Texas M. D. Anderson Cancer Center

10:35 a.m. Bayesian Clinical Trials Designed and Conducted at the University of Texas M. D. Anderson Cancer Center (MDACC)—Swati Biswas, University of North Texas Health Science Center; *Diane D. Liu, The University of Texas M. D. Anderson Cancer Center; J. Jack Lee, The University of Texas M. D. Anderson Cancer Center; Donald A. Berry, The University of Texas M. D. Anderson Cancer Center

10:55 a.m. Five-Arm Dose Selection Trial with Adaptive Randomization—* Mark F. Munsell, The

University of Texas M. D. Anderson Cancer Center; Donald A. Berry, The University of Texas M. D. Anderson Cancer Center; J. Kyle Wathen, The University of Texas M. D. Anderson Cancer Center; Marcos J. de Lima, The University of Texas M. D. Anderson Cancer

Center

11:15 a.m. An Application of Adaptive Randomization Using

Hierarchical Bayes Model in a Prospective
Biomarker-Based Clinical Trial— Suyu Liu, The
University of Texas M. D. Anderson Cancer
Center; Edward S. Kim, The University of
Texas M. D. Anderson Cancer Center; Xian
Zhou, Genentech, Inc.; Ignacio Wistuba, The
University of Texas M. D. Anderson Cancer
Center; Roy Herbst, The University of Texas
M. D. Anderson Cancer Center; Jeffrey Lewis,
The University of Texas M. D. Anderson Cancer
Center; J. Jack Lee, The University of Texas M.
D. Anderson Cancer Center

11:35 a.m. Software and Practical Considerations for Designing and Conducting Innovative Clinical Trials at MDACC—*John D. Cook, The University of

Texas M. D. Anderson Cancer Center

11:55 a.m. When Rubber Meets the Road: Bayesian Clinical Trials in Action—MDA Experience— & J. Jack Lee, The University of Texas M. D. Anderson Cancer Center

12:15 p.m. Floor Discussion

278

● Multistate Life Table Methods in Health Policy Research—Topic-Contributed

Section on Health Policy Statistics

Organizer(s): Paula Diehr, University of Washington

Chair(s): Beth Ann Griffin, RAND Corporation

10:35 a.m. Evaluation of Using Life Table Methods Combined with Microsimulation To Produce Estimates of Distributions—James Lubitz, National Center for Health Statistics; & Liming Cai, National Center for Health Statistics; Nathaniel Schenker,

National Center for Health Statistics; Paula Diehr, University of Washington

10:55 a.m. Age-Specific Prevalence and Years of Healthy Life

in a System with Three Health States—* Paula Diehr, University of Washington; David Yanez, University of Washington; Ann Derleth, University of Washington; Anne Newman,

University of Pittsburgh

11:15 a.m. Multistate Life Table Distributions for Highly

Refined Subpopulations from Cross-Sectional Data: A Bayesian Alternative to Sullivan's Method— Scott Lynch, Princeton University

11:35 a.m. An Extension of the Cohort-Component Model of

Population Projection: From Multistate Life Table to Multistate Model for Households and Living Arrangement Projections— & Kenneth Land, Duke University; Yi Zeng, Duke University

11:55 a.m. Flowgraph Models for Multivariate Survival Data— & C. Lillian Yau, Tulane University

12:15 p.m. Floor Discussion

279 CC-250 D

Marketing Research Challenging Statistics: Problems Solved and Unsolved—Topic-Contributed

Section on Statistics and Marketing

Organizer(s): Stan Lipovetsky, GfK Custom Research North America Chair(s): Raimund K. Wildner, GfK Group

10:35 a.m. Methodology and Challenges in Search Marketing at Business.com— Nathan Janos, Business. Com; Tom Anderson, Business.Com; Paul

Dagum, Business.Com

10:55 a.m. Optimal Designs for Choice Experiments To

measure the Willingness to Pay— & Bart
Vermeulen, Katholieke Universiteit Leuven;
Peter Goos, Universiteit Antwesrpen; Martina
Vandebroek, Katholieke Universiteit Leuven

General	Program Schedule
•	Themed Session • Applied Session • Presenter
11:15 a.m.	Statistical Issues in Optimal Product Design— *James Cochran, Louisiana Tech University
11:35 a.m.	A Theory of Attribution— & Barry Feldman, Prism Analytics/Russell Investment
11:55 a.m.	Using Cooperative Game Theory as a Foundation for Marketing Research— Shon Magnan, GfK Custom Research North America; Stan Lipovetsky, GfK Custom Research North America; Ken Powaga, GfK Custom Research North America
12:15 p.m.	Floor Discussion
280 ● ② Optin Topic-Cor WNAR, ENAR	CC-260 nal Designs: Ideas and Applications— ntributed
Organizer(s):	Weng-Kee Wong, University of California, Los Angeles
Chair(s): Kim	ımie C. Carriere, University of Alberta
10:35 a.m.	Optimal Allocation for Sequential Binary Response Experiments— & William Rosenberger, George Mason University; Yevgen Tymofyeyev, Merck & Co., Inc.; Feifang Hu, University of Virginia
10:55 a.m.	Optimal Allocation in Sequential Continuous Response Experiments—& Feifang Hu, University of Virginia; Hongjian Zhu, University of Virginia
11:15 a.m.	D-Optimal Minimax Response Surface Designs— *Julie Zhou, University of Victoria
11:35 a.m.	Some Results on Two-Level Nonregular Designs Constructed from Quaternary Codes—&Kin Hing (Frederick) Phoa, University of California, Los

Los Angeles Optimal Designs for Dose-Finding Experiments in 11:55 a.m. Toxicity Studies— * Weng-Kee Wong, University

> of California, Los Angeles; Holger Dette, Ruhr-Universitaet Bochum; Andrey Preplyshev, St.

Angeles; Hongquan Xu, University of California,

Petersburg State University

12:15 p.m. Floor Discussion

281 CC-355 E

Sample Size and Effect Size Estimation— Topic-Contributed

Biopharmaceutical Section, Section on Statistical Consulting, WNAR Chair(s): Yonggang Zhao, Wyeth

Sample Size for Equivalence Trials: A Case Study 10:35 a.m. from a Vaccines Lot Consistency Trial-\$Jitendra Ganju, Amgen Inc.

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Assessing the Accuracy of the WMWodds Method 10:55 a.m. for the Wilcoxon-Mann-Whitney Test—* John Castelloe, SAS Institute Inc.; Ralph G. O'Brien, The Cleveland Clinic

11:15 a.m. Power and Sample Size Estimation for Comparing Two Means: Assessment and a New Tool—❖Ken

Gerow, University of Wyoming

11:35 a.m. Localization versus Holism in the Analysis of Neurological Imaging Data: Power Comparisons of Multivariate and Univariate Methods— * Dawson Hedges, Brigham Young University; Suzanne Hendrix, Myriad Pharmaceuticals; Bruce Brown, Brigham Young University

11:55 a.m. Small Sample Properties of Information-Based **Monitoring**—**❖** David Sawrie, The University of Alabama at Birmingham; Christopher S. Coffey, The University of Alabama at Birmingham

12:15 p.m. Floor Discussion

Topic-Contributed Poster Presentations 10:30 a.m.-12:20 p.m.

CC-Exhibit Hall D 282

Atypical Experiments in Industry—Topic-Contributed

Section on Physical and Engineering Sciences Chair(s): Dongseok Choi, Oregon Health & Science University

Applications and case studies

- Consumer Product Optimization Through a Mixture-of-Mixtures Experiment—❖ William Brenneman, Procter & Gamble
- 02 What Textbook Experiments?— * Winson Taam, The **Boeing Company**
- 03 Estimating the Probability of Detecting Cracks in Aerospace Structures Using Nondestructive Inspections— Peter Hovey, University of Dayton

Experimental design

- **Design on Nonconvex Regions: Optimal Experiments** for Spatial Process Prediction with Applications to Industrial Processes— Matthew Pratola, Simon Fraser University
- 05 Dynamic Structural Health Monitoring Validation— David Banaszak, Air Force Research Laboratory
- 06 Complex Experimental Design and Simple Data **Analysis**—**❖** Joseph G. Pigeon, Villanova University

◆ Themed Session
◆ Applied Session
◆ Presenter
CC-Salt Palace Convention Center
GA-The Grand America Hotel

O7 J-FACT: A Factor-Covering Design Tool for Deriving
Software Test Cases—* Joseph Morgan, SAS Institute
Inc.; Bradley Jones, SAS Institute Inc.

Contributed Sessions 10:30 a.m.-12:20 p.m.

283 CC-255 C

◆ Recent Advances in Microarray Data Analysis III—Contributed

Biometrics Section

Chair(s): Ning Sun, Yale University

10:35 a.m. ROC Curve of a Generalized Odds-Rate Model—

*Huining Kang, University of New Mexico;
Edward J. Bedrick, University of New Mexico;
Susan R. Atlas, University of New Mexico;
Cheryl L. Willman, University of New Mexico

10:50 a.m. Transformation for the Additive Effect on the Affymetrix Probe Data—& Fenghai Duan, University of Nebraska Medical Center

11:05 a.m. Variable Selection in Penalized Model-Based
Clustering with Cluster-Dependent Diagonal
Covariances with Application to Microarray Data—
*Benhuai Xie, The University of Minnesota;
Wei Pan, The University of Minnesota; Xiaotong
Shen, The University of Minnesota

11:20 a.m. FDR Control in Identification of Differentially
Expressed Genes Using Mixed Linear Models
When Some Variance Components May Be Zero—
& Cumhur Demirkale, Iowa State University;
Tapabrata Maiti, Iowa State University; Dan
Nettleton, Iowa State University

11:35 a.m. Controlling the Average False Discovery in Large-Scale Multiple Testing—& Meng Du, University of Toronto; Muni S. Srivastava, University of Toronto

11:50 a.m. Integrated Clustering of Heterogeneous Genomic
Data—* Jyotsna Kasturi, Johnson & Johnson PRD

12:05 p.m. Reconstruction of Gene Transcription Regulation
Network Using a Bayesian Approach—& Feng
Hong, University of Illinois at Urbana-Champaign

284 CC-258

Design and Sampling Methods—Contributed

Biometrics Section

Chair(s): Shenghua (Kelly) Fan, California State University, East Bay 10:35 a.m. Optimal Designs in High-Throughput Screening—

*Xianggui Qu, Oakland University

10:50 a.m. Sampling Design for a Survey of Pregnant Women

Following a Natural Disaster—* Jason Hsia, Centers for Disease Control and Prevention; Marianne E. Zotti, Centers for Disease Control and Prevention; Van T. Tong, Centers for Disease Control and Prevention

11:05 a.m. Adaptive Two-Stage Designs for Heterogeneous Patient Populations in Phase II Cancer Trials—

*Karen Messer, University of California, San Diego; Michael Donohue, University of

California, San Diego

11:20 a.m. Inverse Probability-Weighted Estimators in the Stratified Nested Case-Control Sampling Methods— Sachiko Tanaka, Tokyo University of Science; Yutaka Matsuyama, University of Tokyo; Shiro Tanaka, University of Tokyo; Seiichiro Yamamoto, National Cancer Center

11:35 a.m. Precision of Double Sampling with Error-Prone and Error-Free Measures and Optimum Case-Control Study Design—*Jun-mo Nam, National Cancer Institute

11:50 a.m. Early Termination of Two-Stage, Phase II, One-Sample Cancer Clinical Trials— William E. Barlow, Cancer Research and Biostatistics

12:05 p.m. Design of Long-Term Viral Dynamic Studies in Semiparametric Mixed-Effects Models—* Jeong-Gun Park, Harvard School of Public Heath/Frontier Science & Technology Research Foundation; Yangxin Huang, University of South Florida; Yiliang Zhu, University of South Florida

285 CC-355 F

◆ The Era of Omics Data: Statistical Issues and Possible Solutions—Contributed

Biopharmaceutical Section, Biometrics Section Chair(s): Jingli Song, Eli Lilly and Company

10:35 a.m. Proteomic Analysis by 2-D PAGE for Response to Low-Dose Ionizing Radiation and Arsenic Exposure—& Dan Li, University of California, Davis; Susanne R. Berglund, University of California, Davis; Alison Santana, University of California, Davis; Zelanna Goldberg, University of California, Davis; David Rocke, University of California, Davis

10:50 a.m. Statistical Differential Analysis of 2-D Gel Images—❖ Feng Li, University of Maryland, Baltimore County; Francoise Seillier-Moiseiwitsch, Georgetown University Medical Center

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Matter?— * Xiting Yang, Carnegie Mellon University;

11:05 a.m.	Methods for Classification of NMR Metobololomic Spectroscopy— * Yuanxin Xi, University of California, Davis; David Rocke, University of California, Davis	11:50 a.m.	Bayesian Analysis of the Effect of Intentional Weight Loss on Mortality Rate—Nengjun Yi, The University of Alabama at Birmingham; Shouluan Ding, The University of Alabama at Birmingham; \$Scott W. Keith, The University of	
11:20 a.m.	Genetic Association Analysis Using the Penalized Likelihood Approach—*Xiwu Lin, GlaxoSmithKline; Kijoung Song, GlaxoSmithKline; Daniel Parks, GlaxoSmithKline; Jie Cheng, GlaxoSmithKline; Kwan Lee, GlaxoSmithKline	12:05 p.m.	Alabama at Birmingham; Christopher S. Coffey, The University of Alabama at Birmingham; David B. Allison, The University of Alabama at Birmingham Testing Random Effects in the Linear Mixed Model	
11:35 a.m.	Microarray Experiments for Pharmacogenomics— *Youlan Rao, The Ohio State University; Yoonkyung Lee, The Ohio State University; Jane Chang, Bowling Green State University; Tao Wang, University of South Florida; Jason C. Hsu, The Ohio State University	·	Using Bayes Factors— Benjamin Saville, The University of North Carolina at Chapel Hill; Amy H. Herring, The University of North Carolina at Chapel Hill	
11:50 a.m.	Analyzing Omics Data Using rSVD and NMF—& Li Liu, sanofi-aventis; Donghui Zhang, sanofi-aventis		CC-155 E sian Model Selection, FDR, and HIV ons—Contributed	
12:05 p.m.	A New Procedure of Identifying Differentially	Section on Bayesian Statistical Science		
	Expressed Genes in Microarray Experiments—Chunrong Dong, Case Western Reserve	. ,	nard Carlson, Medica	
	University	10:35 a.m.	Bayesian Model Selection in High-Dimensional Genetic Association Studies— Melanie Wilson, Duke University	
ENAR, Biomet	CC-255 A Methods—Contributed rics Section de Davis, University of Missouri-Columbia	10:50 a.m.	A Bayesian Multiple Comparison Procedure for Unbalanced Mixed Models—* Junfeng Shang, Bowling Green State University; Farroll T. Wright, University of Missouri-Columbia;	
10.55 a.iii.	Comparing Various Designs of Temporal		Joseph Cavanaugh, The University of Iowa	
40.50	Comparing Various Designs of Temporal Microarray Experiments— * Yijun Yang, Boston University; Paola Sebastiani, Boston University	11:05 a.m.	Using FDR To Address a Controversy About the Meaning of P Values— & Hormuzd Katki,	
10:50 a.m.	Microarray Experiments—	11:05 a.m. 11:20 a.m.	Using FDR To Address a Controversy About the Meaning of P Values—& Hormuzd Katki, National Institutes of Health Modeling and Computation for Parametric Bayesian Multiple Hypothesis Testing—& James Scott, Duke University; James Berger, Duke	
10:50 a.m. 11:05 a.m.	Microarray Experiments— *Yijun Yang, Boston University; Paola Sebastiani, Boston University Bayesian Analysis of Cross-Classified Spatial Data with Autocorrelation— *Xiaolei Li, GlaxoSmithKline; Murray K. Clayton, University		Using FDR To Address a Controversy About the Meaning of P Values—& Hormuzd Katki, National Institutes of Health Modeling and Computation for Parametric Bayesian Multiple Hypothesis Testing—& James Scott, Duke University; James Berger, Duke University Nonparametric Bayesian Estimation of Positive False Discovery Rates—& Anindya Roy, University of Maryland, Baltimore County;	
	Microarray Experiments— \$\display \text{ Yijun Yang, Boston University; Paola Sebastiani, Boston University} Bayesian Analysis of Cross-Classified Spatial Data with Autocorrelation— \$\display \text{ Xiaolei Li, } \text{ GlaxoSmithKline; Murray K. Clayton, University of Wisconsin-Madison} Bayesian Sample Size Determination Under Hypothesis Tests— \$\display \text{ Gary Cutter, The University of Alabama at Birmingham; Xiao Zhang, The} The University of Alabama Alabama Service Management Services Ser	11:20 a.m. 11:35 a.m.	Using FDR To Address a Controversy About the Meaning of P Values—& Hormuzd Katki, National Institutes of Health Modeling and Computation for Parametric Bayesian Multiple Hypothesis Testing—& James Scott, Duke University; James Berger, Duke University Nonparametric Bayesian Estimation of Positive False Discovery Rates—& Anindya Roy, University of Maryland, Baltimore County; Subhashis Ghoshal, North Carolina State University; Yongqiang Tang, SUNY Health Science Center	
11:05 a.m. 11:20 a.m.	Microarray Experiments—* Yijun Yang, Boston University; Paola Sebastiani, Boston University Bayesian Analysis of Cross-Classified Spatial Data with Autocorrelation—* Xiaolei Li, GlaxoSmithKline; Murray K. Clayton, University of Wisconsin-Madison Bayesian Sample Size Determination Under Hypothesis Tests—* Gary Cutter, The University of Alabama at Birmingham; Xiao Zhang, The University of Alabama at Birmingham Bayesian SUR Modeling of Multiple Ordinal Traits for Genome-Wide Epistatic OTL Mapping— * Samprit Banerjee, The University of Alabama at Birmingham; Nengjun Yi, The University of Alabama at Birmingham	11:20 a.m.	Using FDR To Address a Controversy About the Meaning of P Values—& Hormuzd Katki, National Institutes of Health Modeling and Computation for Parametric Bayesian Multiple Hypothesis Testing—& James Scott, Duke University; James Berger, Duke University Nonparametric Bayesian Estimation of Positive False Discovery Rates—& Anindya Roy, University of Maryland, Baltimore County; Subhashis Ghoshal, North Carolina State University; Yongqiang Tang, SUNY Health Science Center A Hierarchical Bayesian Approach in Viral Dynamic System-Based Differential Equation Models	
11:05 a.m.	Microarray Experiments— *Yijun Yang, Boston University; Paola Sebastiani, Boston University Bayesian Analysis of Cross-Classified Spatial Data with Autocorrelation— *Xiaolei Li, GlaxoSmithKline; Murray K. Clayton, University of Wisconsin-Madison Bayesian Sample Size Determination Under Hypothesis Tests— *Gary Cutter, The University of Alabama at Birmingham; Xiao Zhang, The University of Alabama at Birmingham Bayesian SUR Modeling of Multiple Ordinal Traits for Genome-Wide Epistatic QTL Mapping— *Samprit Banerjee, The University of Alabama at Birmingham; Nengjun Yi, The University of	11:20 a.m. 11:35 a.m.	Using FDR To Address a Controversy About the Meaning of P Values—& Hormuzd Katki, National Institutes of Health Modeling and Computation for Parametric Bayesian Multiple Hypothesis Testing—& James Scott, Duke University; James Berger, Duke University Nonparametric Bayesian Estimation of Positive False Discovery Rates—& Anindya Roy, University of Maryland, Baltimore County; Subhashis Ghoshal, North Carolina State University; Yongqiang Tang, SUNY Health Science Center A Hierarchical Bayesian Approach in Viral Dynamic	

Antonio

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center

Joseph B. Kadane, Carnegie Mellon University; Heidi M. Crane, University of Washington

288 CC-250 B

Sampling Issues and Variance Estimation— Contributed

Section on Government Statistics, Section on Physical and Engineering Sciences, Section on Survey Research Methods

Chair(s): Michael P. Cohen, Statistical Consultant

10:35 a.m. **Effects of Calculating Standard Errors Using** Sampling versus Variance Weights for 2004 National Nursing Home Survey— Rong Cai, National Center for Health Statistics; Sarah Gousen, National Center for Health Statistics; Iris Shimizu, National Center for Health Statistics; Robin Remsburg, National Center for

Health Statistics

10:50 a.m. Variance Estimations for International Price Program Indexes— * Te-Ching Chen, Bureau of Labor Statistics; Patrick Bobbitt, Bureau of Labor Statistics; James A. Himelein Jr., Bureau of Labor Statistics; Steven P. Paben, Bureau of Labor Statistics; Moon Jung Cho, Bureau of Labor Statistics; Lawrence Ernst, Bureau of

Labor Statistics 11:05 a.m. Applying M-Estimation to Computation of Price

Indexes— * Zdenek Patak, Statistics Canada

Can a Geographic Sort Improve Hot Deck Donor 11:20 a.m. Imputation in the Canadian Census?— Darryl

Janes, Statistics Canada

11:35 a.m. Imputation Classes by Size Measure for the Annual Survey of Manufacture of Statistics Canada— *Yi

Li. Statistics Canada

11:50 a.m. Floor Discussion

289 CC-251 A

Nonparametric Methods for Reliability and **Health Sciences Applications—Contributed**

Section on Nonparametric Statistics, Section on Health Policy Statistics, Section on Teaching Statistics in the Health Sciences

Chair(s): Anton Westveld, Washington University in St. Louis

10:35 a.m. A Nonparametric Test for Homogeneity of Survival Means—❖ Mohammad Rahbar, Michigan State University; Sangchoon Jeon, Michigan State University; Joseph C. Gardiner, Michigan State University

10:50 a.m. The Simultaneous Use of Weighted Logrank and Weighted Kaplan-Meier Statistics with Clustered Right-Censored Data—Yunchan Chi, National Cheng Kung University; *Pei-Fang Su, National

Cheng Kung University

11:05 a.m. Exact, Distribution-Free Confidence Intervals for Late Effects in Censored Matched Pairs— Shoshana Daniel, University of Pennsylvania; Paul Rosenbaum, University of Pennsylvania

Use of the Spike-Motif Distance Metric-11:20 a.m. *Katherine Tranbarger, Amherst College

11:35 a.m. Semiparametric Estimation of Hazard Function with Failure Indicators MAR— Chunling Liu, University of Hong Kong; Qihua Wang, University of Hong Kong

Nonparametric Estimation of Mean Residual Life 11:50 a.m. Function— Shufang Liu, North Carolina State University; Sujit Ghosh, North Carolina State University

12:05 p.m. Two-Fold Heteroscedastic Nested Models When the Number of Subclasses Is Large—❖ Shu-min Liao, The Pennsylvania State University; Michael G. Akritas, The Pennsylvania State University

290 CC-250 C

Helpful Teaching Techniques —Contributed

Section on Statistical Education, Section on Teaching Statistics in the **Health Sciences**

Chair(s): Arlene Casiple, James Madison University

10:35 a.m. An Experience in Teaching Inferential Statistics with Focus on the Analyses of Simple Survey Data— *Bodapati V.R. Gandhi, University of Puerto Rico

10:50 a.m. Teaching Data Mining to Undergraduate Business Students— * Margaretha Hsu, Shippensburg University

Students Don't Do 'Optional'— * Kimberly Denley, 11:05 a.m. University of Mississippi

11:20 a.m. Teaching Hypothesis Testing Using a Magic Trick— Gregory L. Snow, Intermountain Healthcare

11:35 a.m. Pig Data and Bayesian Inference on Multinomial Probabilities—*John Kern, Duquesne University

11:50 a.m. Using Humming To Teach Experimental Design in Introduction Statistics— Cora Neal, Sonoma State University

Using Matlab in the First Probability and Statistics 12:05 p.m. **Sequence**—***** John Turner, U.S. Naval Academy

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

291 CC-250 EF Environmental Health Effects—Contributed

Section on Statistics and the Environment, ENAR, Section on Health Policy Statistics, Section on Statistical Graphics

Chair(s): Brian Reich, North Carolina State University

10:35 a.m. Targeting Areas at Risk for Childhood Lead
Poisoning—& Margaret Conomos, U.S.
Environmental Protection Agency; Warren
Strauss, Battelle; Tim Pivetz, Battelle; Jyothi
Nagaraja, Battelle; Elizabeth Sloan, Battelle;
Rona Boehm, Battelle; Michael Schlatt, Battelle;
Darlene Wells, Battelle; Michael Morara,
Battelle; Bruce Buxton, Battelle; Barry D.
Nussbaum, U.S. Environmental Protection
Agency; Heather Case, U.S. Environmental
Protection Agency

10:50 a.m. Spatio-Temporal Dynamics of Eastern Equine Encephalitis in Southern New Hampshire—*Ernst Linder, University of New Hampshire; Carlee Moser, University of New Hampshire; Francois Laflamme, Statistics Canada; Jason Stull, U.S. Department of Health & Human Services

11:05 a.m. Exploring the Relation Between Frailty and Negative Health Outcomes Associated with Air Pollution in an Older Population— Sandrah Eckel, Johns Hopkins Bloomberg School of Public Health; Thomas A. Louis, The Johns Hopkins University; Karen Bandeen-Roche, Johns Hopkins Bloomberg School of Public Health; Linda Fried, Johns Hopkins Medical Institutions; Helene Margolis, California Department of Health Services

11:20 a.m. Analysis of the Effect of Pollutants on Respiratory Infection Using Case-Crossover Design and Generalized Additive Models—*Long H. Ngo, BIDMC & Harvard Medical School; Dzung V. Do, University of Medicine and Pharmacy; Thuan Q. Thach, University of Hong Kong; Sumi Mehta, Health Effects Institute; Aaron J. Cohen, Health Effects Institute

11:35 a.m. Demographic and Behavioral Modifiers of Arsenic Exposure Pathways: A Bayesian Hierarchical Analysis of NHEXAS Data—*Rajib Paul, The Ohio State University; Catherine A. Calder, The Ohio State University; Peter F. Craigmile, The Ohio State University; Thomas Santner, The Ohio State University

11:50 a.m. A Correlation Analysis of Bivariate Normal Data Subject to Partial Left-Censoring— Wendy

Leith, Portland State University; Jong Kim, Portland State University; Tom Fielden, Portland State University

12:05 p.m. Floor Discussion

292 CC-257

Statistical Issues in Case-Control and Combined Study Designs—Contributed

Section on Statistics in Epidemiology, Section on Teaching Statistics in the Health Sciences

Chair(s): Sanjay Shete, The University of Texas M. D. Anderson Cancer Center

10:35 a.m. Sample-Size Calculations in Case-Control
Unmatched Studies When Controls Contain
Cases—* Xiaolei Liu, University of Cincinnati;
Marepalli B. Rao, University of Cincinnati

10:50 a.m. Weighting for Case-Control Studies with Partial Matched Controls— Ronaldo Iachan, Macro International; Aliza Fink, Macro International

11:05 a.m. A Latent Group Approach for Combining Matched and Unmatched Case-Control Studies—
 Mulugeta Gebregziabher, MUSC; Paulo Guimaraes, MUSC; Wendy Cozen, University of California, Los Angeles; David Conti, University of Southern California

11:20 a.m. Joint Modeling for Survival and Longitudinal Data Under Nested Case-Control Sampling—& Chihong Tseng, New York University; Mengling Liu, New York University

11:35 a.m. Statistical Methods for Detecting Microdeletions in Genetic Markers—& Chih-Chieh Wu, The University of Texas M. D. Anderson Cancer Center; Sanjay Shete, The University of Texas M. D. Anderson Cancer Center; Christopher I. Amos, The University of Texas M. D. Anderson Cancer Center

11:50 a.m. Estimating the Prevalence of Disease Using
Relatives of Case and Control Profanes—* Kristin
Javaras, Harvard School of Public Health; Nan
Laird, Harvard University; Brian D. Ripley,
Oxford University; James I. Hudson, Harvard
Medical School

12:05 p.m. Alleviating Ecological Bias in Generalized Linear Models with Optimal Subsample Design—* Adam N. Glynn, Harvard University; Jon Wakefield, University of Washington; Mark S. Handcock, University of Washington; Thomas Richardson, University of Washington

Survey Response Propensity and Responsive **Design—Contributed**

Section on Survey Research Methods

Chair(s): Matthias Schonlau, RAND Corporation

Evaluating Response Quality of Nonrespondents 10:35 a.m. Using the Imputation Technique—❖Cong Ye, University of Maryland; Ting Yan, University of Michigan; Mandi Yu, University of Michigan

10:50 a.m. Using Callback Models To Adjust for Nonignorable Nonresponse in Face-to-Face Surveys— Paul Biemer, RTI International/The University of North Carolina at Chapel Hill; Kevin Wang, RTI International

11:05 a.m. Assessing Bias in Estimates in a Two-Stage Design from an Early Close Out of the First Stage Data Collection: An Empirical Investigation Using NSRCG Sample Data—❖ Donsig Jang, Mathematica Policy Research, Inc.; Xiaojing Lin, Mathematica Policy Research, Inc.

11:20 a.m. Optimal Survey Design When Nonrespondents Are Subsampled for Follow-Up— Alistair J. O'Malley, Harvard Medical School; Alan M. Zaslavsky, Harvard University

11:35 a.m. Research and Responsive Design Options for Survey Data Collection at Statistics Canada— Chris Mohl, Statistics Canada; Francois Laflamme, Statistics Canada

11:50 a.m. A Dynamic Approach to Response Propensity— Kristen Olson, University of Michigan

Findings from Methodology Innovations on 12:05 p.m. Population Health Survey—❖ Urban Landreman,

Hennepin County HSPHD

Contributed Poster Presentations 10:30 a.m.-12:20 p.m.

294 CC-Exhibit Hall D Contributed Poster Presentations—Contributed

Business and Economics Statistics Section, Section on Bayesian Statistical Science, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences, Section on Quality and Productivity, Section on Risk Analysis, Section on Statistical Consulting, Section on Statistical Education, Section on Teaching Statistics in the Health Sciences, IMS, Section on Statisticians in Defense and National Security

Chair(s): Dongseok Choi, Oregon Health & Science University

Applications and case studies

CC-Salt Palace Convention Center

Assessment Meets Institutional Research-+ Julia Norton, California State University, East Bay

Bayesian statistics, hierarchical models

- Bayesian Analysis of Correlated Proportions (Matched-Pair Data) in 2 x 2 Tables with Incompletely Classified Data: Bayesian Extension of McNemar's Test to Missing Data— * Yan Lin, The University of Texas M. D. Anderson Cancer Center; Stuart R. Lipsitz, Brigham and Women's Hospital; Debajyoti Sinha, Medical University of South; Scott Regenbogen, Harvard School of Public Health; Caprice Greenberg, Brigham and Women's Hospital
- 10 A Bayesian Model for Inversion of Geophysical Seismic and Electromagnetic Data— Jinsong Chen, Lawrence Berkeley National Laboratory; Susan Hubbard, Lawrence Berkeley National Laboratory; Michael Hoversten, Chevron Energy Technology Company; Alan Hubbard, University of California, Berkeley
- 11 Probabilistic Plan Tracking and Detection for Intelligence **Analysis**—**❖** Sinjini Mitra, The University of Southern California: Paul Cohen, The University of Southern California; Aram Galstyan, The University of Southern California
- 12 Approximations to Continuous Dynamic Processes in Hierarchical Models—❖ Amanda R. Cangelosi, Utah State University; Mevin Hooten, Utah State University
- Bayesian Modeling of Ecosystems in the Permian Mass 13 Extinction— Michael Karcher, Swarthmore College; Steve Wang, Swarthmore College; Peter Roopnarine, California Academy of Sciences; Kenneth D. Angielczyk, California Academy of Sciences
- 14 A Bayesian Nonparametric Multivariate Model for Evaluation of Correlated Diagnostic Tests— * Adam Branscum, University of Kentucky; Timothy E. Hanson, The University of Minnesota; Ian Gardner, University of California, Davis
- 15 Pilot Study on Motivating High School AP Students To Learn Conditional Probability—❖ Neale Hirsh, NSH & Associates

Clinical trials, drug discovery

- 16 **Bayesian Screening for Pharmacogenetic Effects** in Clinical Trials— Mengye Guo, University of Pennsylvania; Daniel F. Heitjan, University of Pennsylvania
- 17 Bayesian Statistical Power in Randomized Small Clinical **Trials**— * Yufeng Li, The University of Alabama at Birmingham; Shouluan Ding, The University of Alabama at Birmingham; Seng-jaw Soong, The University of Alabama at Birmingham

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Engineering and physical sciences, chemometrics

- 18 A Stochastic Gravitational Field Simulated by a Monte Carlo Method: An Alternate Explanation for the Dynamics of Neutral Dust Grains in Saturn's Rings—*Elizabeth Martinez-Gomez,
- 19 Bivariate Generalized Poisson Regression Model—❖ Felix Famoye, Central Michigan University
- The Application of Statistical Process Control to Chemical Solution Stability—& Jennifer Herberich, Pratt & Whitney Rocketdyne

Experimental design

21 Aliasing Strings for Some Nonregular Designs with Generalized Minimum Aberration— Debra Ingram, Arkansas State University; Alison L. Wiley, Arkansas State University

Incomplete data analysis, imputation methods

22 Semiparametric Maximum Likelihood for Regression Models with Missing Data— Suzanne Dubnicka, Kansas State University

Linear models, GLMs, parametric methods

- 23 Portmanteau Test of Independence for Functional Observations—* Robertas Gabrys, Utah State University; Piort Kokoszka, Utah State University
- 24 Generalized Inverse Characteristics in Linear
 Statistical Modeling—*Fang Duan, Sam Houston
 State University; Cecil Hallum, Sam Houston State
 University
- Testing for Lack of Dependence in a Functional Linear Model—*Inga Maslova, Utah State University; Piort Kokoszka, Utah State University
- A Comparison of Restricted Heteroscedastic Estimators for Small Samples (n<50)—*Luis Frank, Universidad de Buenos Aires

Pattern recognition, computer vision, shape analysis, signal processing

Semiparametric and nonparametric methods

- Testing Equality of Mean Functions for Continuous Time Stochastic Processes— * Yolanda Munoz, University of Texas at Houston
- 29 Analysis of Within-Individual Areas Under the Curve Weighted by an Individual Variance—* Jeff Thostenson, University of Arkansas for Medical Sciences; Reid Landes, University of Arkansas for Medical Sciences

Spatial statistics, spatio-temporal modeling

- 30 Spatio-Temporal Modeling Using Stochastic Differential Equations—

 Gavino Puggioni, Duke University
- Spatial Statistics for Entrepreneurial Opportunities—*Jerry Platt, University of Redlands

Statistical consulting

32 A Bayesian Model and Expansion for Predicting
Undergraduate and Graduate Institutional Re-Enrollment
Rates and Totals—*Lindsay Renfro, Baylor University;
Mark Hamner, Texas Woman's University

Statistical education, teaching, and training

- 33 Uses of Packages in R and S-PLUS—❖ Stephen Kaluzny, Insightful Corporation
- 34 Manipulatives To Improve Learning DOE Concepts—\$James Alloway, EMSQ Associates
- The Progress of Master of Applied Statistics Program at Penn State— Mosuk Chow, The Pennsylvania State University
- 36 Passing On the Passion: Recruiting Students of Statistics—* Reid Landes, University of Arkansas for Medical Sciences
- 37 WeBWorK in the Statistics Curriculum—* Jeff Holt, University of Virginia
- 38 Classroom Response Systems and the Development of Students' Conceptual Understanding: The Value of Question Ambiguity—*Robert Terry, University of Oklahoma; Teri J. Murphy, University of Oklahoma; Curtis C. McKnight, University of Oklahoma; Michael Richman, University of Oklahoma
- 39 Comparing Two Proportions with the Binomial Distribution—* James B. Orris, Butler University
- 40 Expectations for Statistical Literacy: A Survey of College Faculty— S. David Kriska, Restat Systems; Mark C. Fulcomer, Richard Stockton College of New Jersey; Marcia M. Sass, University of Medicine and Dentistry of New Jersey
- 41 Integrating Video Clips into an Introductory Statistics
 Course— & Edward Mansfield, The University of
 Alabama; Subhabrata Chakraborti, The University of
 Alabama
- 42 Classroom Simulation: Distributions of Sales and Queue Lengths at a Fast-Food Counter— & Eric Suess, California State University, East Bay; Bruce Trumbo, California State University, East Bay; David Ahlberg, California State University, East Bay
- 43 Using JMP Scripts in Teaching Introductory Statistics—
 Amy Froelich, Iowa State University; William M.
 Duckworth, Creighton University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

- The International Statistical Literacy Project (ISLP) of the International Association for Statistics Education (IASE):

 How To Use It for Teaching and Learning—*Juana Sanchez, University of California, Los Angeles
- 45 Applying Some Computational Simplifications for Binomial and Poisson Random Variables to the Teaching of Statistical Concepts—* Mark C. Fulcomer, Richard Stockton College of New Jersey; S. David Kriska, Restat Systems; Maritza Jauregui, The Richard Stockton College of New Jersey; Marcia M. Sass, University of Medicine and Dentistry of New Jersey; Jallah M. Kennedy, University of Medicine and Dentistry of New Jersey
- 46 A Free Software Live DVD for Statistics—*Panayotis Giannakouros, University of Missouri-Kansas City; Lihua Chen, The University of Toledo

Time series/wavelet analysis

- 47 A New Type of Portmanteau Test Based on the Discrete Cosine Transform— Sungun Oh, Sookmyung Women's University; Hyemin Cho, Sookmyung Women's University; In-Kwon Yeo, Sookmyung Women's University
- 48 Prediction Interval Estimation in Transformed ARMA
 Models—& Hyemin Cho, Sookmyung Women's
 University; Sungun Oh, Sookmyung Women's University;
 In-Kwon Yeo, Sookmyung Women's University

Speaker with Lunch 12:30 p.m.-1:50 p.m.

295 CC-Ballroom D

Business and Economics Statistics Section Speaker with Lunch (fee event)—Speaker with Lunch

Business and Economics Statistics Section

Organizer(s): Badi H. Baltagi, Syracuse University

TL09 The Use of Birth Panel Data in Economic Research—

* Jason Abrevaya, Purdue University

Roundtables with Lunch 12:30 p.m.-1:50 p.m.

296 CC-Ballroom A Biopharmaceutical Section Roundtables with Lunch (fee event)

Biopharmaceutical Section

Organizer(s): Kaylan Ghosh, Vislation

- TL10 Joining the Evil Empire: What It's Like To Move from Academics to Industry—& Robert Parker, Amgen Inc.
- TL11 Statistical Analysis Plans: How, When, Why, and for Whom Do We Do Them?— Bruce Binkowitz, Merck & Co., Inc.
- TL12 JAMA Policy on Independent Analysis and Public
 Trust— * Hong Liu-Seifert, Eli Lilly and Company
- TL13 Blinded Sample Size Re-estimation—* Biao Xing, Genentech, Inc.
- TL14 Estimation of Treatment Effects in Randomized Trials with Noncompliance and Crossover: Why ITT Analysis May Not Be Our Best Option—* Afisi S. Ismaila, McMaster University; Stephen Walter, McMaster University

297 CC-Ballroom A Section on Bayesian Statistical Science Roundtable with Lunch (fee event)

Section on Bayesian Statistical Science

Organizer(s): David van Dyk, University of California, Irvine

TL15 Meta-Analysis of Diagnostic Tests— * Vanja Dukic, The University of Chicago

298 CC-Ballroom A Section on Government Statistics Roundtables with Lunch (fee event)

Section on Government Statistics

Organizer(s): Michael Davern, The University of Minnesota

- TL16 Data User Issues with the American Community
 Survey— Patricia Becker, APB Associates/APDU/
 SEMCC
- TL17 Remote Access to Missiphita— Lilia Lane, NORC at the University Allaheago

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

299 CC-Ballroom A

Section on Health Policy Statistics Roundtables with Lunch (fee event)

Section on Health Policy Statistics

Organizer(s): Anirban Basu, The University of Chicago

- TL18 Recent Methodological Developments on Prediction of Health-Care Costs— & Xiao-Hua (Andrew) Zhou, University of Washington
- TL19 Statistical Methods for Measuring Workflow and Workload in Medical Care Systems—* Jimmy Efird, John A. Burns School of Medicine

300 CC-Ballroom A

Section on Physical and Engineering Sciences Roundtables with Lunch (fee event)

Section on Physical and Engineering Sciences

Organizer(s): Randall Tobias, SAS Institute Inc.

- TL20 Challenges in Mixture Experiments—& Greg Piepel, Battelle/PNNL
- TL21 Drug Discovery and Cheminformatics: Advances, Challenges, and Frontiers—Raymond L.H. Lam, Centocor, Inc.; *Jacqueline M. Hughes-Oliver, North Carolina State University

301 CC-Ballroom C

Section on Quality and Productivity Roundtables with Lunch (fee event)

Section on Quality and Productivity

Organizer(s): James Williams, GE Global Research

- TL22 Tools for Planning and Properly Sizing a Factorial DOE— Shari Kraber. Stat-Ease, Inc.
- TL23 Teaching Experimental Design to Students Planning an Industrial Career—*John Lawson, Brigham Young University

302 CC-Ballroom C Section on Statistical Consulting Roundtables with Lunch (fee event)

Section on Statistical Consulting

Organizer(s): James Grady, The University of Texas Medical Branch

- TL24 Alternative Models for Consulting Services in Academic Medical Centers— Shelley Hurwitz, Harvard Medical School
- TL25 Statistical Consulting in Medical Devices: Opportunities and Challenges—& Jianxiong Chu, U.S. Food and Drug Administration

303

CC-Ballroom C

Section on Statistical Education Roundtables with Lunch (fee event)

Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

- TL26 My Favorite Case Study—*Laura Chihara, Carleton College
- TL27 Group Work and How To Assess It— *William Harkness, The Pennsylvania State University
- TL28 What Is So Great About Service Learning (SL), and How Much Work Is It?—* Amy Phelps, Duquesne University

304 CC-Ballroom C Section on Statistics in Epidemiology Roundtable with Lunch (fee event)

Section on Statistics in Epidemiology

Organizer(s): William E. Barlow, Cancer Research and Biostatistics

TL29 Managing the Biostatistics Consulting Service in an Academic Hospital—*Dianne M. Finkelstein, Harvard/MGH

305 CC-Ballroom C Social Statistics Section Roundtable with Lunch (fee event)

Social Statistics Section

Organizer(s): Jana Asher, Carnegie Mellon University

TL30 From Soft to Hard Science: Will Survey Research Make the Transition?— Robert Fay, U.S. Census Bureau

Special Presentation 2:00 p.m.-3:50 p.m.

306 CC-255 B

ASA College Stat Bowl II—Other

ASA, IMS, ENAR, WNAR, SSC

Organizer(s): Stephanie Cano, University of Texas at San Antonio; Michael T. Anderson, University of Texas at San Antonio

Chair(s): Michael T. Anderson, University of Texas at San Antonio

Round 2— Winners from Session 1

Functional Data Analysis—Invited

IMS, Biometrics Section, Section on Nonparametric Statistics Organizer(s): Bernard W. Silverman, St. Peter's College Chair(s): Bernard W. Silverman, St. Peter's College

A Smoothing Spline ANOVA Approach to Fit 2:05 p.m. Functional Linear Models—* Yuedong Wang, University of California, Santa Barbara

Interpretable Functional Generalized Linear 2:35 p.m. **Models**—**♦** Gareth James, University of Southern California; Peter Radchenko, University of Southern California

3:05 p.m. **Iterative Functional Principal Component Analysis** for Correlation Reduction— Fang Yao, University of Toronto; C. M. Lee, Colorado State University

Floor Discussion 3:35 p.m.

CC-259 308

Bayesian Model Selection—Invited

IMS, Section on Bayesian Statistical Science Organizer(s): Edward I. George, University of Pennsylvania Chair(s): Edward I. George, University of Pennsylvania

2:05 p.m. Bayesian Model Selection and Levy Random Field Priors— Merlise A. Clyde, Duke University

2:35 p.m. **Fully Nonparametric Bayesian Ensemble Modeling**—**❖** Robert McCulloch, The University of Chicago Graduate School of Business; Edward I. George, University of Pennsylvania; Hugh Chipman, Acadia University

3:05 p.m. Multiple Shrinkage Predictive Densities for Linear Regression Models— *Xinyi Xu, The Ohio State University; Edward I. George, University of Pennsylvania

3:35 p.m. Floor Discussion 309 CC-355 A

• • Technometrics Invited Session: Topics in Information Technology—Invited

Technometrics, Section on Statisticians in Defense and National Security, Section on Quality and Productivity

Organizer(s): Randy R. Sitter, Simon Fraser University Chair(s): Randy R. Sitter, Simon Fraser University

CC-Salt Palace Convention Center

Embracing Statistical Challenges in the Information 2:05 p.m. **Technology Age**—❖ Bin Yu, University of California, Berkeley

2:35 p.m. Statistical Principles in Image Modeling— * Ying Nian Wu, University of California, Los Angeles; Jinhui Li, University of California, Los Angeles; Ziqiang Liu, University of California, Los Angeles; Song-Chun Zhu, University of California, Los Angeles

3:05 p.m. A Statistical View of the Transient Signals That Support a Wireless Call—*Diane Lambert, Google; David A. James, Novartis Pharmaceuticals; Chuanhai Liu, Purdue University; A. Buvaneswari, Alcatel-Lucent; John M. Graybeal, Alcatel-Lucent; W. Michael MacDonald, Alcatel-Lucent

Floor Discussion 3:35 p.m.

310 CC-355 D

• A Sensible Way To Design a Longitudinal Study—Invited

WNAR, Section on Statistical Consulting, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, Section on Survey Research Methods, ENAR

Organizer(s): Martijn P.F. Berger, University of Maastricht Chair(s): Mirjam Moerbeek, Utrecht University

2:05 p.m. Sample Size Determination for Hierarchical **Longitudinal Designs with Differential Attrition** Rates—Anindya Roy, University of Maryland, Baltimore County; *Dulal K. Bhaumik, University of Illinois at Chicago; Subhash Aryal, University of Illinois at Chicago; Robert D. Gibbons, University of Illinois at Chicago

A Response Adaptive Repeated Measurement Design 2:30 p.m. for Clinical Trials—

Kimmie C. Carriere, University of Alberta; Yuanyuan Liang, University of Alberta

2:55 p.m. Optimal Designs for Linear Mixed Effects Models— Martijn P. F. Berger, University of Maastricht

3:20 p.m. Disc: Geert Molenberghs, Hasselt University

3:40 p.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

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311 CC-355 B Modeling Time-Varying Exposures in

Epidemiology—Invited

Section on Statistics in Epidemiology, Section on Health Policy Statistics, Section on Teaching Statistics in the Health Sciences

Organizer(s): David B. Dunson, National Institute of Environmental Health Sciences

Chair(s): David B. Dunson, National Institute of Environmental Health Sciences

2:05 p.m. Semiparametric Bayesian Latent Trajectory Models—❖ Amy H. Herring, The University of North Carolina at Chapel Hill; David B. Dunson,

2:35 p.m. **Bayesian Semiparametric Clustering of Functional Predictors**— * Jamie Bigelow, Duke University

Modeling Time-Varying Exposures in 3:05 p.m.

Epidemiology— Francesca Dominici, The Johns

National Institute of Environmental Health Sciences

Hopkins University

Floor Discussion 3:35 p.m.

CC-155 C 312

Scagnostics—Invited

Section on Statistical Graphics

Organizer(s): Leland Wilkinson, SPSS Inc.

Chair(s): Paul Tukey, Telcordia Labs

Scagnostics in R— * Hadley Wickham, Iowa 2:05 p.m.

State University; Duncan Temple Lang,

University of California, Davis

2:35 p.m. Scagnostic-Driven Autovisualization— Graham

Wills, SPSS Inc.

3:05 p.m. Scagnostics for Projection Pursuit— Heike

> Hofmann, Iowa State University; Dianne Cook, Iowa State University; Hadley Wickham, Iowa

State University

Floor Discussion 3:35 p.m.

313 CC-155 B

Bayesian Bioinformatics—Invited

Section on Bayesian Statistical Science, ENAR, Biometrics Section Organizer(s): Marina Vannucci, Texas A&M University Chair(s): Jeffrey S. Morris, The University of Texas M. D. Anderson Cancer Center

Simultaneous Inference for Multiple Testing 2:05 p.m.

and Clustering via a Dirichlet Process Mixture Model—❖ David B. Dahl, Texas A&M University; Qianxing Mo, Texas A&M University; Marina

Vannucci, Texas A&M University

2:30 p.m. A Bayesian Branching Process Model for Loss of

> Cell Cycle Synchrony— & Edwin Iversen, Duke University; David Orlando, Duke University; Allister Bernard, Duke University; Alexander

Hartemink, Duke University

2:55 p.m. Better Stochastic Mapping and Effective Tests for

> Evolutionary Innovation— Marc A. Suchard, University of California, Los Angeles; Vladimir N. Minin, University of California, Los Angeles

3:20 p.m. Associating High-Dimensional Response and

> **Covariate Data**—**❖** Mahlet G. Tadesse, University of Pennsylvania; Stefano Monni, University of

Pennsylvania

3:45 p.m. Floor Discussion

CC-254 C 314

Issues in Modeling Product Choices in Marketing—Invited

Section on Statistics and Marketing

Organizer(s): Peter Boatwright, Carnegie Mellon University

Chair(s): Samuel Koslowsky, Harte Hanks Analytics

2:05 p.m. Market Share Constraints and the Loss Function

> in Choice-Based Conjoint Analysis— Timothy Gilbride, University of Notre Dame; Peter Lenk, The University of Michigan; Jeff Brazell, The

Modellers, LLC

2:35 p.m. Unobserved Change in Conjoint Analysis—

> Thomas Otter, The Ohio State University; Sylvia Fruehwirth-Schnatter, Johannes Kepler Universitaet Linz; Regina Tuechler, Vienna University of

Economics and Business Administration

3:05 p.m. **Deconstructing Each Item's Category**

> **Contribution**— Sharad Borle, Rice University; Peter Boatwright, Carnegie Mellon University; Kirthi Kalyanam, Santa Clara University

Floor Discussion 3:35 p.m.

315 CC-257

Investing in Our Youth as Future Users of Statistics and Future Respondents—Invited

Section on Government Statistics, Section on Statistical Education

Organizer(s): Robert Lussier, Statistics Canada

Chair(s): Robert Lussier, Statistics Canada

2:05 p.m. Statistics Canada's Education Outreach Program:

> Fostering a Data and Knowledge Culture in Canadian Youth—❖ Mary Townsend, Statistics

Canada

GA-The Grand America Hotel

Themed Session Applied Session Presenter CC-Salt Palace Convention Center How to Make the Census Exciting for Educators Challenges Related to Reliability and Statistics 2:30 p.m. 2:40 p.m. and K-12 Students— *Kimberly Crews, U.S. in Nano Electronics—Way Kuo, University of

Census Bureau Tennessee; * Tao Yuan, University of Tennessee 2:55 p.m. Web Services as an Aid in Promoting Statistical 3:15 p.m. Disc: David Banks, Duke University Knowledge Within Educational Institutions—

3:35 p.m. Floor Discussion Reija Helenius, Statistics Finland

3:20 p.m. Disc: Cynthia Clark, Office for National Statistics

3:40 p.m. Floor Discussion

316 CC-260

Causal Inference in Education Research—Invited

Social Statistics Section, Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Elizabeth A. Stuart, Johns Hopkins Bloomberg School of Public Health

Chair(s): Elizabeth A. Stuart, Johns Hopkins Bloomberg School of Public Health

2:05 p.m. Random Assignment Designs, Issues of Implementation, and Analytic Challenges Faced in **Education Settings**—**♦** David Myers, American Institutes for Research

2:30 p.m. Causal Inference and Accountability in NYC Public **Schools**— * Jennifer Hill, Columbia University

Regression Discontinuity Analyses of the Effects 2:55 p.m. of NCLB Accountability Provisions on Student Achievement—* John R. Lockwood, RAND Corporation; Brian P. Gill, RAND Corporation; Messan C. Setodji, RAND Corporation; Francisco Martorell, RAND Corporation

3:20 p.m. Disc: Audrey Pendleton, U.S. Department of Education

Floor Discussion

3:40 p.m.

317

CC-255 F

Statistical Methods in Nanotechnology— Invited

Section on Physical and Engineering Sciences, Section on Quality and Productivity Organizer(s): Chien-Fu Jeff Wu, Georgia Institute of Technology Chair(s): Robert W. Mee, University of Tennessee

2:05 p.m. **Experimental Design and Analysis for Robust** Synthesis of Nanostructures— & Chien-Fu Jeff Wu, Georgia Institute of Technology; Tirthankar Dasgupta, Georgia Institute of Technology: Roshan Vengazhiyil, Georgia Institute of Technology; Zhong Lin Wang, Georgia Institute of Technology; Christopher Ma, Georgia Institute of Technology

318 CC-155 A

Anomaly Detection Methods for Multivariate, Distributed, and Stratified Data in Biosurveillance —Invited

Section on Statisticians in Defense and National Security, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Section on Risk Analysis, Section on Physical and Engineering Sciences

Organizer(s): Howard S. Burkom, The Johns Hopkins University Chair(s): Howard S. Burkom, The Johns Hopkins University

2:05 p.m. A Multivariate Bayesian Method for Spatial Biosurveillance— Daniel B. Neill, Carnegie Mellon University; Andrew W. Moore, Carnegie Mellon University; Gregory F. Cooper, University of Pittsburgh

2:30 p.m. Multivariate Health Surveillance Using a Network

of Bayesian Data Fusion Models—*Zaruhi R. Mnatsakanyan, The Johns Hopkins University; Howard S. Burkom, The Johns Hopkins University

2:55 p.m. **Epidemiological Network Models for Disease** Outbreak Detection— & Ben Y. Reis, Harvard

Medical School

3:20 p.m. KFC: Anomaly Detection in Multivariate Cross-

Classified Datastreams— Colin Goodall, AT&T

Labs - Research

3:45 p.m. Floor Discussion

Invited Panels 2:00 p.m.-3:50 p.m.

319 CC-251 E

Integrating Innovative Technology Resources into Introductory Courses—Invited

Section on Statistical Education

Organizer(s): Kim Robinson Gilbert, Georgia Gwinnett College Chair(s): Robert Gould, University of California, Los Angeles

Panelists: Jacqueline Miller, The Ohio State University

- * Kim Robinson Gilbert, Georgia Gwinnett College
- Nicholas Horton, Smith College

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

 Ginger Holmes Rowell, Middle Tennessee State University

 Roxy Peck, California Polytechnic State University

3:45 p.m. Floor Discussion

Topic-Contributed Sessions 2:00 p.m.-3:50 p.m.

320 CC-254 B

Real-Time Analysis of Revised Macroeconomic Data—Topic-Contributed

Business and Economics Statistics Section

Organizer(s): Peter Zadrozny, Bureau of Labor Statistics

Chair(s): William R. Bell, U.S. Census Bureau

Real-Time Filtered Estimates of Final Superlative 2:05 p.m. CPI Based on an Estimated Monthly VAR Model of Initial and Final Superlative CPI— Peter

Zadrozny, Bureau of Labor Statistics

2:25 p.m. Real-Time Estimation of Revised GDP Based on an Estimated Model of Initial and Revised GDP— Baoline Chen, Bureau of Economic Analysis; Peter Zadrozny, Bureau of Labor Statistics

2:45 p.m. VAR Estimation and Forecasting When Data Are Subject to Revision—❖ Evan Koenig, Federal Reserve Bank of Dallas; N. Kundan Kishor,

Texas Tech University

Modeling Data Revisions: Measurement Error 3:05 p.m. and Dynamics of 'True' Values—* Jan Jacobs, University of Groningen; Simon van Norden,

HEC Montreal

A State Space Approach to the Policymaker's 3:25 p.m. Data Uncertainty Problem—❖ Jana Eklund, Bank of England; Alastair Cunningham, Bank of England; George Kapetanios, Bank of England/

Queen Mary, University of London; Chris Jeffery, Bank of England; Vincent Labhard, European Central Bank

Floor Discussion 3:45 p.m.

321 CC-255 E

The Role of Statistics in Ecological and Climate Modeling—Topic-Contributed

Section on Statistics and the Environment, ENAR, International Indian

Statistical Assoc, Reps. For Young Statisticians

Organizer(s): Montserrat Fuentes, North Carolina State University Chair(s): Bo Li, National Center for Atmospheric Research

Getting What We Need from Wireless Sensor 2:05 p.m.

Networks: A Role for Inferential Ecosystem Models— *James Clark, Duke University; Pankaj Agarwal, Duke University; David Bell, Duke University; Carla Ellis, Duke University; Paul Flikkema, Northern Arizona University; Alan E. Gelfand, Duke University; Gabriel Katul, Duke University; Kamesh Munagala, Duke University; Gavino Puggioni, Duke University; Adam Silberstein, Duke University; Jun

Yang, Duke University

The Uncertain Hockey Stick: A Statistical 2:25 p.m. Perspective on the Reconstruction of Past

Temperatures—❖ Douglas Nychka, National

Center for Atmospheric Research

2:45 p.m. Modeling Extremes in Regional Climate Model Simulations— Daniel Cooley, Colorado State

University; Stephan Sain, National Center for

Atmospheric Research

3:05 p.m. Functional ANOVA Modeling of Regional Climate

> Model Experiments— Cari Kaufman, Statistical and Applied Mathematical Sciences Institute/ North Carolina State University; Stephan Sain, National Center for Atmospheric Research

3:25 p.m. Spatio-Temporal Processing of MISR's Aerosol

> Optical Depth Data— * Tao Shi, The Ohio State University; Noel Cressie, The Ohio State University

Floor Discussion 3:45 p.m.

322 CC-250 EF

◆ ◆ Advanced Quantitative Brain MRI—Topic-Contributed

Biometrics Section

Organizer(s): Daniel Rowe, Medical College of Wisconsin Chair(s): Daniel Rowe, Medical College of Wisconsin

2:05 p.m. The Acquisition and Statistical Analysis of High Temporal Resolution 3D fMRI Data—❖ Martin

Lindquist, Columbia University

Semiparametric Detection of Significant Activation 2:25 p.m.

> for Brain fMRI— & Chunming Zhang, University of Wisconsin-Madison; Tao Yu, University of

Wisconsin-Madison

Brain Asymmetry Analysis via Weighted Spherical 2:45 p.m.

Harmonic Representation—❖ Moo K. Chung,

University of Wisconsin-Madison

General Program Schedule GA-The Grand America Hotel Applied Session Presenter CC-Salt Palace Convention Center Themed Session

3:05 p.m. Estimation of Pre-Post Surgical Changes in the fMRI Visual Field Map— Raymond Hoffmann, Medical College of Wisconsin; Edgar A. DeYoe, The Medical College of Wisconsin; Mary Jo Maciejewski, Marquette University; Daniel Rowe, Medical College of Wisconsin Statistical Analysis of Diffusion Tensors in 3:25 p.m. Diffusion-Weighted Magnetic Resonance Image Data— Hongtu Zhu, The University of North Carolina at Chapel Hill; Heping Zhang, Yale University; Joseph G. Ibrahim, The University of North Carolina at Chapel Hill; Bradley G. Peterson, Columbia University Floor Discussion

323 CC-355 F

Challenges in Medical Device Trials: Novel Approaches to Design and Analysis—Topic-Contributed

Biopharmaceutical Section, Biometrics Section, ENAR Organizer(s): Greg Campbell, U.S. Food and Drug Administration Chair(s): Gosford Sawyerr, Purdue Pharma, LP

2:05 p.m. Experimental Design for Assessing the Effect of **Bone Density on Mechanical Properties After** Vertebroplasty— Chul Ahn, U.S. Food and **Drug Administration**

2:25 p.m. On the Use of Fisher's Exact Test When Randomization Is Sitewise— Shanti Gomatam. U.S. Food and Drug Administration

Control of Type I Error and the Correlation of 2:45 p.m. Multiple Endpoints in a Medical Device Trial— Kevin Najarian, Boston Scientific Corporation; Carola Alfaro, Boston Scientific Corporation

3:05 p.m. A Comparison of Statistical Approaches for Long-Term MACE Rate in a Medical Device Trial—❖ Jian Huang, Boston Scientific Corporation; Lan Pan, Boston Scientific Corporation

The SYNTAX Score: Development of a Predictive 3:25 p.m. Scoring Algorithm To Determine Treatment Assignment in Complex Coronary Patients—& Eric Bass, Boston Scientific Corporation; Peggy Pereda, Boston Scientific Corporation

3:45 p.m. Floor Discussion

3:45 p.m.

324 CC-251 F

Statistical Issues in HIV/AIDS Research—Topic-Contributed

ENAR, Biometrics Section, Biopharmaceutical Section, Section on Health Policy Statistics, Section on Statistics in Epidemiology

Organizer(s): Felicia Hardnett, Centers for Disease Control and Prevention Chair(s): Ramses Sadek, Centers for Disease Control and Prevention

2:05 p.m. Estimates of Intraclass Correlation from the Community Intervention Trial for Youth (CITY): An HIV Prevention Intervention for Young Men Who Have Sex with Men—❖ Sherri L. Pals, Centers for Disease Control and Prevention: Lillian S. Lin. Centers for Disease Control and Prevention: Carolyn Guenther-Grey, Centers for Disease Control and Prevention; Johnson Wayne, Centers for Disease Control and Prevention

2:25 p.m. Effect of Multiple Imputation on the HIV Prevalence Estimate and Analysis of Risk Factors for HIV Infection: Guyana 2004— Maxine Denniston, Centers for Disease Control and Prevention: Nicole Seguy, Centers for Disease Control and Prevention

2:45 p.m. On the Bias of Case Counts Adjusted for Reporting **Delay**— Ruiguang Song, Centers for Disease Control and Prevention

3:05 p.m. A Comparison of Various Analytical Methods for U-Shape Distributed Random Variables: A Real-World Application from a Behavioral Intervention **Trial**—**❖** Terry Wang, Centers for Disease Control and Prevention; Torrance T. Stephens, Morehouse School of Medicine; Lillian S. Lin, Centers for Disease Control and Prevention

3:25 p.m. Disc: Ryan Wiegand, Centers for Disease Control and Prevention

3:45 p.m. Floor Discussion

CC-250 A 325

Statistical Methods for Studying Gene Expression and Transcriptional Regulation—Topic-Contributed

IMS, ENAR, Section on Physical and Engineering Sciences Organizer(s): Jun Xie, Purdue University Chair(s): Ping Ma, University of Illinois

Clustering Time Course Gene Expression Data 2:05 p.m. Using Nonparametric Hypothesis Testing— *Haiyan Wang, Kansas State University; James Neill, Kansas State University; Forrest Miller, Kansas State University

	☼ Themed Session ♠ Applied Session ♦ Presenter	CC-Salt Palace Convention Center GA-The Grand America Hotel		
2:25 p.m.	Studying the Relationship Between Coexpression and Coregulation of Protein Complex Using ChIP-Chip Data—& Ching-Ti Liu, Yale University; Ker-Chau Li, University of California, Los Angeles	University of Florida; Bhramar Mukherjee, University of Michigan; Li Zhang, The Cleveland Clinic; Malay Ghosh, University of Florida		
2:45 p.m.	Protein Multiple Alignment Using Primary and Secondary Structure Information— Nak-Kyeong	3:45 p.m. Floor Discussion 327 CC-155 D		
	Kim, National Institutes of Health; Jun Xie, Purdue University	● Nonparametric and Robust Methods for		
3:05 p.m.	Detection of eQTL Modules Mediated by Activity Levels of Transcription Factors—& Wei Sun, University of California, Los Angeles; Ker- Chau Li, University of California, Los Angeles;	Genetic Data Analysis—Topic-Contributed Section on Nonparametric Statistics, WNAR		
		Organizer(s): Gang Zheng, National Heart, Lung, and Blood Institute Chair(s): Gang Zheng, National Heart, Lung, and Blood Institute		
	Tianwei Yu, Emory University	2:05 p.m. Empirical Likelihood-Based Inferences in a		
3:25 p.m.	Variable Selection Using Single Index Models for Motif Discovery— Wenxuan Zhong, Harvard	Complex Genetic Mixture Model—& Jing Qin, National Institutes of Health		
3:45 p.m.	University Floor Discussion	2:25 p.m. A Method Toward Mapping of Common Traits— Shaw-Hwa Lo, Columbia University; Tian Zheng, Columbia University		
326	CC-254 A ications of Bayesian Inference in Wildlife	2:45 p.m. Two-Stage Tests for Association on the X Chromosome—*Jungnam Joo, National Heart,		
Ecology-	-Topic-Contributed	Lung, and Blood Institute 3:05 p.m. Genetic Model Selection in Two-Stage Analysis for		
the Environm		Case-Control Association Studies—& Hon Keung (Tony) Ng, Southern Methodist University; Gang		
<i>Organizer(s)</i> : 2:05 p.m.	Robert Dorazio, U.S. Geological Survey/University of Florida A Hierarchical Bayesian Model for Stochastic	Zheng, National Heart, Lung, and Blood Institute		
2.05 μ.π.	Metapopulation Viability in the Presence of Translocation— Christopher K. Wikle, University of Missouri-Columbia; Sammuel F. Bussman, University of Missouri-Columbia; Robert L. Schooley, University of Illinois	3:25 p.m. A New Hypothesis-Testing Approach When the Nuisance Parameter Is Only Present Under the Alternative Hypothesis—* Olivier Thas, Ghent University; Gang Zheng, National Heart, Lung, and Blood Institute		
2:25 p.m.	Discrete Representations of Ecological Process Models in the Presence of Uncertainty and	3:45 p.m. Floor Discussion		
	Data— Mevin Hooten, Utah State University;	328 CC-251 A Statistical Methods for Graphs and Networks—		
2:45 p.m.	Amanda R. Cangelosi, Utah State University Continuous-Time Modeling of Marine Mammal	Topic-Contributed		
•	Telemetry Data— Devin Johnson, National Marine Mammal Laboratory; John Durbin, National Marine Mammal Laboratory;	Section on Statistical Computing, Section on Statistical Graphics Organizer(s): Sujay Datta, Texas A&M University		
		Chair(s): Sujay Datta, Texas A&M University		
	Mary-Anne Lea, National Marine Mammal Laboratory; Joshua London, National Marine Mammal Laboratory	2:05 p.m. Bayesian Self-Modeling Warping Regression— Donatello Telesca, University of Washington; Lurdes Inoue, University of Washington		
3:05 p.m.	Estimation of Carcass Recovery Rates for Florida Manatees Using MCMC—& Christopher	2:25 p.m. What Is a 'Random Network'?— David Hunter, The Pennsylvania State University		
	Fonnesbeck, Fish & Wildlife Research Institute; Carol Sanders-Reed,	2:45 p.m. Collective Inference for Network-Based Marketing—		
3:25 p.m.	Modeling Unobserved Sources of Heterogeneity			

Modeling Unobserved Sources of Heterogeneity in Animal Abundance Using a Dirichlet Process Prior—* Robert Dorazio, U.S. Geological Survey/

3:25 p.m.

GA-The Grand America Hotel Applied Session CC-Salt Palace Convention Center Themed Session Presenter Transitivity in Weighted Graphs: Effects on the 3:05 p.m. *Keith Rust, Westat; Inho Park, Westat; Topology of Knowledge and Social Networks— Marianne Winglee, Westat; Gary Shapiro, Tiago Simas, Indiana University; Bharat Dravid, Westat Indiana University; Luis Rocha, Indiana University 2:25 p.m. A Strategy for Estimating the Number of Minority-3:25 p.m. Floor Discussion Operated Farms— Matthew J. Fetter, USDA National Agricultural Statistics Service; Phillip S. Kott, USDA National Agricultural Statistics 329 CC-355 C Service Studies with Multiple Biomarkers —Topic-2:45 p.m. **Linearization Variance Estimators for Dual Frame** Contributed Survey Data— Abdellatif Demnati, Statistics Section on Statistics in Epidemiology, Biometrics Section, ENAR Canada; J. N. K. Rao, Carleton University; Mike Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug A. Hidiroglou, Statistics Canada; Jean-Louis Administration; Ursula Garczarek, Roche Diagnostics GmbH Tambay, Statistics Canada Chair(s): Kyunghee Song, U.S. Food and Drug Administration 3:05 p.m. Designing a Dual-Frame Survey for Breeding Bald 2:05 p.m. Diagnostic and Analytical Accuracies of Qualitative Eagle Pairs in the Lower 48 States—❖ Mark C. Multiplex Tests—❖ Marina Kondratovich, U.S. Otto, U.S. Fish & Wildlife Service; John R. Sauer, Food and Drug Administration U.S. Geological Survey 2:25 p.m. Interpretation of Multimarker Scores— Ursula 3:25 p.m. Disc: Michael Bankier, Statistics Canada Garczarek, Roche Diagnostics GmbH 3:45 p.m. Floor Discussion 2:45 p.m. Multivariate Assays Reporting a Composite Score— Estelle Russek-Cohen, U.S. Food and CC-251 D 331 Drug Administration; Mary Pastel, U.S. Food and Drug Administration; Zivana Tezek, U.S. Joint Analysis of Longitudinal and Survival Food and Drug Administration Data—Topic-Contributed **Principal Component Analysis for Data Reduction** WNAR, Biometrics Section, ENAR, Section on Risk Analysis, Section on 3:05 p.m. Statistics in Epidemiology of Gait Analysis for Knee Prosthesis Research— Organizer(s): Gang Li, University of California, Los Angeles ♦ Jeffrey Murphy, DePuy Orthopaedics; Luke Aram, DePuy Orthopaedics; Jordan Lee, Chair(s): Gang Li, University of California, Los Angeles DePuy Orthopaedics; Travis Bennett, DePuy 2:05 p.m. Joint Modeling of Recurrent Event and Event Orthopaedics; Catherine Truxillo, SAS Institute Marker—❖ Jianwen Cai, The University of North Inc.; Paul Rullkoetter, University of Denver Carolina at Chapel Hill; Donglin Zeng, The 3:25 p.m. **Utilizing Multiple Biomarkers To Assess** University of North Carolina at Chapel Hill Myocardial Function in a Dose-Finding Study: 2:25 p.m. Robust Inference for Joint Modeling of Longitudinal Determining the Optimal Dose by 'Scoring' the Measurements and Competing Risks Failure Time Outcomes— Cynthia L. Green, Duke Clinical Data—❖ Ning Li, University of California, Los Research Institute; Kathleen Trollinger, Duke Angeles; Gang Li, University of California, Clinical Research Institute; Saling Huang, KAI Los Angeles; Robert Elashoff, University of Pharmaceuticals; Matthew Roe, Duke Clinical California, Los Angeles Research Institute 2:45 p.m. Joint Analysis of Longitudinal Measurements and Floor Discussion 3:45 p.m. Competing Risks Failure Time Data: A Bayesian **Approach**—**♦** Wenhua Hu, University of California, Los Angeles; Gang Li, University of 330 CC-255 D California, Los Angeles Multiple Frame Survey Design and Inference— 3:05 p.m. Joint Analysis of Repeated State Transition in **Topic-Contributed** Activities of Daily Living and Death in Longitudinal Section on Survey Research Methods **Aging Study**—**♦** Haiqun Lin, Yale University; Organizer(s): Marianne Winglee, Westat Zhenchao Guo, Yale University; Peter Peduzzi, Chair(s): Marianne Winglee, Westat Yale University; Thomas Gill, Yale University; 2:05 p.m. A Case Study in Dual-Frame Estimation Methods—

Heather G. Allore, Yale University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

3:25 p.m. Disc: Xin Huang, University of California, Los

Angeles

3:45 p.m. Floor Discussion

Contributed Sessions 2:00 p.m.-3:50 p.m.

332 CC-155 F

Applications of Bayesian Statistical Method Contributed

Biometrics Section

Chair(s): Erning Li, Texas A&M University

2:05 p.m. Estimating the Survivor Average Causal Effect in Nonrandomized Studies Where Treatment Assignment Is Missing for Some Patients—

* Abbie Stokes-Riner, University of Rochester; Jason Roy, Geisinger Health System; Sally W.

Thurston, University of Rochester

2:20 p.m. Bayesian Modeling of Multivariate Binary
Response with a Change-Point for Applications
to Adolescent Offender Registry—* Dipankar
Bandyopadhyay, Medical University of South
Carolina; Debajyoti Sinha, Medical University of
South; Stuart R. Lipsitz, Brigham and Women's
Hospital; Elizabeth Letourneau, Medical

University of South Carolina

2:35 p.m. Bayesian Genome-Wide Screening via Pseudo Perfect Sampling for Quantitative Trait Loci Problems—& Cheongeun Oh, University of

Medicine and Dentistry of New Jersey

2:50 p.m. Ridge Regression To Accommodate LD in WGA Studies— Nathalie Malo, University of California, San Diego; Jennifer Wessel, University of California, San Diego; Nicholas J. Schork, University of California, San Diego

3:05 p.m. Small Sample Conditional Inference for the Cox Model—* Juan Zhang, Rutgers University; John

E. Kolassa, Rutgers University

3:20 p.m. A Bayesian Analysis of Spatially Correlated Binary Data with Applications in Dental Research—

*Yanwei Zhang, Michigan State University; David Todem, Michigan State University; R. V. Ramamoorthi, Michigan State University

3:35 p.m. Hierarchical Mixed Membership Models for Honey Bee Genomes— Tanzy Love, Carnegie Mellon

University

333 CC-250 D

◆ Robust Modeling Strategy—Contributed

Biometrics Section, Section on Nonparametric Statistics Chair(s): Honghua Jiang, Eli Lilly and Company

2:05 p.m. Variability Study of a Robust Estimator of Mutation Rate in Fluctuation Analysis— * Xiaowei Wu, Rice University; Erin Strome, Texas Children's Cancer Center; Sharon Plon, Texas Children's Cancer Center; Marek Kimmel, Rice University

2:20 p.m. Robust Quantile Regression with Structured Design Space— *Ying Wei, Columbia University; Matías Salibián-Barrera, The University of

British Columbia

2:35 p.m. A Rank Regression Analysis of Hormonal and Cytokine Effects on Birth Outcome— Alai Tan, The University of Texas Medical Branch; Roberta J. Ruiz, The University of Texas Medical Branch; Daniel H. Freeman, The University of

Texas Medical Branch

2:50 p.m. Sequential Confidence Limits for the Ratio of Two Binomial Proportions— Hokwon Cho, University of Nevada, Las Vegas; Z. Govindarajulu, University of Kentucky

3:05 p.m. An Index of Local Sensitivity to Nonignorability
Under Pseudo-Likelihood—*Fang Zhu,
University of Pittsburgh; Gong Tang, University
of Pittsburgh

of Pittsburgh

3:20 p.m. Fiducial Generalized Confidence Interval for Median Lethal Dose (LD50)—*Lidong E, Colorado State University; Jan Hannig, Colorado State University; Hariharan Iyer, Colorado State University

3:35 p.m. Multinomial Logistic Regression Models with a Stochastic Design Variable— & Evrim Oral, Middle East Technical University

334 CC-Ballroom B

Adaptive Designs in Drug Development— Contributed

Biopharmaceutical Section, Biometrics Section

Chair(s): Kimberly Crimin, Wyeth

2:05 p.m. Findings from Simulation Studies on Treatment
(Trt) Switching in Clinical Trial (CT)—* Dachuang
Cao, Eli Lilly and Company; Hongmei Jiang,
Northwestern University,

2:20 p.m. Adaptive Design with Continuous Responses and Binary Utility—*Yuehui Wu, GlaxoSmithKline;

Valeri V. Fedorov, GlaxoSmithKline

			General i rogiani Senedale
C	↑ Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
2:35 p.m.	Midcourse Selection of the Primary Endpoint in Clinical Trials— & Zhilong Yuan, Johnson &		Christopher S. Coffey, The University of Alabama at Birmingham
	Johnson PRD; Yang Song, Johnson & Johnson PRD; Xiaolong Luo, Johnson & Johnson PRD; George Chi, Johnson & Johnson PRD	3:20 p.m.	Estimation of Correlated Response Rates in Clinical Trials— Myron Chang, University of Florida
2:50 p.m.	On Treatment Selection in Accelerated Drug Development— *Ying Wan, Temple University; Keaven M. Anderson, Merck & Co., Inc.; Cong Chen, Merck & Co., Inc.; Boris Iglewicz, Temple University	3:35 p.m.	Test Size for Two-Stage and One-Stage Analyses of Cluster Samples of Unequal Size—* Jacqueline Johnson, The University of North Carolina at Chapel Hill; Diane Catellier, The University of North Carolina at Chapel Hill; Keith E. Muller,
3:05 p.m.	Adaptive Treatment Selection in Seamless Phase II/III Designs—*Xiaoling Wu, Bristol-Myers Squibb Company	22/	University of Florida
3:20 p.m.	Adaptive Design and Decision Analysis: Companions for Transforming Clinical Development—*Andreas Sashegyi, Eli Lilly and Company	IMS, Section	CC-250 B and Related Topics—Contributed on Nonparametric Statistics g Qiu, University of Missouri-Columbia
3:35 p.m.	Unweighted versus Weighted Adaptive Design and Its Application in COPD Clinical Trials—*Peter Zhang, Otsuka Pharmaceutical Development & Commercialization, Inc.	2:05 p.m.	Testing Homogeneity Variances for Non-Normal Models Using Entropy— Solomon W. Harrar, University of Montana; Arjun K. Gupta, Bowling Green State University; Leandro Pardo, Complutense University of Madrid
•	CC-355 E Issues for Clinical Trials—Contributed	2:20 p.m.	Bootstrapping the Grenander Estimator— *Bodhisattva Sen, University of Michigan
	Goldschneider, Insightful Corporation	2:35 p.m.	Estimation of Tail Probability via the Maximum Lq-Likelihood Method—& Davide Ferrari, The
2:05 p.m.	Correcting for Misrandomization in a Peer-Teaching Intervention Trial—* Dirk Moore, University of Medicine and Dentistry of New Jersey; Weichung	2:50 p.m.	University of Minnesota Minimax-Bias L-Estimators of Scale—* Daniela Szatmari-Voicu, University of Texas at El Paso
	J. Shih, University of Medicine and Dentistry of New Jersey; Thomas Kearney, University of Medicine and Dentistry of New Jersey	3:05 p.m.	Asymptotic Properties of MLEs for Extended Generalized Log-Logistic Families of Lifetime Distributions—* James U. Gleaton, University
2:20 p.m.	Evaluation of Surrogate Biomarker in a Randomized Clinical Trial— & Long-Long Gao,		of North Florida; M. Mahbubur Rahman, University of North Florida
2:35 p.m.	GlaxoSmithKline; Marshall Joffe, University of Pennsylvania; Xiwu Lin, GlaxoSmithKline Proportion of Treatment Effect Explained by a	3:20 p.m.	Profile Likelihood-Based Confidence Intervals in Repeated Categorical Data— & Esa I. Uusipaikka, University of Turku
	Continuous Surrogate Marker— & Jie Huang, Novartis Pharmaceuticals; Bin Huang, Cincinnati Children's Hospital Medical Center	3:35 p.m.	Maximum Likelihood Estimation of the Dispersion Parameter of Negative Multinomial Distribution— *Soumi Lahiri, GlaxoSmithKline
2:50 p.m.	Inference of Noncentrality Parameter of a Truncated Chi-Squared Distribution, with Application to Flexible Two-Stage Designs— Qizhai Li, National Institutes of Health; Kai Yu, National Institutes of Health		v double Later, Gladonial Paris
3:05 p.m.	An Internal Pilot Study with Interim Analysis for Gaussian Linear Models—* John Kairalla, The University of North Carolina at Chapel Hill; Keith E. Muller, University of Florida;		

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

337 ● Bayesia	CC-155 E an Approaches to Sample Size	2:20 p.m.	Tapered Empirical Likelihood Methods — *Daniel Nordman, Iowa State University
Determination and Experimental Design— Contributed Section on Bayesian Statistical Science		2:35 p.m.	An Empirical Likelihood-Based Approach To Estimate Covariance Matrices with Structural Zeroes—& Sanjay Chaudhuri, National
Chair(s): Rongwei (Rochelle) Fu, Oregon Health & Science University			University of Singapore
2:05 p.m.	Survey of Bayesian Sample Size Calculation— *Susan Alber, The University of Texas M. D. Anderson Cancer Center; J. Jack Lee, The	2:50 p.m. 3:05 p.m.	Conditional Empirical Likelihood Inference in Presence of Nuisance Parameters— Mi-Ok Kim, Cincinnati Children's Hospital Medical Center Strong Approximations for Resample Quantile
2:20 p.m.	University of Texas M. D. Anderson Cancer Center Bayesian Power and Sample Size Calculations for Multicenter Clinical Trials with Binary Responses— & Emine O. Bayman, The University of Iowa/Uludag University; Kathryn Chaloner,		Processes and Application to ROC Methodology— * Jiezhun Gu, North Carolina State University; Subhashis Ghoshal, North Carolina State University
2.2E n m	The University of Iowa; Mary K. Cowles, The University of Iowa	3:20 p.m.	Observed Confidence Levels for Modes of Smooth Densities— Alan Polansky, Northern Illinois University
2:35 p.m.	Bayesian Sample Size Determination for the Misclassified Binary Response Variable with One Error-Free Covariate—& Dunlei Cheng, Baylor University; James Stamey, Baylor University	3:35 p.m.	Semiparametric Sequential D-Optimal Design—* Joseph Warfield, The Johns Hopkins University; Anindya Roy, University of Maryland, Baltimore County
2:50 p.m.	Bayesian Sample Size Calculation for Counted Data with Excess Zeroes—& Chunyao Feng, Amgen Inc.; John W. Seaman, Jr., Baylor University; James Stamey, Baylor University	339 Financial	CC-250 C Risk Analysis: Theory, Methods, and
3:05 p.m.	Bayesian Up and Down: Combining the Best of Both Worlds— Assaf Oron, University of Washington; Peter D. Hoff, University of	Section on Ris	ons—Contributed sk Analysis, Business and Economics Statistics Section is Chan, Exponent, Inc.
3:20 p.m.	Washington How Many Images Are Enough? Bayesian and	2:05 p.m.	Extreme Value Theorem and Its Applications— *Yan Li, The Pennsylvania State University
	Non-Bayesian Approaches to Sample Size Determination—*Junheng Ma, Case Western Reserve University; Jiayang Sun, Case Western Reserve University; Joe Sedransk, Case Western Reserve University	2:20 p.m.	A New Estimator for the Extremal Index Based on Scaling and Resampling—& Kam Hamidieh, University of Michigan; Stilian Stoev, University of Michigan; George Michailidis, The University of Michigan
3:35 p.m.	Kullback-Leibler Divergence for Design and Model Selection—& Chenpin Wang, University of Texas Health Science Center San Antonio	2:35 p.m.	Tail Expansions for the Distribution of the Maxima of Random Walks with Negative Drift and Regularly Varying Increments—& Chenhua Zhang, University of Georgia; Philippe Barbe, CNRS,
338 • Resamn	CC-251 C bling Methods and Confidence Intervals—		France; William P. McCormick, University of Georgia
Contribut		2:50 p.m.	A General Rule To Average a Set of Frequency Statistics—*Joseph Kahan, FM Global
	hael Sherman, Texas A&M University Bootstrap Confidence Intervals in Nonparametric	3:05 p.m.	Bootstrapping the Expected Shortfall— Shuxia Sun, Wright State University
·	Regression with Built-In Bias Correction— *McMurry Timothy, DePaul University; Dimitris Politis, University of California, San Diego	3:20 p.m.	Using Data Mining Tools and GIS (Geographic Information Systems) in Hot-Spot Detection— ❖ Wei-hong Wang, The College of New Jersey; Ben Liu, William Paterson University

GA-The Grand America Hotel Presenter CC-Salt Palace Convention Center Themed Session Applied Session Estimation for Non-negative, Levy-Driven Ornstein-Centers for Disease Control and Prevention 3:35 p.m. Uhlenbeck Processes— *Yu Yang, Colorado 2:35 p.m. Post-Katrina New Orleans Adjustment to Control State University; Peter J. Brockwell, Colorado Totals for the National Immunization Survey— State University; Richard A. Davis, Colorado Steven Pedlow, NORC at the University State University of Chicago; Zhen Zhao, Centers for Disease Control and Prevention CC-251 B 2:50 p.m. Diagnostic Process to Assess the Effects of 340 Weighting BRFSS Data—Henry Roberts, Centers Clustering and Classification—Contributed for Disease Control and Prevention; Robert Section on Statistical Computing, Section on Statistical Graphics, IMS Woldman, North Carolina Department of Chair(s): James E. Gentle, George Mason University Health and Human Services; Elizabeth Hughes, Clustering the Short Stories of Edgar Allan Poe 2:05 p.m. Northup Gruman Inc; Ruth Jiles, Centers for Using Galois Lattices—❖ Roger Bilisoly, Central Disease Control and Prevention Connecticut State University 3:05 p.m. Minimizing Conditional Local Bias for Health Smoothing the Dissimilarities Among Binary 2:20 p.m. Estimates from the Behavioral Risk Factor Data for Cluster Analysis— David Hitchcock, Surveillance System for U.S. Counties Contiguous University of South Carolina; Zhimin Chen, to the United States-Mexico Border—* Joe Fred University of South Carolina Gonzalez, Jr., Centers for Disease Control and 2:35 p.m. Measuring the Similarity between Spatial Prevention; Machell Town, Centers for Disease Clusters—❖ Xinxin Bai, IBM China Research Control and Prevention; Jay H. Kim, National Laboratory; Wen Jun Yin, IBM China Research Center for Health Statistics Laboratory; Jin Dong, IBM China Research 3:20 p.m. **Evaluation of the Current Weighting Methodology** Laboratory for the Behavioral Risk Factor Surveillance System 2:50 p.m. Uniformity Testing in High Dimensions—❖ Adam (BRFSS) and Alternatives for Improvement-Petrie, Rensselaer Polytechnic Institute Mansour Fahimi, RTI International; Darryl Creel, RTI International; Paul S. Levy, RTI 3:05 p.m. Presence versus Significance: How Significant Are Your Clusters?— Rebecca Nugent, Carnegie International; Michael Link, Centers for Disease

3:35 p.m.

CC-255 C 341

Ranjan Maitra, Iowa State University

A New Clustering Algorithm Based on Self-

Sinica; Shang-Ying Shiu, Academia Sinica

Mellon University; Werner Stuetzle, University

Clustering Gene Expressions in the Presence of

Scatter— Vivan Ramler, Iowa State University;

Updating Process—❖ Ting-Li Chen, Academia

Adjustment Methods for Survey Nonresponse and Noncoverage—Contributed

Section on Survey Research Methods, Social Statistics Section Chair(s): Kenneth Portier, American Cancer Society

of Washington

3:20 p.m.

3:35 p.m.

2:05 p.m. Nonresponse Adjustment for Multipurpose **Surveys**— * Hee-Choon Shin, NORC at the University of Chicago

2:20 p.m. Comparison of Methods to Adjust Further for Nonresponse Due to Missing Lab Data in NHANES—* Maya Sternberg, Centers for Disease Control and Prevention; Alula Hadgu,

342 CC-255 A

Diagnostic Process to Assess the Effects of Truncating Extreme BRFSS Sampling Weights—

Henry Roberts, Centers for Disease Control

Gruman Inc; Robert Woldman, North Carolina

Department of Health and Human Services; Ruth

Jiles, Centers for Disease Control and Prevention

and Prevention; Elizabeth Hughes, Northup

Complex Survey Data Analysis Software GIS— Contributed

Control and Prevention

Section on Survey Research Methods, Section on Statistical Computing, Section on Statistical Consulting, Section on Statistical Graphics Chair(s): Ronaldo Iachan, Macro International

2:05 p.m. Identification of Influential Observations for Regression Using Complex Survey Data— ♦ Jianzhu Li, University of Maryland; Richard Valliant, University of Maryland

Applied Session

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2:20 p.m. Goodness-of-Fit Tests for Logistic Regression with Complex Survey Data— Amang S. Sukasih, Mathematica Policy Research, Inc.; Donsig Jang, Mathematica Policy Research, Inc.; Haixia Xu, Mathematica Policy Research, Inc. 2:35 p.m. Longitudinal Data Analysis Using SUDAAN— Darryl Creel, RTI International Comparison of the Five Test Statistics Currently 2:50 p.m. Available in the SUDAAN Modeling Procedures— &G. Gordon Brown, RTI International 3:05 p.m. Subpopulation Analysis of Survey Data: Statistical Approaches and Software Options—❖ Brady West, University of Michigan; Steven Heeringa, Institute for Social Research; Pat Berglund, University of Michigan 3:20 p.m. GIS Data Collection for Longitudinal Surveys— Sarah M. Nusser, Iowa State University 3:35 p.m. **Economic Evaluation of Road Improvements Using** GIS and Propensity Score Matching: Case Example from the Republic of Georgia—* John Felkner, NORC at the University of Chicago; Fritz Scheuren, NORC at the University of Chicago; Celeste Tarricone, Millennium Challenge Corporation; Mamuka Shatirishvili, Millennium Challenge Georgia; Temur Paksashvili, Republic of Georgia

Contributed Poster Presentations 2:00 p.m.–3:50 p.m.

343 CC-Exhibit Hall D Contributed Poster Presentations—Contributed

Social Statistics Section, Section on Statistical Computing, Section on Statistical Graphics, Section on Statistics in Sports, Section on Survey Research Methods, Section on Quality and Productivity, Section on Risk Analysis, Section on Statistics and the Environment, Section on Statisticians in Defense and National Security, Business and Economics Statistics Section Chair(s): Dongseok Choi, Oregon Health & Science University

Applications and case studies

- 51 Modeling Enrollment Growth at California State University, East Bay— & Barbara Warsavage, CSUEB
- 52 Model-Based Clustering Analysis: An Application to Food and Nutrition Data—
 \$\displaystyle{\text{Jingjing Chen, Student}}\$
- 53 Geospatial Modeling for Water Chemistry in a Stream Network— Stephanie Fitchett, Florida Atlantic University

Biometrics, bioinformatics, computational biology

Predicting Survival from Microarray Data: A Comparative
 Study—Hege Marie Boevelstad, University of Oslo;
 Staale Nygaard, University of Oslo

Categorical, multivariate analysis

- Stalactite Plot for Outlier Detection in the Presence of a Computationally Singular Covariance Matrix—* Jeremy Nadolski, Benedictine University; Pablo Marquez, Benedictine University; Lee Ann Smith, Benedictine University
- 56 Reckless or Responsible: A Multivariate Statistical Analysis of Consumer Spending— Shannon Grant, SUMSRI; Emilola Abayomi, SUMSRI

Computational statistics, numerical methods, simulation

- 57 SASweave: Literate Programming Using SAS—*Russell Lenth, The University of Iowa; Søren Højsgaard, Aarhus University
- 58 Maximum Likelihood Estimation Using Iterative Importance Sampling—& Fassil Nebebe, Concordia University; Tak Mak, Concordia University
- 59 The Power of Linkage Analysis of a Quantitative Disease Endophenotype— & Zhuying Huang, Stony Brook University; Nancy Mendell, State University of New York at Stony Brook

Data mining and knowledge discovery, machine learning

- Development of Nearest-Neighbor Classifiers Identifying
 Dermal Sensitizers Based on a Local Lymph Node
 Assay Database— Shengqiao Li, Centers for Disease
 Control and Prevention; Adam Fedorowicz, Centers
 for Disease Control and Prevention
- 61 Methods for K-Models Clustering—& Li Li, George Mason University; James E. Gentle, George Mason University

Environmetrics, ecology, agriculture, wildlife management

- 62 A New Ecological Model for Insect Population Size with Local Collapse—* James Matis, Texas A&M University; Thomas Kiffe, Texas A&M University; Timothy Matis, Texas Tech University; Gerald Michels, Texas A&M University
- Assessment of Plant Communities Exposed to Fugitive
 Dust Along a Mine Transportation Corridor in Alaska—
 *Melanie Edwards, Exponent, Inc.; Elizabeth Maier,
 Exponent, Inc.; Dawn Reeder, Rare Earth Science; Scott
 S. Shock, Exponent, Inc.; Nicholas Gard, Exponent, Inc.
- 64 Is There a Weekend Effect in Diurnal Temperature
 Range?—*Madhuri S. Mulekar, University of South
 Alabama; Sytske Kimball, University of South Alabama

Tuesday

Experimental design

Choice of Randomized Design in Large-Scale Education Experiments— Brenda Jenney, Arizona State University; Sharon L. Lohr, Arizona State University

Graphics, visualization

Matrix Plots in Support of Visualization of Matrix Characteristics— Ferry Butar Butar, Sam Houston State University; Wathurawa A. Bandulasiri, Sam Houston State University; Melinda M. Holt, Sam Houston State University; Cecil Hallum, Sam Houston State University

Incomplete data analysis, imputation methods

- Statistical Inference in the Presence of Panel Segmentation in Ranking Data—❖Lin Xie, Kansas State University; Paul I. Nelson, Kansas State University
- 68 Generalization of the Paired T-Test for the Missing Values Case— Sophie Desjardins, University of Québec at Montréal; Alain Desgagne, University of Québec at Montréal; Pierre Lafaye de Micheaux, Universite Pierre-Mendes France; Benoit Liquet, Universite Pierre-Mendes France

Linear models, GLMs, parametric methods

- Use of Beta Regression To Model Adherence to HIV Carolina at Chapel Hill; Yin Yin, GlaxoSmithKline; Sharon Murray, GlaxoSmithKline; Steven Kathman, GlaxoSmithKline
- 70 A Modified Bonferroni Procedure for Multiple Tests— *Daniel Mundfrom, University of Northern Colorado; Michelle Roozeboom, University of Northern Colorado; Jamis Perrett, University of Northern Colorado

Pattern recognition, computer vision, shape analysis, signal processing

Multivariate Statistical Methods Applied to Digital Photo 71 Processing in Support of Object Detection— Huixing He, Sam Houston State University; Cecil Hallum, Sam **Houston State University**

Probability, stochastic processes

A Method for Estimating Intensity of a Poisson Process— Chih-Hsiang Ho, University of Nevada, Las Vegas; Sandhya Gunti, University of Nevada, Las Vegas; Heng-Wei Cheng, University of Nevada, Las Vegas

QC, operation research, risk assessment

Monitoring Variation in a Multivariate Process with Sample Size Smaller Than the Dimension—* John Young, McNeese State University; Robert L. Mason, Southwest Research Institute; Youn-Min Chou, University of Texas at San Antonio

74 **Development of New Capability Indices for Multivariate** Manufacturing Processes—Jen-Nan Pan, National Cheng Kung University; & Chun-Yi Lee, National Cheng Kung University

Sampling and survey methodology

- 75 Software Alternatives for Variance Estimation in the Analysis of Complex Sample Surveys: A Comparison of SAS Survey Procedures, SUDAAN, and AM— & Bethany Bell-Ellison, University of South Florida; Jeffrey Kromrey, University of South Florida
- 76 Performance of First-Order Weighted Random Effects Model Estimators Under Complex Sampling Designs— *Yue Jia, Educational Testing Service; S. Lynne Stokes, Southern Methodist University; Ian Harris, Southern Methodist University
- 77 Alternative Methods to Compensate for Provider Nonresponse in the National Immunization Survey— Phillip Smith, Centers for Disease Control and Prevention; Benjamin Skalland, NORC at the University of Chicago; Robert Montgomery, NORC at the University of Chicago; Sadeq Chowdhury, NORC at the University of Chicago
- 78 Extensions of a Matrix Approach for Comparing Estimate Precision of a Population Total Under a Many-to-Many Frame Structure—Martin Levy, University of Cincinnati; *ZhiYuan Dong, University of Cincinnati
- 79 Review of NHIS Public-Design Structures— * Van Parsons, National Center for Health Statistics; Chris Moriarity, National Center for Health Statistics

Spatial statistics, spatio-temporal modeling

- 80 **Estimation of Exposure Point Concentrations for** Probabilistic Risk Assessment Using a Three-Dimensional Estimation Technique— * James Gleason, Trihydro Corporation; Heidi Bowen-Morris, Trihydro Corporation
- 81 Spatiotemporal Bayesian Maximum Entropy Modeling of Hydrogen Sulfide Concentrations Using Data Collected at Different Observation Time Scales Near Swine **Operations**— * William Allshouse, The University of North Carolina at Chapel Hill; Marc Serre, The University of North Carolina at Chapel Hill; Devon Hall, Rural Empowerment Association for Community Help; Katherine Mills, The University of North Carolina at Chapel Hill; Steve Wing, The University of North Carolina at Chapel Hill

Sports, art, entertainment

82 A Critical Evaluation of 'Moneyball'— * Mitchell Watnik, California State University, East Bay

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

- 84 You (Should Be) Out of Here! Off-the-Field Factors
 Influencing National Baseball Hall of Fame Selection—

 *John Rasp, Stetson University; Nathan Crowder,
 Stetson University
- 85 Coors Field: Pitchers Graveyard?— * Jay Schaffer, University of Northern Colorado; Raj Chandran, University of Northern Colorado
- An Analysis of Judges' Inconsistency in the Athens
 2004 Olympics Artistic Gymnastics Events Using the
 Multiplicative Interaction Model— Wijith Munasinghe,
 Kansas State University; Dallas Johnson, Kansas State
 University
- Assessing Ratings Methods for College Hockey Teams—
 Robin Lock, St. Lawrence University; Julia Palmateer,
 St. Lawrence University
- 88 Measuring Player Contribution in the NBA—* David Lewin, Macalester College; Vittorio Addona, Macalester College

Statistical consulting

Statistical Application in Law: Empirical Investigation on Suspected Drunk Drivers' Data in New Jersey—*Ayako Kambara,

Statistical education, teaching, and training

90 Education by Nation: A Multivariate Statistical Analysis— *Anthony Franklin, SUMSRI; Ashley Brooks, SUMSRI

Time series/wavelet analysis

- Multiple Signal Extraction in Seismic Array Data—
 Joshua Kerr, California State University, East Bay;
 Wolfang Polonik, University of California, Davis
- 92 Smoothed Moments Variance Estimator for X-11 Seasonal Adjustment— Daniell Toth, Bureau of Labor Statistics; Stuart Scott, Bureau of Labor Statistics

Transportation statistics

93 A Market Segmentation Analysis of Multivariate Travel Survey Data—Shuang Liu, University of California, Davis; *Peng Wu, University of California, Davis

Invited Sessions 4:00 p.m.-5:50 p.m.

344 CC-Ballroom B

Wald Lecture I—Invited

IMS, General Methodology, Section on Bayesian Statistical Science Organizer(s): Tony Cai, University of Pennsylvania Chair(s): Robert L. Wolpert, Duke University

4:05 p.m. A Review of Surprises Encountered in Bayesian Model Selection—* James Berger, Duke

University

5:30 p.m. **Floor Discussion**

345 CC-Ballrooms E-J Deming Lecture—Invited

Deming Lectureship Committee, ASA, IMS, ENAR, SSC, WNAR

Organizer(s): Stephen B. Cohen, Agency for Healthcare Research and

Quality

Chair(s): Stephen B. Cohen, Agency for Healthcare Research and Quality

4:05 p.m. A Modern Framework for Enterprise Excellence—

Douglas C. Montgomery, Arizona State

University

5:30 p.m. Floor Discussion

Invited Sessions 8:00 p.m.-9:30 p.m.

346 CC-Ballrooms E-J ASA Presidential Address and Awards—Invited

ASA, ENAR, IMS, SSC, WNAR

Organizer(s): Mary Ellen Bock, Purdue University

Chair(s): Sallie Keller-McNulty, Rice University

8:00 p.m. Presentation of Awards— Sallie Keller-McNulty,

Rice University

8:30 p.m. Statistics: Harnessing the Power of Information—

*Mary Ellen Bock, Purdue University

9:00 p.m. Presentation of Founders Awards and New

ASA Fellows— Sallie Keller-McNulty, Rice

University

CC-South Foyer

CC-252 A, CC-252 B

Speaker Work Rooms 7:00 a.m.-9:00 p.m.

Cyber Center

7:00 a.m.-6:00 p.m.

CC-South Foyer 7:30 a.m.-4:30 p.m.

JSM Main Registration and ASA Membership/Special Assistance Desk

8:00 a.m.-9:00 a.m. **GA-Sussex**

Noether Award Committee Business Meeting (closed)

Chair(s): James Higgins, Kansas State University

8:00 a.m.-10:00 a.m. GA-Fontainbleau **Section on Statistical Education Executive Committee**

Meeting (closed)

Chair(s): Jessica Utts, University of California, Davis

8:00 a.m.-2:00 p.m. CC-Exhibit Hall D

Exhibitor Lounge

8:00 a.m.-4:30 p.m. CC-Exhibit Hall C

Career Placement Service

8:00 a.m.-6:00 p.m. CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

8:30 a.m.-10:30 a.m. CC-Kenneth Knight Board Room

Committee on Outreach Education Meeting (closed) Chair(s): Wendy Martinez, Office of Naval Research

9:00 a.m.-11:00 a.m. GA-Audubon

Council of Sections Publication and Newsletter Editors Meeting (closed)

9:00 a.m.-2:00 p.m. CC-Exhibit Hall D

ASA Booth #101

9:00 a.m.-2:00 p.m. CC-Exhibit Hall D

EXPO 2007

WEDNESDAY, AUGUST 1

Tours

TR10 Antelope Island and the Great Salt Lake

8:00 a.m.-12:00 p.m. CC-South Foyer (200 South Street)

TR11 Kennecott Copper Mine and Great Salt Lake

8:00 a.m.-12:00 p.m. CC-South Foyer (200 South Street)

TR12 Utah Olympic Park, Park City Main Street

1:00 p.m.-5:00 p.m. CC-South Foyer (200 South Street)

Committee/Business Meetings & Other Activities

7:00 a.m.-8:30 a.m.

GA-Vienna

Committee of Representatives to AAAS Meeting

Chair(s): Michael P. Cohen, Statistical Consultant

7:00 a.m.-8:30 a.m. Off Property

Friends and Alumni of Brigham Young University Open House/Breakfast

Organizer(s): Del Scott, Brigham Young University

7:00 a.m.-8:30 a.m.

GA-Milano

Caucus for Women in Statistics Breakfast Roundtable Discussions

Organizer(s): Tena Katsaounis, The Ohio State University

7:00 a.m.-8:30 a.m. GA-Ambassador

Committee on Career Development Meeting (closed)

Chair(s): Janice Lent, Energy Information Administration

7:00 a.m.-8:30 a.m. GA-Bagatelle

Committee on Privacy and Confidentiality Meeting

Chair(s): Alvan Zarate, National Center for Health Statistics

7:00 a.m.-8:30 a.m. **GA-Embassy**

Committee on Archives and Historic Materials Meeting (closed)

Chair(s): Carol J. Lancaster, Medical University of South Carolina

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:00 a.m.-5:00 p.m.

CC-South Foyer

ASA Marketplace

10:30 a.m.-11:30 a.m.

GA-Vienna

ASA Special Interest Group on Volunteerism Meeting (closed)

Chair(s): Robert Starbuck, Wyeth

10:30 a.m.–12:30 p.m.

GA-Sussex

Advisory Committee on Continuing Education **Excellence in CE Meeting (closed)**

Chair(s): Katherine Halvorsen, Smith College

11:30 a.m.–1:30 p.m.

CC-Kenneth Knight Board Room

Committee on Meetings (closed)

Chair(s): Xiao-li Meng, Harvard University

12:00 p.m.–2:00 p.m.

GA-Ambassador

Committee on International Relations in Statistics Meeting (closed)

Chair(s): Demissie Alemayehu, Pfizer Inc.

12:00 p.m.-2:30 p.m.

GA-Embassy

ENAR 2008 Spring Meeting Planning Committee Luncheon (closed, by invitation only)

Organizer(s): Kathy Hoskins, ENAR

12:30 p.m.-2:00 p.m.

GA-Bagatelle

Noether Award Committee Luncheon (closed)

Chair(s): James Higgins, Kansas State University

12:30 p.m.-2:00 p.m.

GA-Fontainbleau

Writing Workshop Lunch (closed)

Chair(s): Nell Sedransk, National Institute of Statistical Sciences; Keith

Crank, American Statistical Association

CC-Exhibit Hall D

2:00 p.m.-8:00 p.m. **Exhibitor Move Out**

5:00 p.m.-6:30 p.m.

CC-151 AB

Section on Survey Research Methods Business Meeting

Chair(s): William D. Kalsbeek, The University of North Carolina at Chapel Hill

5:30 p.m.-8:30 p.m.

GA-Audubon

IMS Council Meeting II (closed)

Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

6:00 p.m.-7:00 p.m.

CC-155 A

International Chinese Statistical Association Annual Members Meeting

Organizer(s): Ming-Hui Chen, University of Connecticut

6:00 p.m.-7:30 p.m.

GA-Room 2473

JSM Program Committee/ACCE/COM/Local Area Committee Reception (closed, by invitation only)

Chair(s): William B. Smith, American Statistical Association

6:00 p.m.-7:30 p.m.

CC-151 DE

Section on Statistical Education Business Meeting

Chair(s): Jessica Utts, University of California, Davis

Continuing Education (Fee Events)

CE_29T

Introduction to CART: Data Mining with Decision Trees

8:00 a.m.-9:45 a.m.

CC-151 AB

ASA

Instructor(s): Mikhail Golovnya, Salford Systems

CE 30T

New Features for Clustered and Survey Data Analysis in SUDAAN Release 9.0.3

8:00 a.m.-9:45 a.m.

CC-151 C

ASA

Instructor(s): Angela Pitts, RTI International; G. Gordon Brown, RTI

International

CE 31T

Modern Regression Analysis in SAS Software

8:00 a.m.-9:45 a.m.

CC-151 G

ASA

Instructor(s): Robert Cohen, SAS Institute Inc.

CE 32T

Power Analysis: A Simple and Effective Approach

8:00 a.m.-9:45 a.m.

CC-151 DE

ASA

Instructor(s): Hannah Rothstein,; Michael Borenstein

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

CE_33T

East® 5: A Comprehensive Package for Adaptive and Group Sequential Design, Interim Monitoring, and **Simulation**

8:00 a.m.-9:45 a.m.

CC-151 F

ASA

Instructor(s): Cyrus Mehta, Cytel Inc.

CE 34T

Introduction to MARS: Predictive Modeling with **Nonlinear Automated Regression Tools**

10:00 a.m.-11:45 a.m.

CC-151 AB

ASA

Instructor(s): Mikhail Golovnya, Salford Systems

CE_35T

From Software to Solutions in Statistics and Risk Analysis

10:00 a.m.-11:45 a.m.

CC-151 C

ASA

Instructor(s): Shawn Harahush, Palisade Corporation

CE 36T

Design and Analysis of Split-Plot Experiments Using the **SAS ADX Interface**

10:00 a.m.-11:45 a.m.

CC-151 G

ASA

Instructor(s): Sharad Prabhu, SAS Institute Inc.; José G. Ramírez, W.L. Gore & Associates, Inc.

CE 37T

Meta-Analysis: Concepts and Applications

10:00 a.m.-11:45 a.m. CC-151 DE

ASA

Instructor(s): Michael Borenstein; Hannah Rothstein

CE 38T

Generalized Linear Modeling in SPSS

CC-151 F 10:00 a.m.-11:45 a.m.

Instructor(s): Weicai Zhong, SPSS Inc.

CE 39T

Advances in Data Mining: Jerome Friedman's TreeNet/ MART and Leo Breiman's Random Forests

1:00 p.m.-2:45 p.m.

CC-151 AB

ASA

Instructor(s): Mikhail Golovnya, Salford Systems

CE_40T

Quantile Regression Using the SAS QUANTREG **Procedure**

1:00 p.m.-2:45 p.m.

CC-151 G

ASA

Instructor(s): Colin Chen, SAS Institute Inc.

Roundtables with Coffee 7:00 a.m.-8:15 a.m.

347

CC-Ballroom D Section on Risk Analysis Roundtable with Coffee

(fee event)

Section on Risk Analysis

Organizer(s): Anirban Basu, The University of Chicago

WL01 Assessing Risks in the Environment— & Edward

Boone, Virginia Commonwealth University

348

CC-Ballroom D

Section on Statistical Education Roundtable with Coffee (fee event)

Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

WL02 Study Design in Statistics Education— Felicity B.

Enders, Mayo Clinic

349

CC-Ballroom D Section on Statistical Graphics Roundtable with

Coffee (fee event)

Section on Statistical Graphics

Organizer(s): David Hunter, The Pennsylvania State University

Introducing Multivariate Statistics Through Graphics WL03 and Geometry— Daniel Kaplan, Macalester College

350

CC-Ballroom D

Section on Statistics and the Environment Roundtables with Coffee (fee event)

Section on Statistics and the Environment

Organizer(s): Andrew B. Lawson, University of South Carolina

Multivariate Environmental Health Surveillance— *Andrew B. Lawson, University of South Carolina

WL05 Bayesian Disease-Mapping Methods and Applications:

Past, Present, and Future— *Ying MacNab,

University of British Columbia

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

351 CC-Ballroom D Section on Statistics in Epidemiology Roundtable with Coffee (fee event)

Section on Statistics in Epidemiology

Organizer(s): William E. Barlow, Cancer Research and Biostatistics

WL06 Methods for Missing Data in Survey Response— *Xiaoming Sheng, University of Utah

352 CC-Ballroom D
Section on Teaching Statistics in the Health
Sciences Roundtables with Coffee (fee event)

Section on Teaching Statistics in the Health Sciences

Organizer(s): Jodi Lapidus, Oregon Health & Science University

WL07 Biostatistics Curriculum for National Institutes of Health (NIH) Training Grants: Training, Expectation, and Outcome— Madhu Mazumdar, Cornell University

WL08 Balancing Teaching and Research: Statistics in the Health Sciences—* Novie Younger, The University of the West Indies at Mona, Jamaica

Special Presentation 8:30 a.m.-10:20 a.m.

353 CC-Ballroom B Introductory Overview Lecture 4: How Scientists Can Work Effectively with the Media—Other

ASA, ENAR, IMS, WNAR, SSC

Organizer(s): G. David Williamson, Centers for Disease Control and Prevention

Chair(s): Tim Hesterberg, Insightful Corporation

8:35 a.m. How Scientists Can Work Effectively with the Media—

Richard Hayes, Union of Concern Scientists

10:05 a.m. Floor Discussion

Invited Sessions 8:30 a.m.-10:20 a.m.

354 CC-355 E

Boosting and Related Methods for Machine Learning—Invited

IMS, Section on Physical and Engineering Sciences Organizer(s): Peter Bühlmann, ETH Zurich Chair(s): Ji Zhu, University of Michigan 8:35 a.m. Fast Boosting Algorithms for Regularized Linear

Regression and Classification—* Jerome H.

Friedman, Stanford University

9:05 a.m. mboost: A Package for Model-Based

Boosting—❖ Torsten Hothorn, Institut fuer

Medizininformatik

9:35 a.m. Greedy Methods, Weak Learning, and L1

Optimization— Tong Zhang, Yahoo! Inc.

10:05 a.m. Floor Discussion

355 CC-155 D

Robust Statistical Machine Learning—Invited

Section on Statisticians in Defense and National Security, Section on Statistical Computing, Section on Physical and Engineering Sciences

Organizer(s): Yufeng Liu, The University of North Carolina at Chapel Hill

Chair(s): Howard D. Bondell, North Carolina State University

8:35 a.m. SigClust: Statistical Significance of Clustering—

❖ J. Stephen Marron, The University of North

Carolina at Chapel Hill

9:00 a.m. A Robust Hybrid of Lasso and Ridge Regression—

Art Owen, Stanford University

9:25 a.m. Consistent Multicategory Support Vector

Machines—Yufeng Liu, The University of North Carolina at Chapel Hill; ❖Ming Yuan, Georgia

Institute of Technology

9:50 a.m. Estimating Spatial Covariance Using Penalized

Likelihood with Weighted L1 Penalty—

*Zhengyuan Zhu, The University of North Carolina at Chapel Hill; Yufeng Liu, The University of North Carolina at Chapel Hill

10:15 a.m. Floor Discussion

356 CC-250 EF

◆ Exploratory Centers for Cheminformatics Research from a Statistician's Point of View— Invited

Section on Physical and Engineering Sciences, Section on Quality and Productivity

Organizer(s): Jacqueline M. Hughes-Oliver, North Carolina State University

Chair(s): S. Stanley Young, National Institute of Statistical Sciences

8:35 a.m. Multiple Mechanisms from a High-Throughput

Screen—* Douglas M. Hawkins, The University of Minnesota; Lexin Li, North Carolina State

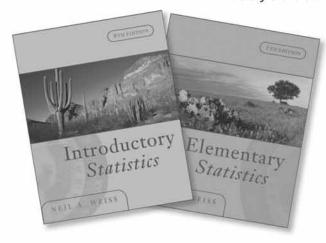
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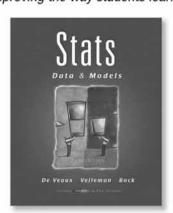
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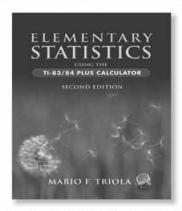


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Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:05 a.m. Projects in the Michigan Alliance for

Cheminformatic Research—❖ Kerby Shedden,

University of Michigan

9:35 a.m. Efficient Cross-Validation for Tuning and Ranking

Cheminformatics Models— William J. Welch, University of British Columbia; Hui Shen,

University of British Columbia

10:05 a.m. Floor Discussion

357 CC-250 C

Application of Hierarchical Models To Study Genetic and Epidemiologic Risk Factors—Invited

Section on Statistics in Epidemiology, ENAR, Section on Risk Analysis, Biometrics Section, WNAR

Organizer(s): Marinela Capanu, Memorial Sloan-Kettering Cancer Center Chair(s): Colin B. Begg, Memorial Sloan-Kettering Cancer Center

8:35 a.m. The Use of Hierarchical Models for Estimating

Relative Risks of Individual Genetic Variants— *Marinela Capanu, Memorial Sloan-Kettering Cancer Center; Colin B. Begg, Memorial Sloan-

Kettering Cancer Center

9:00 a.m. Hierarchical Modeling and Stochastic Variable

Selection in the Analysis of Multiple SNPs in Genetic Association Studies—* David Conti, University of Southern California; Juan P.

Lewinger, University of Southern California

9:25 a.m. Multilevel Approaches to Genotype-Phenotype

Association: VUS Classification and SNP Blocking—* Giovanni Parmigiani, The Johns Hopkins University; Edwin Iversen, Duke University; Xi Zhou, Cornell University; Daniele Fallin, The Johns Hopkins University; Ingo Ruczinski, The Johns Hopkins University;

Cristian Pattaro, Eurac

9:50 a.m. Hierarchical Models for Biases in Observational

Studies— Sander Greenland, University of

California, Los Angeles

10:15 a.m. Floor Discussion

358 CC-355 B

IMS, General Methodology

Organizer(s): Bernard W. Silverman, St. Peter's College

Chair(s): Mark Low, University of Pennsylvania

8:35 a.m. Quantile Regression Under Censorship—

*Xuming He, University of Illinois

10:00 a.m. Floor Discussion

359 CC-255 E

◆ Statistical Methodology for the Analysis of Sleep Studies—Invited

Biometrics Section, WNAR

9:00 a.m.

Organizer(s): Brian S. Caffo, Johns Hopkins Bloomberg School of Public Health

Chair(s): Karen Bandeen-Roche, Johns Hopkins Bloomberg School of Public Health

8:35 a.m. Generalized Linear Mixed Model Analysis of

Multistate Sleep Transition Data: The Sleep Heart Health Study— Brian S. Caffo, Johns Hopkins Bloomberg School of Public Health; Bruce Swihart, The Johns Hopkins University; Naresh Punishi Johns Hopkins Bayrious Medical Control

Punjabi, Johns Hopkins Bayview Medical Center

Methods for Signal Extraction from EEG Time
Series with Application to Large Studies of Sleep—
& Chongzhi Di, The Johns Hopkins University;
Ciprian M. Crainiceanu, The Johns Hopkins

University

9:25 a.m. Semiparametric Event History Models for

Analyzing Human Sleep Data— Thomas Kneib, Ludwig-Maximilians-Universität München; Ludwig Fahrmeir, University of Munich; Alexander Yassouridis, Max-Planck-Institute for

Psychiatry

9:50 a.m. Disc: David Ruppert, Cornell University

10:10 a.m. Floor Discussion

360 CC-150 A-C

Recent Developments in Macroeconometrics— Invited

Business and Economics Statistics Section

Organizer(s): Atsushi Inoue, University of British Columbia Chair(s): Atsushi Inoue, University of British Columbia

8:35 a.m. Not All Oil Price Shocks Are Alike: Disentangling

Demand and Supply Shocks in the Crude Oil
Market—* Lutz Kilian, University of Michigan

9:00 a.m. Optimal Impulse Response Function Matching

Estimation— Barbara Rossi, Duke University; Atsushi Inoue, University of British Columbia; Alastair R. Hall, University of Manchester; James Nason, Federal Reserve Bank of Atlanta

9:25 a.m. Structural Vector Autoregressions: Theory and

Application— Dan Waggoner, Federal Reserve Bank of Atlanta; Tao Zha, Federal Reserve Bank

of Atlanta

◆ Themed Session
◆ Applied Session
◆ Presenter
CC-Salt Palace Convention Center
GA-The Grand America Hotel

9:50 a.m. Projection Minimum Distance: An Estimator for

Dynamic Models— Oscar Jorda, University of

California, Davis

10:15 a.m. Floor Discussion

361 CC-255 C

◆ Bayesian Modeling of Incomplete Heterogeneous Data—Invited

WNAR, ENAR, Section on Bayesian Statistical Science, Biometrics Section Organizer(s): W. John Boscardin, University of California, Los Angeles Chair(s): Xiao Zhang, The University of Alabama at Birmingham

8:35 a.m. Flexible Modeling of the Mean and Covariance
Structure for Heterogeneous Incomplete Multiple
Longitudinal Markers— W. John Boscardin,
University of California, Los Angeles; Hector
Lemus, University of California, Los Angeles

9:00 a.m. Calculating the Effect of a Randomized Intervention from Panel Data Subject to Noncompliance—

Siddhartha Chib, Washington University in St.
Louis; Liana Jacobi, The University of Melbourne

9:25 a.m. Temporal Configuration Analysis: Hidden
Markov Models for Heterogeneous Multivariate
Longitudinal Data— Steven L. Scott, University
of Southern California

9:50 a.m. Bayesian Modeling of Longitudinal Processes with Dropout and Noncompliance—& Michael Daniels, University of Florida; Xuefeng Liu, Wayne State University

10:15 a.m. Floor Discussion

362 CC-260

○ Variable Selection and Related Statistical Inference—Invited

Section on Teaching Statistics in the Health Sciences, Biometrics Section, General Methodology

Organizer(s): Hua Liang, University of Rochester

Chair(s): Steven Wang, York University

8:35 a.m. Variable Selection in Semiparametric Regression Modeling—*Runze Li, The Pennsylvania State University; Hua Liang, University of Rochester

9:00 a.m. Selections—& Chih-Ling Tsai, University of California, Davis

9:25 a.m. Overall AIC Selection Strategy for Linear Mixed-Effects
Models—& Hua Liang, University of Rochester;
Guohua Zou, Chinese Academy of Sciences

9:50 a.m. Conditional AIC for Nonlinear Mixed Effects

Models—**♦** Florin Vaida, University of

California, San Diego

10:15 a.m. Floor Discussion

Invited Panels 8:30 a.m.-10:20 a.m.

363 CC-251 E

New Policies To Facilitate the Tenure Process for Women in Sciences—Invited

Committee on Career Development, Caucus for Women in Statistics Organizer(s): Tena Katsaounis, The Ohio State University Chair(s): Anna Nevius, U.S. Food and Drug Administration

Regina Liu, Rutgers University

Mari Palta, University of Wisconsin-Madison

Nancy Reid, University of Toronto

10:15 a.m. Floor Discussion

364 CC-254 A

☼ Improving the Agriculture Resources Management Survey: Dealing with Complexity in Government Surveys—Invited

Section on Survey Research Methods, Section on Government Statistics Organizer(s): Thomas J. Plewes, National Academy of Sciences Chair(s): Thomas J. Plewes, National Academy of Sciences

Cynthia Clark, Office for National Statistics

Frederick Conrad, University of Michigan

Carol C. House, National Agricultural Statistics Service

10:15 a.m. Floor Discussion

365 CC-255 B

Protecting Confidentiality in Public Use Data by Releasing Synthetic Datasets: Experiences with Genuine Applications—Invited

Committee on Privacy and Confidentiality, Section on Bayesian Statistical Science, Section on Survey Research Methods

Organizer(s): Jerome P. Reiter, Duke University

Chair(s): Trivellore E. Raghunathan, University of Michigan

John Abowd, Cornell University

General Program Schedule

Themed Session

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Simon Woodcock, Simon Fraser University

* Sam Hawala, U.S. Census Bureau

10:15 a.m. Floor Discussion

366 CC-254 C

Conflict of Interest Concerns in Medical Statistics—Invited

Committee on Professional Ethics, ENAR, Biometrics Section, Section on Teaching Statistics in the Health Sciences

Organizer(s): Peter B. Imrey, The Cleveland Clinic

Chair(s): Janet Wittes, Statistics Collaborative

Panelists: Peter B. Imrey, The Cleveland Clinic

- Saskia le Cessie, Leiden University Medical Centre
- Stephen Ruberg, Eli Lilly and Company
- Lisa LaVange, The University of North Carolina at Chapel Hill
- Susan S. Ellenberg, University of Pennsylvania
- Niels Keiding, University of Copenhagen

10:05 a.m. Floor Discussion

Topic-Contributed Sessions 8:30 a.m.-10:20 a.m.

367 CC-150 G

◆ Bayesian Applications in Astronomy and Physics—Topic-Contributed

Section on Bayesian Statistical Science, ENAR

Organizer(s): David van Dyk, University of California, Irvine Chair(s): David van Dyk, University of California, Irvine

8:35 a.m. A Dempster-Shafer Bayesian Solution to the Banff A1 Challenge—*Paul Edlefsen, Harvard University

8:55 a.m. An Exploratory Statistical Study of the Measured Motion of the Guide Star Used in a New Test of Einstein's Universe—* Jingchen Liu, Harvard University; Xiao-li Meng, Harvard University; Michael Ratner, Harvard-Smithsonian Center for Astrophysics; Irwin Shapiro, Harvard-

9:15 a.m. Upper Limits for Source Detection in the Three-Poisson Model— Paul Baines, Harvard University

Smithsonian Center for Astrophysics

9:35 a.m. A Statistical Approach to Stellar Archaeology—

for Astrophysics; Vinay L. Kashyap, Harvard-Smithsonian Center for Astrophysics; Andreas Zezas, Harvard-Smithsonian Center for Astrophysics

9:55 a.m. Coherent Bayesian Inference on Compact Binary

Inspirals Using a Network of Interferometric Gravitational Wave Detectors—& Christian Röver, The University of Auckland; Renate Meyer, The University of Auckland; Nelson Christensen,

Carleton College

10:15 a.m. Floor Discussion

368 CC-155 C

• • Keepers of the Fire—Topic-Contributed

Social Statistics Section

Organizer(s): Olivia Blum, Israeli Central Bureau of Statistics Chair(s): Virginia A. de Wolf, Consultant

8:35 a.m. Institutional Memory and Information

Management— Paul Johanis, Statistics Canada

8:55 a.m. Transforming Statistical Knowledge into

Institutional Memory— Olivia Blum, Israeli

Central Bureau of Statistics

9:15 a.m. The Planning Database: Decennial Census

Data for Historical, Real-Time, and Prospective Analysis—& J. Gregory Robinson, U.S. Census Bureau; Carrie L. Johanson, U.S. Census Bureau;

Antonio Bruce, U.S. Census Bureau

9:35 a.m. Disc: Fritz Scheuren, NORC at the University of

Chicago

9:55 a.m. Floor Discussion

369 CC-355 A

Application and Issues of Crossover and Matched Design in Clinical Trials—Topic-Contributed

Biopharmaceutical Section, ENAR, WNAR

Organizer(s): Yi Tsong, U.S. Food and Drug Administration

Chair(s): Sharon Murray, GlaxoSmithKline

8:35 a.m. A Study of Bioequivalence Trials with Missing

Data— *Yiyun Zhang, The Pennsylvania State

University

8:55 a.m. Crossover Designs Based on Type I Orthogonal

Arrays for a Self and Simple Mixed Carryover Effects Model with Correlated Errors— Samad Hedayat, University of Illinois at Chicago;

*Hyunsook Lee, Harvard-Smithsonian Center

Zhiwu Yan, University of Illinois at Chicago

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

9:15 a.m. Uniformly Balanced Repeated Measurements
Designs in the Presence of Subject Dropout—
Dibyen Majumdar, University of Illinois at
Chicago

9:35 a.m. A Monte Carlo Study for the Methods Used for Assessing Treatment Differences with Possible Carryover Effect in Crossover Designed Studies—* Ling Chen, U.S. Food and Drug Administration; Ferrin D. Harrison, U.S. Food and Drug Administration

9:55 a.m. Sample Size Re-estimation for Noninferior Study of Matched Data—* Yi Tsong, U.S. Food and Drug Administration; Wu Yu-te, U.S. Food and Drug Administration

10:15 a.m. Floor Discussion

370 CC-355 C

● © Experimental Design and Analysis of Drug Combinations—Topic-Contributed

Biopharmaceutical Section, ENAR, WNAR

Organizer(s): Ming T. Tan, University of Maryland Greenebaum Cancer Center

Chair(s): J. Jack Lee, The University of Texas M. D. Anderson Cancer Center

8:35 a.m. A Hierarchical Paradigm for Synergy Assessment
Modeling Approaches— William Greco, Roswell
Park Cancer Institute

9:15 a.m. Experimental Design and Synergy Analysis for Drug Combination Studies Based on Log-Linear Dose Responses—& Hong-Bin Fang, University of Maryland Greenebaum Cancer Center; Ming T. Tan, University of Maryland Greenebaum Cancer Center

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General Program Schedule

0	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel	
9:35 a.m.	A Semiparametric Response Surface Model for Assessing Drug Interaction— Maiying Kong, University of Louisville; J. Jack Lee, The University	8:35 a.m.	Collocation Tempering for Differential Equation Models—* David A. Campbell, Simon Fraser University Surrey	
9:55 a.m.	of Texas M. D. Anderson Cancer Center Disc: Ming T. Tan, University of Maryland Greenebaum Cancer Center	8:55 a.m.	Meta-Analysis Based on Summarized Data with Application to Drug-Drug Interaction—& Lang Li, Indiana University	
10:15 a.m.	Floor Discussion	9:15 a.m.	Detecting Nonlinear Dynamics in a Psychoacoustics Experiment— * Theodoro	
	CC-255 D Issues in Risk Prediction Modeling—	9:35 a.m.	Koulis, JSS Medical Research Testing for Missing Dynamical Variables—*Giles Hooker, Cornell University	
	rics Section Nancy Cook, Brigham and Women's Hospital	9:55 a.m.	Statistical Data Assimilation for Marine Ecological Prediction— Michael Dowd, Dalhousie University	
8:35 a.m.	h B. D'Agostino, Sr., Boston University Evaluating the Incremental Impact of a Risk Prediction Marker Using Predictiveness	10:15 a.m.	Floor Discussion	
	Curves—* Margaret Pepe, Fred Hutchinson Cancer Research Center; Wen Gu, University of Washington; Ying Huang, University of Washington; Ziding Feng, Fred Hutchinson	Trials—To	CC-155 F sian Statistics in Medical Device Clinical opic-Contributed lyesian Statistical Science, Biopharmaceutical Section, ENAR	
0.55	Cancer Research Center	Organizer(s): Telba Irony, U.S. Food and Drug Administration		
8:55 a.m.	C-Statistics and Reclassification in Risk Prediction	Chair(s): Jeffrey D. Blume, Brown University		
9:15 a.m.	Models— Nancy Cook, Brigham and Women's Hospital Updating Clinical Prediction Models: Simple	8:35 a.m.	Weighing Evidence and Loss in Clinical Decisionmaking—* Jeng Mah, American Medical Systems	
	Methods Give Promising Results—	8:55 a.m.	Constructing Bayesian Trials in a Type I Error– Controlled Regulatory World: The Good, the Bad, and the Ugly— Scott Berry, Berry Consultants	
0.25 0 22	Vergouwe, Julius Center UMC Utrecht; Diederick E. Grobbee, Julius Center UMC Utrecht	9:15 a.m.	Bayesian Designs and Therapeutic Medical Device Trials— Pablo Bonangelino, U.S. Food and	
9:35 a.m.	Rehabilitation of the Case-Control Design in Prediction Research—* Karel G. Moons, Julius Center UMC Utrecht; Cornelis Biesheuvel, Julius Center UMC Utrecht; Yvonne Vergouwe, Julius Center UMC Utrecht; Ruud Oudega,	9:35 a.m.	Drug Administration Examples from Medical Device Clinical Trials To Illustrate Advantages of the Bayesian Approach— *Teresa Nelson, Technomics Research, LLC	
	Julius Center UMC Utrecht; Arno W. Hoes, Julius Center UMC Utrecht; Diederick E. Grobbee, Julius Center UMC Utrecht	9:55 a.m.	Bayesian Sample Size Calculation with Average Length Criterion Using Historical Control Data in Medical Device Trials—*Liang Li, Genzyme	
9:55 a.m.	Disc: Michael J. Pencina, Boston University		Corporation; Ming-Hui Chen, University of	
10:15 a.m.	Floor Discussion		Connecticut; Hong Wang, Boston Scientific Corporation	
372	CC-251 A	10:15 a.m.	Floor Discussion	

⋄ Statistics for Nonlinear Dynamics— Topic-Contributed

IMS, Business and Economics Statistics Section Organizer(s): Giles Hooker, Cornell University Chair(s): Anand Vidyashankar, Cornell University

♣ Themed Session ♠ Applied Session ♦ Presenter CC-Salt Palace Convention Center GA-The Grand America Hotel

374 CC-251 D

◆ Statistical Research in the VA Healthcare System—Topic-Contributed

Section on Health Policy Statistics, Section on Government Statistics, Section on Statistics in Epidemiology

Organizer(s): Roslyn A. Stone, Veterans Affairs Pittsburgh Healthcare System

Chair(s): Xiao-Hua (Andrew) Zhou, University of Washington

8:35 a.m. Determining Sample Sizes for Estimating and Comparing Item Parameters from the Rasch Model— Linda Young, University of Florida

8:55 a.m. The Impact of Imbalance in Two-level Logistic
Models—& Huanyu Chen, University of
Pittsburgh; Roslyn A. Stone, Veterans Affairs
Pittsburgh Healthcare System

9:15 a.m. A Comparison of Methods To Impute Missing
Race in VA Administrative Data— * Maria Mor,
CHERP/VA Pittsburgh Healthcare System;
Chunrong Cheng, University of Pittsburgh;
Bevanne Bean-Mayberry, Veterans Affairs
Greater Los Angeles; Gong Tang, University of
Pittsburgh; Roslyn A. Stone, Veterans Affairs
Pittsburgh Healthcare System

9:35 a.m. Estimating Concordance for a Hazard Scale in the Presence of Time-Varying Data—*Peter Richardson, Baylor College of Medicine

9:55 a.m. Analyzing Health Care Cost Data in the Presence of Heterogeneous Patients: Wouldn't Three Pieces Be Better Than One?—& James F. Burgess, Jr., Boston University; & Kevin L. Sloan, University of Washington

10:15 a.m. Floor Discussion

375 CC-250 B

◆ Risk Measures in Actuarial Science—Topic-Contributed

Section on Nonparametric Statistics, Section on Risk Analysis, Business and Economics Statistics Section

Organizer(s): Ricardas Zitikis, University of Western Ontario Chair(s): Duncan Murdoch, University of Western Ontario

8:35 a.m. Risk Measures, Distortion Parameters, and their Empirical Estimation— Bruce Jones, University of Western Ontario; Ricardas Zitikis, University of Western Ontario

8:55 a.m. Nested L-Statistics and Their Use in Comparing the Riskiness of Portfolios— Vytaras Brazauskas, University of Wisconsin-Milwaukee; Bruce

Jones, University of Western Ontario; Madan Puri, Indiana University; Ricardas Zitikis, University of Western Ontario

9:15 a.m. Testing Hypotheses About the Equality of Several Risk Measure Values with Applications in Insurance—* Madan Puri, Indiana University

9:35 a.m. Estimating Conditional Tail Expectations with Actuarial Applications in View—* Ricardas Zitikis, University of Western Ontario

9:55 a.m. Floor Discussion

Contributed Sessions 8:30 a.m.-10:20 a.m.

376 CC-255 F Analysis of Binary Data and Directional Data— Contributed

Biometrics Section

Chair(s): Tammy Massie, U.S. Food and Drug Administration

8:35 a.m. Some New Models and Procedures for Directional Data— * Brett Presnell, University of Florida; Paylina Rumcheva, C-BASS, LLC

8:50 a.m. Analysis of Binary and Continuous Outcomes in Neonatal Clinical Trials with Twin Births—

* Michele Shaffer, The Pennsylvania State University; Kristi L. Watterberg, University of New Mexico; Allen Kunselman, The Pennsylvania State University

9:05 a.m. Analysis of Relatively Large Sparse Binary Data—

*Ko-Kang Wang, The Australian National
University; Susan Wilson, The Australian
National University; Alan Welsh, The Australian
National University; John Maindonald, The
Australian National University

9:20 a.m. Generalized Linear Mixed Models for Binary
Outcome Data with a Low Number of Occurrences:
Understanding When Estimation Procedures Fail—
* Marie-Eve Beauchamp, McGill University;
Robert W. Platt, McGill University; James A.
Hanley, McGill University

9:35 a.m. Binary Time Series Modeling with Application to Kinetic—* Ying Hung, Georgia Institute of Technology; Chien-Fu Jeff Wu, Georgia Institute

of Technology

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C	Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
9:50 a.m.	Regional Spatial Cluster Detection for Repeated Measured Outcomes— Andrea Cook, Group Health Center for Health Studies; Diane R. Gold, Channing Laboratory, Brigham and Women's Hospital, and Harvard Medical School; Yi Li, Harvard School of Public Health	9:05 a.m.	Using the Bayesian Approach for Pharmaceutical Process Optimization— * Aili Cheng, GlaxoSmithKline; John Peterson, GlaxoSmithKline; Younan Chen, GlaxoSmithKline; Gregory Stockdale, GlaxoSmithKline
10:05 a.m.	Floor Discussion	9:20 a.m.	Bayesian Spines To Infer Population Mean and Tolerance Region from Multivariate Longitudinal Data—Qianqiu Li, Wyeth; & Yonggang Zhao, Wyeth
377	CC-257	0.05	- '
	nces in Some Classic Tests of	9:35 a.m.	Bayesian Hierarchical Models for Detecting Safety
	es—Contributed		Signals in Clinical Trials— Hong A. Xia, Amgen Inc.; Haijun Ma, Amgen Inc.
		9:50 a.m.	Controlled Bayesian Optimal Designs for Dose-
Organizer(s):	Gengsheng Qin, Georgia State University		Response Studies— Wei Zhu, State University
8:35 a.m.	Likelihood Ratio Tests of Correlated Multivariate Samples—& Erning Li, Texas A&M University; Johan Lim, Texas A&M University		of New York at Stony Brook; Jiaqiao Hu, State University of New York at Stony Brook; Weng- Kee Wong, University of California, Los Angeles
8:50 a.m.	A Comparison of Node-Splitting Rules in Recursive Partitioning Analysis of Multivariate Quantitative Structure Activity Data—*Yujun Wu, University	10:05 a.m.	A Bayesian Approach to Utilizing Prior Data in New Drug Development— * Todd Coffey, Amylin Pharmaceuticals, Inc.; Larry Z. Shen, Amylin
	of Medicine and Dentistry of New Jersey; Marc Genton, University of Geneva; Leonard A. Stefanski, North Carolina State University		Pharmaceuticals, Inc.; Wei Deng, Amylin Pharmaceuticals, Inc.
9:05 a.m.	On Identifying Minimum Efficacious Doses in	379	CC-355 F
	Combination Drug Trials— * Julia Soulakova,		
	University of Nebraska-Lincoln; Allan Sampson,	I Indar IVII	
	Chiversity of ivebraska Emeconi, i man sampson,		odels in Clinical Trials—Contributed
	University of Pittsburgh	Biopharmaceu	
9:20 a.m.	University of Pittsburgh	Biopharmaceu	
9:20 a.m.	University of Pittsburgh Weighted Distance Measures for Metabolomic Data— Philip Dixon, Iowa State University	Biopharmaceu	utical Section mas J. Uryniak, AstraZeneca Inverse Prediction: A Clinical Application—
9:20 a.m. 9:35 a.m.	University of Pittsburgh Weighted Distance Measures for Metabolomic	Biopharmaceu Chair(s): Tho	Itical Section mas J. Uryniak, AstraZeneca Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the
	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—& Philip Dixon, Iowa State University A Combined Test for the Equality of Means—	Biopharmaceu Chair(s): Tho 8:35 a.m.	Inverse Prediction: An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures
	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue	Biopharmaceu Chair(s): Tho 8:35 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model—
	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed	Biopharmaceu Chair(s): Tho 8:35 a.m. 8:50 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc.
9:35 a.m.	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central	Biopharmaceu Chair(s): Tho 8:35 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for
9:35 a.m.	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central Connecticut State University	Biopharmaceu Chair(s): Tho 8:35 a.m. 8:50 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for Repeated Measures—* Katie Spencer, Zimmer,
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9:35 a.m. 9:50 a.m. 10:05 a.m. 378	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central Connecticut State University Floor Discussion	Biopharmaceu Chair(s): Tho 8:35 a.m. 8:50 a.m. 9:05 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for Repeated Measures—* Katie Spencer, Zimmer, Inc.; Daniel Reyner, Zimmer, Inc A Multiplicative Heteroscedasticity-Based Transformation To Reduce Heteroscedasticity in General Linear Models—* Mitchell Rosen,
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9:35 a.m. 9:50 a.m. 10:05 a.m. 378	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central Connecticut State University Floor Discussion CC-355 D sian Approaches in Drug Development—ed	Biopharmaceu Chair(s): Tho 8:35 a.m. 8:50 a.m. 9:05 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for Repeated Measures—* Katie Spencer, Zimmer, Inc.; Daniel Reyner, Zimmer, Inc A Multiplicative Heteroscedasticity-Based Transformation To Reduce Heteroscedasticity in General Linear Models—* Mitchell Rosen, Omnicare Clinical Research Choosing an Appropriate Variance-Covariance
 9:35 a.m. 9:50 a.m. 10:05 a.m. 378 ◆ Bayes Contribute Biopharmace 	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central Connecticut State University Floor Discussion CC-355 D sian Approaches in Drug Development— ed ed ed editical Section	Biopharmacet <i>Chair(s): Tho</i> 8:35 a.m. 8:50 a.m. 9:05 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for Repeated Measures—* Katie Spencer, Zimmer, Inc.; Daniel Reyner, Zimmer, Inc A Multiplicative Heteroscedasticity-Based Transformation To Reduce Heteroscedasticity in General Linear Models—* Mitchell Rosen, Omnicare Clinical Research Choosing an Appropriate Variance-Covariance Structure for Small Sample Size Data—* Zhaoling
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9:35 a.m. 9:50 a.m. 10:05 a.m. 378	University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means— * Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand Chauhan, Indiana University Purdue University Fort Wayne Analysis of One-Way Layout of Overdispersed Count Data—* Krishna Saha, Central Connecticut State University Floor Discussion CC-355 D Sian Approaches in Drug Development— ed Itical Section In Portugal, Wyeth A Revisit to Sample Size Computation—	Biopharmacet <i>Chair(s): Tho</i> 8:35 a.m. 8:50 a.m. 9:05 a.m. 9:20 a.m.	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the Covariance Parameters for Repeated Measures Analysis with Unstructured Covariance Model— * Kaifeng Lu, Merck & Co., Inc. Permutation Test-Based Significance Levels for Repeated Measures—* Katie Spencer, Zimmer, Inc.; Daniel Reyner, Zimmer, Inc A Multiplicative Heteroscedasticity-Based Transformation To Reduce Heteroscedasticity in General Linear Models—* Mitchell Rosen, Omnicare Clinical Research Choosing an Appropriate Variance-Covariance Structure for Small Sample Size Data—* Zhaoling Meng, sanofi-aventis; Xun Chen, sanofi-aventis; Robert Kringle, sanofi-aventis

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

10:05 a.m. Permuted Block Randomization and Balance

in Clinical Trials—& John (Joong Hee) Han, Centocor, Inc.; Lee-Lian Kim, Centocor, Inc.

380 CC-255 A

Applications in Statistical Genetics— Contributed

ENAR, Section on Teaching Statistics in the Health Sciences, Biometrics Section *Chair(s): Jared Lunceford, Merck & Co., Inc.*

8:35 a.m. Gene-Environment Interaction Test for

Dichotomous Traits in Nuclear Families—

Thomas Hoffmann, Harvard University; Nan Laird, Harvard University

8:50 a.m. Oracle and Adaptive Compound Decision Rules for

False Discovery Rate Control— Wenguang Sun, University of Pennsylvania; Tony Cai, University

of Pennsylvania

9:05 a.m. A General Tree-Based Regression Model for

Li, National Institutes of Health; Jinbo Chen,

University of Pennsylvania

9:20 a.m. Using a Hybrid-Modified Genetic Algorithm To

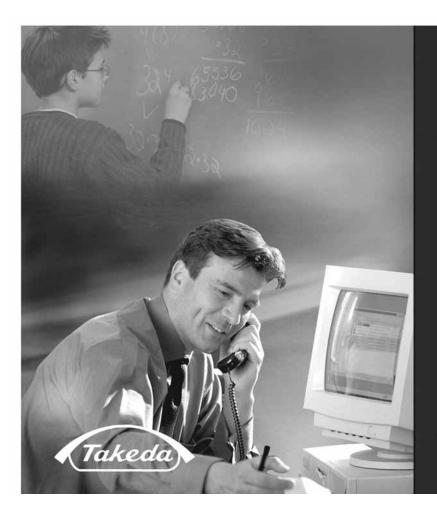
Find Feasible Regions of a Desirability Function— ❖ Wen Wan, Virginia Polytechnic Institute and State University; Jeffrey B. Birch, Virginia

Polytechnic Institute and State University

9:35 a.m. A Study of Variability in Mass Spectrometry

Data— Ann L. Oberg, Mayo Clinic; Douglas W. Mahoney, Mayo Clinic; Jeanette E. Eckel-Passow, Mayo Clinic; Terry M. Therneau, Mayo Clinic; Christopher J. Mason, Mayo Clinic; Kenneth L. Johnson, Mayo Clinic; K. Sreekumaran Nair, Mayo Clinic; H. Robert

Bergen, Mayo Clinic



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C	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
9:50 a.m.	An Approach to Infer Gene Interaction Networks— & Alina Andrei, University of Wisconsin- Madison; Christina Kendziorski, University of	8:50 a.m.	A Nonparametric Time Reversibility Test Based on U-Statistics— Nusrat Jahan, James Madison University; Yuji Tomita, James Madison University
10:05 a.m.	Wisconsin-Madison Cluster-Based Phenotype Construction for Linkage Heterogeneity—& Cavan Reilly, The University of Minnesota	9:05 a.m.	Asymptotic Properties of Discrete Fourier Transforms of Spatial Processes— Soutir Bandyopadhyay, Texas A&M University; Soumendra N. Lahiri, Texas A&M University
381	CC-150 D-F	9:20 a.m.	Adaptive Density Estimation Under Dependence— Olivier Wintenberger, SAMOS; Irene Gannaz, University Joseph Fourier
	sian Methods in the Social Sciences—	0.25	• • •
Contribute		9:35 a.m.	Model Selection for Multivariate Smoothing Splines with Correlated Random Errors— & Eren
	yesian Statistical Science san C. Setodji, RAND Corporation		Demirhan, North Carolina State University; Hao
8:35 a.m.	A Bayesian Method for IRT Model Selection—		Zhang, North Carolina State University
0.00 4	Sherwin Toribio, University of Wisconsin-La Crosse	9:50 a.m.	An Entropy-derived Measurement of Dependence Between Two Groups of Random Variables—
8:50 a.m.	A New Bayesian Approach for Misidentification		Nan Kong, Educational Testing Services
	with Applications for Survey Data—Simon Cheng, University of Connecticut; *Yingmei Xi, University of Connecticut; Ming-Hui Chen,	10:05 a.m.	One-Sample Location Tests for Multilevel Data—& Denis Larocque, HEC Montreal; Jaakko Nevalainen, University of Tampere; Hannu Oja,
	University of Connecticut		University of Tampere
9:05 a.m.	Model-Based Clustering of non-Gaussian Longitudinal Data— Miguel Juarez, University of Warwick; Mark F. J. Steel, University of Warwick	383	CC-251 F Risk and Exposure Assessment—
9:20 a.m.	Markov Chain Monte Carlo-Based Mixture	Contribut	
	Modeling Applications in Psychometrics—	Section on Ris	•
0.05	*Dipendra Subedi, Michigan State University		nund Lau, Exponent, Inc.
9:35 a.m.	Bayesian Analysis of Repeated Behaviors Using Event-Dependent Frailty Models—& Getachew Dagne, University of South Florida	8:35 a.m.	Bayesian Exposure Assessment for Pesticide Intake from Multiple Food Products—& Ayona Chatterjee, University of West Georgia; Graham
9:50 a.m.	A Joint Multivariate Ordered Probit and Tobit Modeling of Households' Vehicle Choice and Usage—		Horgan, Biomathematics & Statistics of Scotland; Chris Theobald, University of Edinburgh
10:05 a.m.	*Hao Fang, University of California, Irvine Fusion, Pro and Con: Model-Based Fusion of MaxDiff and Ratings Data to Put Respondent Choice Parameters on a Common Scale and	8:50 a.m.	The Application of the Benchmark Approach to the Study of the Joint Effect of Mixtures of Air Pollutants— David Svendsgaard, U.S. Environmental Protection Agency
	Consistency with Random Utility Theory— Peter Lenk, The University of Michigan; Lynd Bacon, Lynd Bacon Associates	9:05 a.m.	Bayesian Analysis of Physiologically Based Pharmacokinetics Modeling of Perchloroethylene in Humans—& Junshan Qiu, University of
202	CC 250 A		Georgia
Contribute Section on No	CC-250 A ametric Inference for Correlated Data— ed nparametric Statistics young Jun, Texas A&M University	9:20 a.m.	Parametric Modeling of Melanoma Prognoses: An Alternative to the Cox Regression Model— Shouluan Ding, The University of Alabama at Birmingham; Huiyi Lin, The University of Alabama at Birmingham; Renee Desmond,
8:35 a.m.	Spectral-Based Tests for Periodicities—*Lai Wei, The Ohio State University; Peter F. Craigmile, The Ohio State University		The University of Alabama at Birmingham; Seng-jaw Soong, The University of Alabama at Birmingham

GA-The Grand America Hotel CC-Salt Palace Convention Center Themed Session Applied Session Presenter

9:35 a.m. A Bayesian Network-Driven Approach for **Quantitative Risk Assessment of Foreign Body** Injuries in Children— Cecilia Scarinzi, Università degli Studi di Torino; Paola Berchialla, University of Torino; Silvia Snidero, S&A S.r.l.; Alexander Stancu, University of Torino; Roberto Corradetti, University of Torino; Dario Gregori, University of Torino 9:50 a.m. Confidence Intervals for Quantiles Using

Generalized Lambda Distributions—❖ Steve Yu Shuo Su, The George Institute for International Health

10:05 a.m. Floor Discussion

384 CC-155 A

Graphs and Networks—Contributed

Section on Statistical Computing, Section on Government Statistics, Section on Statistical Graphics, Section on Statisticians in Defense and **National Security**

Chair(s): Stanley Wasserman, Indiana University

8:35 a.m. Structural Learning of Chain Graphs via **Decomposition**—**❖** Zongming Ma, Stanford University; Xianchao Xie, Harvard University; Zhi Geng, Peking University

8:50 a.m. A Statistical Social Network Approach to Computer Network Optimization—❖ Hadi Rezazad; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University

9:05 a.m. Scale-Free Origin-Destination Flow Statistics Estimation in a High-Speed Network— Aiyou Chen, Alcatel-Lucent; Jin Cao, Bell Labs; Tian Bu, Bell Labs

9:20 a.m. Style of Author-Coauthorship Social Networks: Statisticians of Prominent U.S. Universities— Walid Sharabati, George Mason University; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University

9:35 a.m. Partitioning the Sample Space on Five Taxa for the Neighbor Joining Algorithm—❖ Ruriko Yoshida, University of Kentucky; Kord Eickmeyer, Institute fir Informatik, Humboldt-Universitat zu Berlin

9:50 a.m. Destratified Importance Sampling—

*Joseph Blitzstein, Harvard University

Process Modeling To Explain Ordinal Categorical 10:05 a.m. Data— Simone Gray, Duke University; Alan E. Gelfand, Duke University

CC-254 B 385

Creating Cognitive Thinking Opportunities in **Introductory Statistics Classes—Contributed**

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Chair(s): Josephine Hamer, Western Connecticut State University

8:35 a.m. Shades of Gray: Ambiguity Tolerance and Inferential Thinking— Robert Carver, Stonehill College

8:50 a.m. Using Student-Generated Survey Data To Reinforce Basic Concepts of Introductory Statistics— Elizabeth Walters, Loyola College in Maryland

9:05 a.m. How Much Mathematics Is Appropriate in a

Modern Statistics Course?— & Brian E. Smith,

McGill University

9:20 a.m. Misconceptions in Interpreting Center and Variability in Graphical Representations— & Linda Cooper, Towson University; Felice Shore, **Towson University**

9:35 a.m. College Students' Intuitive Reasoning About Variation of Sample Mean— Carl Lee, Central Michigan University; Maria Meletiou-Mavrotheris, Cyprus College

Observational Creativity: Statistical Reasoning 9:50 a.m. and the Dead Sea Scrolls— Donald Bentley, Pomona College

10:05 a.m. Discovering the Underlying Themes of Statistical Models—❖ Steve Wang, Swarthmore College

386 CC-251 B Space-Time Modeling—Contributed

Section on Statistics and the Environment, General Methodology, Section on Statisticians in Defense and National Security

Chair(s): Lisa Madsen, Oregon State University

8:35 a.m. Characterizing the Dependence Structure of Space-Time Processes Using Computer-Model Output and Ohio State University; Catherine A. Calder, The Ohio State University; Tao Shi, The Ohio State University

8:50 a.m. Bayesian Hierarchical Models for Extreme Values Observed over Space and Time—& Huiyan Sang, Duke University; Alan E. Gelfand, Duke University Applied Session

Presenter

CC-Salt Palace Convention Center

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9:05 a.m.	Semiparametric Zero-Inflated Poisson Models for Spatio-Temporal Environmental Processes—&Ali Arab, University of Missouri-Columbia; Christopher K. Wikle, University of Missouri-Columbia; Scott Holan, University of Missouri-Columbia	9:35 a.m.	University; Shili Lin, The Ohio State University Regression Models for Paired Censored Exponential and Gamma Distributions—* Michael P. Jones, Macquarie University; Don R. McNeil, Macquarie University
9:20 a.m.	Columbia A Spatial-Temporal Point Process Model for Nowcasting Radar Reflectivities— *Yong Song, University of Missouri-Columbia; Christopher K. Wikle, University of Missouri-Columbia	9:50 a.m.	Modeling a Cross-Sectional Response Variable with Longitudinal Predictors: An Example of Pulse Pressure and Pulse Wave Velocity— Veena Shetty, National Institutes of Health; Christopher Morrell, Loyola College in Maryland; Samer S.
9:35 a.m.	Identification of Pollution Source Directions via MCMC— Basil Williams, Brigham Young University; William Christensen, Brigham Young University	10:05 a.m.	Najjar, National Institutes of Health ROC Analysis for Longitudinal Disease Diagnostic Data Without a Gold Standard Test—& Chong Wang, Cornell University; Bruce W. Turnbull,
9:50 a.m.	Bias in the Estimation of Self-Exciting Point Process Models for Earthquake Occurrences— Annie Chu, University of California, Los Angeles; Frederic Paik Schoenberg, University		Cornell University; Yrjö T. Gröhn, Cornell University; Søren S. Nielsen, The Royal Veterinary and Agricultural University
	of California, Los Angeles; Alejandro Veen, IBM	388	CC-155 E
10:05 a.m.	T.J. Watson Research Center An Application of Voronoi Diagrams to Modeling Earthquake Catalogs—& Christopher Barr, University of California, Los Angeles; Frederic Paik Schoenberg, University of California, Los Angeles	 Topics in Survey and Census Redesigns— Contributed Section on Survey Research Methods 	
		Chair(s): Ism 8:35 a.m.	ael Flores Cervantes, Westat Strategic Directions for the 2011 Canadian Census of Population—* David Dolson, Statistics
Epidemiol	cC-250 D In Methods and Applications in ogy—Contributed Itistics in Epidemiology, Section on Teaching Statistics in the	8:50 a.m.	Canada; Normand Laniel, Statistics Canada Alternative Allocation Designs for a Highly Stratified Establishment Survey—& Ernest Lawley, Bureau of Labor Statistics
	es, Section on Health Policy Statistics	9:05 a.m.	Sampling with Uncertain Frame Counts: Challenges in Sampling Head Start Children
	Cai, University of South Carolina		for the FACES Study—&Barbara L. Carlson,
8:35 a.m.	HIV Dynamics and Natural History Studies: Joint Modeling with Interval-Censored Event Times and Sparse Longitudinal Data—*Li Su, Brown University; Joseph W. Hogan, Brown University	9:20 a.m.	Mathematica Policy Research, Inc. Sample Design Research for the National Home and Hospice Care Survey— & Karen Davis, National Center for Health Statistics; Iris
8:50 a.m.	Covariate-Adjusted Constrained Bayes Predictions of Random Intercepts and Slopes—& Robert Lyles, Emory University; Renee Moore, University of Pennsylvania; Amita K.	9:35 a.m.	Shimizu, National Center for Health Statistics Sample Design of the Canadian Health Measures Survey— Sarah M. Dion, Statistics Canada
	Manatunga, Emory University; Kirk Easley, Emory University	9:50 a.m.	Sampling and Estimation Issues in the Redesign of the Canadian Survey of Household Spending— & Christian Nadeau, Statistics Canada
9:05 a.m.	Family-Based Case-Control Studies— Li Zhang, The Cleveland Clinic; Bhramar Mukherjee, University of Michigan	10:05 a.m.	Sample Redesign for the FDIC's Asset Valuation Review— David W. Chapman, Federal Deposit
9:20 a.m.	Association Test Using Pedigree and Multilocus		Insurance Corporation

Data with Missing Genotypes and Population Structure—* Jie Ding, The Ohio State



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Applied Session

Presenter

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389 CC-155 B

Survey Estimation and Inference—Contributed

Section on Survey Research Methods

Chair(s): James R. Chromy, RTI International

8:35 a.m. Design Effects of Sampling Frames in

Establishment Surveys of Small Populations— Monroe Sirken, National Center for Health Statistics; *Iris Shimizu, National Center for

Health Statistics

8:50 a.m. Variance Estimation for Statistical Matching Using

Multiple Imputation—❖ James Reilly, University of

Auckland

9:05 a.m. Using Bootstrap Variance Calculations for a

Survey with a Simple Design: The Case of the 2005 National Survey of the Work and Health of Nurses— & Gildas Kleim, Statistics Canada; Yves

Bélanger, Statistics Canada

9:20 a.m. Balanced Repeated Replication Variance Estimates

from the Medical Expenditure Panel Survey
1996–2003 Household Component— Dan Liao,

University of Maryland

9:35 a.m. Application of the Bootstrap Method in the

International Price Program— Patrick Bobbitt, Bureau of Labor Statistics; Steven P. Paben, Bureau of Labor Statistics; Moon Jung Cho, Bureau of Labor Statistics; James A. Himelein Jr., Bureau of Labor Statistics; Te-Ching Chen, Bureau of Labor Statistics; Lawrence Ernst,

Bureau of Labor Statistics

9:50 a.m. Floor Discussion

390 CC-251 C

Model Specification, Estimation, and Evaluation—Contributed

Social Statistics Section

Chair(s): Frank J. Potter, Mathematica Policy Research, Inc.

8:35 a.m. A New Model for Interaction Effects— David

Weakliem, University of Connecticut

8:50 a.m. Linear Information Models: A Prototype— Philip

E. Cheng, Academia Sinica; Jiun W. Liou, Academia Sinica; Michelle Liou, Academia Sinica; John Aston, Academia Sinica

9:05 a.m. How Many Factors? A Strategy for Identifying

Latent Structure in Factor Analysis— Mitchell Harris, Brigham Young University; Michael K. Lauritzen, Brigham Young University; Landon Poppleton, Brigham Young University; Robert

Bubb, Brigham Young University; Bruce Brown,

Brigham Young University

9:20 a.m. **Comparing Factor Loadings in Exploratory**

Factor Analysis: Comparison of Asymptotic and Randomization Tests— & Holmes Finch, Ball State

University; Brian French, Purdue University

9:35 a.m. Extensions to Latent Cluster Models for Social

Networks—* Pavel Krivitsky, University of Washington; Mark S. Handcock, University of Washington; Adrian E. Raftery, University of Washington; Peter D. Hoff, University of

Washington

9:50 a.m. Estimating Personal Network Size— Tyler

H. McCormick, University of Connecticut; Tian Zheng, Columbia University; Matthew J.

Salganik, Columbia University

10:05 a.m. Floor Discussion

Invited Sessions 10:30 a.m.-12:20 p.m.

391 CC-155 D

Statistical Consulting in Games and Sports Organizations—Invited

Section on Statistics in Sports, Section on Statistical Consulting

Organizer(s): Mark E. Glickman, Boston University Chair(s): Eric T. Bradlow, University of Pennsylvania

10:35 a.m. Prediction of Hitting Performance in Baseball—

*Shane T. Jensen, University of Pennsylvania

11:00 a.m. It's All Fair Game: Consulting for an Online

Competitive Entertainment Company— & Mark E.

Glickman, Boston University

11:25 a.m. Academic Sports Radio: Construction of

Interpretable and Valid Metrics for Sports

Consulting—& C. Shane Reese, Brigham Young

University

11:50 a.m. Disc: David H. Annis, Wachovia Corporation

12:10 p.m. Floor Discussion

CC-355 F

392

Analyses and Applications in High-Throughput Screening Assays—Invited

Biopharmaceutical Section, WNAR

Organizer(s): Xiaohua (Douglas) Zhang, Merck & Co., Inc.

Chair(s): Xiaodong (Eric) Wu, Johnson & Johnson PRD

High Throughput Screening (HTS) for Lead and 10:35 a.m. Target Identification—❖ Marc Ferrer, Merck &

Co., Inc.

11:00 a.m. Testing for Excess Over Highest Single Agent with

an Application to High-Throughput Screening—

John Peterson, GlaxoSmithKline

11:25 a.m. Simple Statistical Parameters but Quick Solutions

in High-Throughput Screening Assays— * Xiaohua

(Douglas) Zhang, Merck & Co., Inc.

Applications of RNAi High-Throughput Screening 11:50 a.m.

in Drug Discovery— & Amy S. Espeseth, Merck &

Co., Inc.

Floor Discussion 12:15 p.m.

CC-355 D 393

Statistical Issues and Novel Models for Quantifying the Effects of Continuous Traits on Mortality: Examples from Obesity—Invited

ENAR, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, WNAR

Organizer(s): Mai A. Elobeid, The University of Alabama at Birmingham

Chair(s): Mark Beasley, The University of Alabama at Birmingham

10:35 a.m. Methods for Correcting Regression Dilution

and Reverse Causation Biases in Regression-Model Survival Analyses—* James Greenberg,

Brooklyn College

10:55 a.m. Intentional Weight-Loss Effects on Mortality Rate

Modeled as a Latent Variable Problem—♦ Gary L.

Gadbury, University of Missouri-Rolla

11:15 a.m. In Search of the Law of Mortality— S. Jay

Olshansky, University of Illinois at Chicago

11:35 a.m. Accounting for Unobserved Confounders via

> Data Augmentation— David B. Allison, The University of Alabama at Birmingham

11:55 a.m. Disc: Joseph Cappelleri, Pfizer Inc.

12:15 p.m. Floor Discussion 394

CC-251 F

Understanding and Measurement of Human Capital—Invited

Social Statistics Section, Section on Survey Research Methods Organizer(s): Juanita Tamayo Lott, U.S. Census Bureau Chair(s): Daniel H. Weinberg, U.S. Census Bureau

10:35 a.m. The Whole Is Greater than the Sum of Its Parts: The U.S. Census Bureau Human Capital Management Information System—❖ Juanita Tamayo Lott, U.S. Census Bureau; Tyra D. Smith, U.S. Census Bureau; Mark Holdrege, U.S.

Census Bureau

10:55 a.m. Measuring a Blended 21st-Century Work Force: **Lessons from NASA**—**♦** Stephen E. Chesley, National Aeronautics and Space Administration; Craig Conlin, National Aeronautics and Space Administration

Accurately Measuring a Creative Economy— 11:15 a.m. Steven W. Pedigo, Greater Washington Initiative

11:35 a.m. Water, Water Everywhere and Not a Drop to **Drink: Higher Education Access and Success** Among America's Growing Population of Under-Represented Students of Color— Walter R. Allen, University of California, Los Angeles; Derek Mitchell, Stupski Foundation; Gloria Gonzalez, University of California, Los Angeles

11:55 a.m. Disc: Ivan P. Fellegi, Statistics Canada

12:15 p.m. Floor Discussion

395

 Mighty Nonparametrics—Invited Noether Award Committee, General Methodology

Organizer(s): James Higgins, Kansas State University

Chair(s): James Higgins, Kansas State University

10:35 a.m. Nonparametric Modeling for Classification of High-Dimensional Data and Multiple Hypothesis **Testing**—**♦** Peter Hall, The University of

Melbourne

Nonparametric Hierarchical Models— Ciprian 11:20 a.m. M. Crainiceanu, The Johns Hopkins University

Floor Discussion 12:05 p.m.

CC-355 E

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

396 CC-150 D-F

Statistical Models and Methods for Microarray Data—Invited

IMS, Biometrics Section, Biopharmaceutical Section, WNAR Organizer(s): Cun-Hui Zhang, Rutgers University Chair(s): Cun-Hui Zhang, Rutgers University

10:35 a.m. Inferences on the Proportion of Non-Null Effects in Large-Scale Multiple Comparisons—* Jiashun Jin, Purdue University

11:05 a.m. Epigenomics: Some Statistical Applications—Rafael Irizarry, Johns Hopkins Bloomberg School of Public Health

11:35 a.m. Simultaneous Subset Selection via Rate-Distortion Theory with Applications to Clustering and Significance Analysis of Gene Expression Data—

*Rebecka Jornsten, Rutgers University

12:05 p.m. Floor Discussion

397 CC-155 A

Causal Methods: Advances and Applications in Health—Invited

Section on Health Policy Statistics, Section on Statistics in Epidemiology, Section on Teaching Statistics in the Health Sciences, WNAR

Organizer(s): Amelia Haviland, RAND Corporation

Chair(s): Jason Connor, Berry Consultants

11:00 a.m. Causal Inference of Nonrandomized Treatment Effects— & Heejung Bang, Cornell University; Yolanda Barrón, Cornell University

11:25 a.m. Dealing with Control Group Drop-Out: Using
Historical Patient Information to Supplement a
Randomized Trial—*Elizabeth A. Stuart, Johns
Hopkins Bloomberg School of Public Health;
Donald B. Rubin, Harvard University; Samantha
Cook, Google

11:50 a.m. Propensity Scores and Multiple Treatments: An Application to Beneficiary Evaluations from the Medicare CAHPS Surveys— Marc N. Elliott, RAND Corporation; Amelia Haviland, RAND

Corporation 12:15 p.m. **Floor Discussion**

array

398 CC-155 F

New Developments on Quantile Regression— Invited

IMS

Organizer(s): Xuming He, University of Illinois Chair(s): Stephen Portnoy, University of Illinois

10:35 a.m. Bayesian Model-Based Approaches to Semiparametric and Nonparametric Quantile Regression—* Athanasios Kottas, University of California, Santa Cruz; Milovan Krnjajic, Lawrence Livermore National Laboratory; Matthew Taddy, University of California, Santa Cruz

11:00 a.m. Some Recent Advances in Computing Regularized

Quantile Regression Models—* Ji Zhu, University

of Michigan

11:25 a.m. Learnability and Robustness of Nonparametric
Quantile Regression—*Andreas Christmann,
Free University of Brussels VUB; Ingo Steinwart,
Los Alamos National Laboratory

11:50 a.m. Conditional Quantile Estimation for GARCH Models—& Zhijie Xiao, Boston College

12:15 p.m. Floor Discussion

399 CC-Ballroom B Wald Lecture II—Invited

IMS, General Methodology, Section on Bayesian Statistical Science

Organizer(s): Tony Cai, University of Pennsylvania

Chair(s): Luis R. Pericchi, University of Puerto Rico, San Juan

10:35 a.m. Model Selection: Multiplicities and Approximations—* James Berger, Duke

University

11:40 a.m. Disc: Susie Bayarri, University of Valencia

12:00 p.m. Floor Discussion

400 CC-355 B

Frailty Models for Survival Analysis—Invited

Biometrics Section, ENAR, Section on Risk Analysis

Organizer(s): Xuelin Huang, The University of Texas M. D. Anderson Cancer Center

Chair(s): Lei Liu, University of Virginia

10:35 a.m. Semiparametric Approaches for the Analysis of Multilevel Failure Time Data—* Joanna H. Shih, National Cancer Institute; Shou-En Lu, University

of Medicine and Dentistry of New Jersey

GA-The Grand America Hotel Applied Session Presenter CC-Salt Palace Convention Center Themed Session

Frailty Models for Survival Data with Informative 11:00 a.m. **Censoring**— * Xuelin Huang, The University of Texas M. D. Anderson Cancer Center; Robert Wolfe, University of Michigan; Lei Liu, University of Virginia

11:25 a.m. Goodness-of-Fit for Frailty Models— & John Klein, Medical College of Wisconsin

11:50 a.m. Disc: Michael Kosorok, The University of North Carolina at Chapel Hill

12:10 p.m. Floor Discussion

401 CC-150 G

Remote Sensing in Environmental Statistics— Invited

Section on Statistics and the Environment, Section on Statisticians in Defense and National Security

Organizer(s): Tao Shi, The Ohio State University Chair(s): Tao Shi, The Ohio State University

10:35 a.m. Markov Random Fields, Remote Sensing, and Predicting Crop Yields— Stephan Sain, National Center for Atmospheric Research

10:55 a.m. Nonstationary Covariance Models for TOMS Ozone Data— Mikyoung Jun, Texas A&M University

11:15 a.m. **Understanding Large-Scale Structure in Massive** Remote-Sensing Datasets— Amy Braverman,

Jet Propulsion Laboratory

11:35 a.m. Space-Time Modeling of Biomass Burning and Regional Aerosols in Southeast Asia— Catherine A. Calder, The Ohio State University; Tao Shi,

The Ohio State University

11:55 a.m. Disc: Eric D. Kolaczyk, Boston University 12:05 p.m. Disc: Bin Yu, University of California, Berkeley

12:15 p.m. Floor Discussion

402 CC-251 A

Applications in Computational Biostatistics— Invited

Section on Statistical Computing, ENAR

Organizer(s): Yasmin H. Said, George Mason University

Chair(s): Yasmin H. Said, George Mason University

Application of the State-Space Modeling Paradigm 10:35 a.m. in Neuroscience Data Analysis—Emery N. Brown.

Massachusetts General Hospital; & Uri Eden,

Boston University

The Use of Distances in Surveillance— * Marcello 11:05 a.m.

Pagano, Harvard University

11:35 a.m. Assessing Interventions Related to HIV Incidents Under the Influence of Ethanol—Yasmin H. Said, George Mason University; & Edward Wegman,

George Mason University

12:05 p.m. Floor Discussion

403 CC-255 E

Advances in Statistical Quality Improvement—

Section on Quality and Productivity, Section on Physical and **Engineering Sciences**

Organizer(s): Joe Sullivan, Mississippi State University

Chair(s): Joe Sullivan, Mississippi State University

10:35 a.m. **Bayesian Modeling of Accelerated Life Tests with** Random Effects—Ramon V. Leon, University of Tennessee; *Avery J. Ashby, BlueCross

BlueShield of Tennessee

11:00 a.m. A Control Chart for the Coefficient of Variation— Chang W. Kang, Hanyang University; Man S. Lee, LG Philips LCD; Young J. Seong, Gyenggi Research Institute; Douglas M. Hawkins, The University of Minnesota

11:25 a.m. An Optimal Filter Design Approach to Statistical Process Control— Daniel W. Apley, Northwestern University; Chang-Ho Chin, Kyung Hee University

11:50 a.m. The Rate of False Signals in X-bar Control Charts with Estimated Limits— Diane P. Bischak, University of Calgary; Dan Trietsch, American University of Armenia

12:15 p.m. Floor Discussion

CC-150 A-C 404 2007 ASA Educational Ambassadorship—Invited

Committee on International Relations in Statistics Organizer(s): Demissie Alemayehu, Pfizer Inc.

Chair(s): Martha Aliaga, American Statistical Association 10:35 a.m. Challenges with Statistical Education in Developing

Countries: A Case Study— & Eshetu Wencheko,

Alpha University College

Floor Discussion 12:00 p.m.

Applied Session

Presenter

CC-Salt Palace Convention Center

11:15 a.m.

GA-The Grand America Hotel

Invited Panels 10:30 a.m.-12:20 p.m.

405 CC-255 B

Estimating Nonresponse Bias in Light of the New OMB Standards and Guidelines for Statistical Surveys—Invited

Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section

Organizer(s): Roberta Sangster, Bureau of Labor Statistics Chair(s): Michael P. Battaglia, Abt Associates, Inc.

Panelists:

- * J. Michael Brick, Westat
- Robert M. Groves, University of Michigan
- Brian Harris-Kojetin, Office of Management and Budget

12:15 p.m. Floor Discussion

406 CC-251 E

The 20/20 of Statistical Education-Where We've Been and Where We're Going—Invited

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Patti Collings, Brigham Young University

Chair(s): Brad Hartlaub, Kenyon College

Panelists:

- ❖ Jeff Witmer, Oberlin College
- Allan Rossman, California Polytechnic State University
- Jessica Utts, University of California, Davis
- George Cobb, Mount Holyoke College

12:15 p.m. Floor Discussion

Topic-Contributed Sessions 10:30 a.m.-12:20 p.m.

407 CC-250 A

Seasonality and Statistics in Finance—Topic-Contributed

Business and Economics Statistics Section

Organizer(s): Tucker S. McElroy, U.S. Census Bureau; Rituparna Sen, University of California, Davis

Chair(s): Tucker S. McElroy, U.S. Census Bureau

10:35 a.m. Seasonal Heteroscedasticity in Time Series:

Modeling, Estimation, and Testing— *William R. Bell, U.S. Census Bureau; Thomas M. Trimbur,

Federal Reserve Board

10:55 a.m. A Local Goodness-of-Fit Diagnostic Based on the Log Determinant of the Sample Covariance Matrix—Tucker S. McElroy, U.S. Census Bureau;

Scott Holan, University of Missouri-Columbia

Modeling Assumptions?— Pringying Li, The University of Chicago; Per A. Mykland, The

Are Volatility Estimators Robust with Respect to

University of Chicago

11:35 a.m. Covariance Estimation for Nonsynchronous

High-Frequency Data with Microstructure Noise—

❖ Qiuyan Xu, University of California, Davis;
Rituparna Sen, University of California, Davis

11:55 a.m. On Diagnostic Checking for Mixture Autoregressive

Time Series—❖Qin Shao, University of Toledo

12:15 p.m. Floor Discussion

408 CC-255 A

● ② Interacting with the FDA in Medical Device Pre-Market Applications: From Pre-IDE to PMA Submission—Topic-Contributed

Biopharmaceutical Section, WNAR

Organizer(s): Lilly Yue, U.S. Food and Drug Administration Chair(s): Yao Huang, U.S. Food and Drug Administration

10:35 a.m. Challenges in Trial Design for the Next Generation Drug-Eluting Stents—& Zheng Zhou, Boston Scientific Corporation; Peter Lam, Boston

Scientific Corporation

10:55 a.m. Pre-PMA Meetings with the FDA in Medical Device

Submissions—Greg Campbell, U.S. Food and Drug Administration; Gerry Gray, U.S. Food and Drug Administration; & Lilly Yue, U.S. Food and

Drug Administration

11:15 a.m. Some Thoughts on the Variables in

Communications on Medical Device Studies
Between the Sponsor and the FDA from the View
of the Statistical Consultant—& Dennis King,

STATKING Consulting, Inc.

11:35 a.m. One Statistician's Thoughts on Nonstatistical

Issues That Affect Statistical Considerations in Medical Device Studies— Alicia Toledano,

Biostatistics Consulting, LLC

11:55 a.m. Disc: Greg Campbell, U.S. Food and Drug

Administration

12:15 p.m. Floor Discussion

CC-250 EF

409

CC-255 C

Topics in Crossover Trial Design and Analysis— **Topic-Contributed**

Biopharmaceutical Section, WNAR, Section on Statistical Consulting, ENAR Organizer(s): Mary Putt, University of Pennsylvania Chair(s): Mary Putt, University of Pennsylvania

Carryover Effects in Crossover Designs—* John 10:35 a.m. Stufken, University of Georgia

10:55 a.m. Optimal and Efficient Crossover Designs for Comparing Test Treatments to a Control Treatment **Under Various Models**—**♦** Min Yang, University of Missouri-Columbia; John Stufken, University of Georgia

11:15 a.m. Optimal Crossover Designs: Investigating the Role of Baseline Measurements— *Yuanyuan Liang, University of Alberta; Kimmie C. Carriere, University of Alberta

11:35 a.m. A Robust Bayesian Analysis of a Crossover Trial in Smoking Cessation— Pulak Ghosh, Georgia State University; Mary Putt, University of

Pennsylvania

11:55 a.m. Disc: Vernon Chinchilli, The Pennsylvania State

University

12:15 p.m. Floor Discussion

410

Bayesian Applications Using Structured Stochastic Models—Topic-Contributed

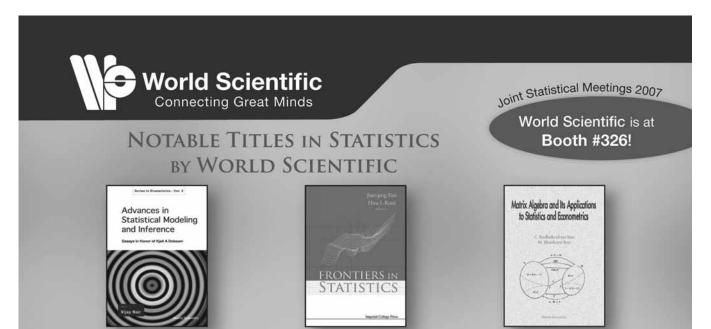
Section on Bayesian Statistical Science

Organizer(s): Marco Ferreira, University of Missouri-Columbia Chair(s): Ana Rappold, Duke University

Evolutionary Markov Chain Monte Carlo Algorithms 10:35 a.m.

for Expected Utility Maximization— * Marco Ferreira, University of Missouri-Columbia; Ramiro Ruiz, Universidade Federal do Rio de Janeiro: Alexandra Schmidt, Universidade

Federal do Rio de Janeiro



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Themed	Session

Applied Session

Presenter

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10:55 a.m. Bayesian Analysis of Inverse Gaussian Models for Response Time— Paul Speckman, University of Missouri-Columbia; Yue Yu, University of Missouri-Columbia; Jeffrey Rouder, University of Missouri-Columbia High-Resolution Space-Time Ozone Modeling for 11:15 a.m. Assessing Trends— Sujit Sahu, University of Southampton 11:35 a.m. Bayesian Model Selection by Smoothly Clipped Continuous Priors— Sounak Chakraborty, University of Missouri-Columbia 11:55 a.m. A Reference Prior for AR(2) Models— Shawn Ni, University of Missouri-Columbia; Dongchu Sun, University of Missouri-Columbia 12:15 p.m. Floor Discussion

411 CC-250 C

◆ Image Analysis in Solar and Astrophysics— Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): David van Dyk, University of California, Irvine; Thomas C.M. Lee, The Chinese University of Hong Kong; Yaming Yu, University of California, Irvine

Chair(s): Yaming Yu, University of California, Irvine

10:35 a.m. Astronomical Imaging Using the GLAST Large-Area Telescope—* James Chiang, Stanford University
 10:55 a.m. Fully Bayesian Analysis of Low-Count Astronomical Images—* David van Dyk, University of California, Irvine; Alanna Connors, Eurika Scientific
 11:15 a.m. Multiscale Solar Image Processing—* C. Alex Young, National Aeronautics and Space Administration; Jack Ireland, ADNET Systems, Inc.; R. T. James McAteer, Catholic University

11:35 a.m. Automatic Detection and Classification of Sunspot Images—* Thomas C.M. Lee, The Chinese

University of Hong Kong; C. Alex Young, National Aeronautics and Space Administration

of America; Peter T. Gallagher, Trinity College

11:55 a.m. How to Find Loops in the Solar Corona— Vinay L. Kashyap, Harvard-Smithsonian Center for Astrophysics; Julia Sandell, Barnard College;

Thomas C.M. Lee, The Chinese University of Hong Kong

12:15 p.m. Floor Discussion

Dublin

412 CC-251 B

◆ Applications of Nonparametric Smoothing to Spatial and Temporal Data—Topic-Contributed

Section on Nonparametric Statistics, ENAR

Organizer(s): Lijian Yang, Michigan State University

Chair(s): Lijian Yang, Michigan State University

10:35 a.m. Generalized Semiparametric Linear Mixed Effects Models—* Tatiyana Apanasovich, Cornell University

10:55 a.m. Nonparametric Transfer Function Models: A
Polynomial Spline Approach—* Jun Liu, Georgia
Southern University; Jing Wang, University of

Illinois at Chicago

11:15 a.m. Kernel Estimation of Multivariate Cumulative
Distribution Function— Rong Liu, Michigan State
University; Lijian Yang, Michigan State University

11:35 a.m. Disc: Jane Harvill, Baylor University

11:55 a.m. Floor Discussion

413 CC-254 B

The Statistician's Contribution to Fact-Finding in Law—Topic-Contributed

Section on Statistical Consulting

Organizer(s): William B. Fairley, Analysis and Inference, Inc.

Chair(s): Alan J. Izenman, Temple University

10:35 a.m. Proof of Changepoints in Securities Prices
Litigation: Use and Misuse of Event History
Analysis— *Kenneth Swartz, Analysis and
Inference, Inc.; Yulia R. Gel, University
of Waterloo; R. Alan Miller, Philadelphia
Investment Bank; William B. Fairley, Analysis
and Inference, Inc.

10:55 a.m. Bagging and Propensity Scores in Statistical Learning to Assign Ownership of Unclaimed Property—*Marc Sobel, Temple University/Analysis and Inference, Inc.; Kenneth Swartz,

Analysis and Inference, Inc.

11:15 a.m. Resolving a Multimillion Dollar Contract Dispute with a Latin Square Design— Steven Crunk, San Jose State University; William B. Fairley, Analysis and Inference, Inc.; Marian Hofer, California State University, East Bay; Peter J. Kempthorne, Kempthorne Analytics, Inc.

11:35 a.m. Statistical Assessment of the Fairness of a Firm's Allocation of Shares in Initial Public Offerings—

Efstathia Bura, George Washington University

11:55 a.m. Disc: William B. Fairley, Analysis and Inference, Inc.

12:15 p.m. Floor Discussion

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Applied Session

Presenter

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414 CC-155 B

Use of Measures Related to the Survey Variables in Post-Survey Adjustment for Nonresponse—Topic-Contributed

Section on Survey Research Methods, Social Statistics Section Organizer(s): Andy Peytchev, RTI International Chair(s): Kristen Olson, University of Michigan

10:35 a.m. Preliminary Assessment of the Impact of Health Variables on Nonresponse Adjustment in the Medical Expenditure Panel Survey (MEPS)—
 Trena Ezzati-Rice, Agency for Healthcare Research and Quality; Lap-Ming Wun, Agency for Healthcare Research and Quality

10:55 a.m. Using Interviewer Observations To Improve
Nonresponse Adjustments: NES 2004—* Andy
Peytchev, RTI International; Kristen Olson,
University of Michigan

11:15 a.m. Use of Interviewer Judgments About Attributes of Selected Respondents in Post-Survey Adjustment for Unit Nonresponse: An Illustration with the National Survey of Family Growth—Robert M. Groves, University of Michigan; James Wagner, University of Michigan; & Emilia Peytcheva, University of Michigan

11:35 a.m. Using Proxy Measures of Survey Outcomes in Post-Survey Adjustments: Examples from the Consumer Expenditure Survey (CES) and the Los Angeles Neighborhood Observations Study (LA FANS)—& Frauke Kreuter, University of Maryland; Carolina Casas-Cordero, University of Maryland

11:55 a.m. Using Proxy Measures of the Survey Variables in Post-Survey Adjustments in a Transportation Survey— Ting Yan, University of Michigan; Trivellore E. Raghunathan, University of Michigan

12:15 p.m. Floor Discussion

415 CC-254 A

◆ Computationally Intensive Methods in AIDS Research I—Topic-Contributed

WNAR, Biometrics Section, ENAR, Section on Health Policy Statistics, Section on Statistics in Epidemiology

Organizer(s): Lilit Yeghiazarian, University of California, Los Angeles Chair(s): Mark S. Handcock, University of Washington

10:35 a.m. Mathematical Modeling and Statistical Methods for AIDS Translational Research from Benchside to Bedside—*Hulin Wu, University of Rochester

10:55 a.m. A Multiscale Model of HIV Dynamics Linking In-Host Processes with Virus Spread in Human Populations—❖ Lilit Yeghiazarian, University of California, Los Angeles; William G. Cumberland, University of California, Los Angeles; Otto Yang, University of California, Los Angeles

11:15 a.m. A Stochastic Model of HIV Escape from the
Cytotoxic T Lymphocyte Response—* Elissa
Schwartz, Washington State University; Lisette
G. De Pillis, Harvey Mudd College; William
G. Cumberland, University of California, Los
Angeles; Otto Yang, University of California,
Los Angeles

11:35 a.m. Application of a Model with Two Types of CTL Regulation to Shiv Vaccination Trials—*Igor Rouzine, Tufts University

11:55 a.m. Two-Way Hierarchical Phylogenetic Models: An Application to HIV-1 Evolution During Fusion Inhibitor Therapy—& Christina Ramirez Kitchen, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles

12:15 p.m. Floor Discussion

Contributed Sessions 10:30 a.m.-12:20 p.m.

416 CC-260

ullet Gene Expression and Genomics—Contributed

Biometrics Section

Chair(s): Brian S. Caffo, Johns Hopkins Bloomberg School of Public Health

10:35 a.m. Genome Phylogeny Accommodating Lateral Gene Transfer— & Hongmei Zhang, University of West Florida; Rohan Hemasinha, University of West Florida; Xun Gu, Iowa State University

10:50 a.m. A Simulation Study of the Operating Characteristics of Statistical Analysis Plans for Genome-Wide Association Studies—* John Barnard, The Cleveland Clinic

11:05 a.m. Analyzing Data from Gene Expression in Neuronal Activity— * Xiaofeng Wang, The Cleveland Clinic

 Themed Session
 ◆ Applied Session
 ❖ Presenter
 CC-Salt Palace Convention Center
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11:35 a.m. Gene-Gene and Gene-Environment Interactions for Complex Traits—*Qinyi Cheng, New York University; Mengling Liu, New York University; Yongzhao Shao, New York University

12:05 p.m. Floor Discussion

417 CC-257

◆ Applications of Semiparametric and Nonparametric Modeling Techniques—Contributed

Biometrics Section, Section on Nonparametric Statistics

Chair(s): Chunming Zhang, University of Wisconsin-Madison

10:35 a.m. Weighted Fourier Series Analysis of Anatomical Brain Structures— Shubing Wang, University of Wisconsin-Madison

10:50 a.m. A Semiparametric Empirical Likelihood Method for ROC Curve Regression of Ordinal Diagnostic Test in the Presence of Verification Bias—* Xiaofei Wang, Duke University; Haibo Zhou, The University of North Carolina at Chapel Hill

11:05 a.m. A Novel Wavelet Approach for Denoising Mass Spectrometry Data—* Jaesik Jeong, Texas A&M University

11:20 a.m. Nonparametric Quantification of Protein Lysate
Arrays—* Jianhua Hu, The University of Texas
M. D. Anderson Cancer Center

11:35 a.m. Semiparametric Two-Sample Changepoint

Model—*Zonghui Hu, National Institutes of
Health; Jing Qin, National Institutes of Health;
Dean Follmann, National Institute of Allergy
and Infectious Diseases

11:50 a.m. Double Nonparametric Estimation for Relating
 Dose Distributions to Scalar Outcomes—
 * Matthew Schipper, University of Michigan;
 Jeremy Taylor, University of Michigan

12:05 p.m. Asymptotic Theories in Multiple-Sample
Semiparametric Density Ratio Models—

*Guanhua Lu, University of Maryland;
Benjamin Kedem, University of Maryland

418 CC-355 C

◆ Adaptive Group Sequential Designs in Drug and Vaccine Development—Contributed

Biopharmaceutical Section

Chair(s): Naitee Ting, Pfizer Inc.

10:35 a.m. A Hybridized Two-Stage Design in an Ulcerative Colitis Pivotal Trial—& Guohui Liu, Millennium Pharmaceuticals, Inc.; Mingxiu Hu, Millennium Pharmaceuticals, Inc.

10:50 a.m. Multiplicity Adjustment for Testing of Multiple Endpoints in Group Sequential Study Design—

*Jianming Wang, Amgen Inc.; Xiang Zhang, Amgen Inc.; Chunlei Ke, Amgen Inc.

11:05 a.m. Self-Designing Multiple Dose Study via Adaptive Randomization—* Lin Wang, sanofi-aventis; Lu Cui, Eisai Medical Research Inc.

11:20 a.m. Estimation Following an Adaptive Group Sequential Test— Cyrus Mehta, Cytel Inc.

11:35 a.m. A Supremum Log-Rank Test for Adaptive Two-Stage Treatment Strategies and Corresponding Sample Size Formula— Wentao Feng, University of Pittsburgh; Abdus S. Wahed, University of Pittsburgh

11:50 a.m. Sample Size Re-estimation for Adaptive Sequential Design in Clinical Trials—& Ping Gao, The Medicines Company; James H. Ware, Harvard University

12:05 p.m. On Group Sequential Adaptations in Vaccine Development— William Wang, Merck & Co., Inc.; Ivan Chan, Merck & Co., Inc.; Joseph Heyse, Merck & Co., Inc.

419 CC-255 D

General Statistical Issues and the Role of Statisticians in Medical Research—Contributed

Biopharmaceutical Section, Biometrics Section *Chair(s): Xiaolei Li, GlaxoSmithKline*

10:35 a.m. The Role of the Statistician in Biomedical Research: Scientist, Shoe Clerk, or Hired Gun—

*Anthony Segreti, RTI Health Solutions

10:50 a.m. Comparison of Predictive Values of Two Diagnostic Tests Using Conditional Model—* Yoonjin Cho, North Carolina State University; Andrzej S. Kosinski, Duke University

11:05 a.m. Statistical Performance of Cladistic Strategies for Haplotype Grouping in Pharmacogenetics—

* Jared Lunceford, Merck & Co., Inc.; Nancy Liu, Merck & Co., Inc.

General I	Program Schedule
0	Themed Session • Applied Session • Presenter
11:20 a.m.	Statistics in Translational Medicine—*Dennis Cosmatos, Wyeth; Shein-Chung Chow, Duke University
11:35 a.m.	Working for a Medical Device Company versus a Pharmaceutical Firm—* Yanping Chang, Medtronic Inc.
11:50 a.m.	Assessment of the Placebo Effect in Quality-of- Life Evaluations—* Jens Eickhoff, University of Wisconsin-Madison
12:05 p.m.	On Errors in Stratifications—& Chunlei Ke, Amgen Inc.; Jianming Wang, Amgen Inc.; Xiang Zhang, Amgen Inc.; Qi Jiang, Amgen Inc.; Alan Rong, Amgen Inc.; Steven Snapinn, Amgen Inc.
	CC-355 A ods for Survival Analysis—Contributed
	on Risk Analysis
Chair(s): Barl	para Bailey, San Diego State University
10:35 a.m.	Application of Survival Models to Vaccine Efficacy Evaluation— & Barbara Krasnicka, U.S. Food and Drug Administration; Sang Ahnn, U.S. Food and Drug Administration
10:50 a.m.	An Adjusted Cumulative Incidence Function Estimator for Unbalanced Groups—& Yongyun Zhao, University of Pittsburgh; Chung-Chou H. Chang, University of Pittsburgh
11:05 a.m.	Robust Estimation in the Presence of Extreme Censoring—*Ruta Bajorunaite, Marquette University; Vytaras Brazauskas, University of Wisconsin-Milwaukee
11:20 a.m.	Methods for Cox Regression with Nonclassical Measurement Error in the Covariates with an Application to Nutritional Epidemiology—& Pamela A. Shaw, National Institutes of Health; Ross L. Prentice, Fred Hutchinson Cancer Research Center
11:35 a.m.	Modeling Associations via Incidence Functions with Bivariate Competing Risks Data—*Yu

Cheng, University of Pittsburgh; Jason Fine,

A Generalized Bivariate Gamma Distribution and Its Characterization— Norou Diawara, Old Dominion University; Mark Carpenter, Auburn

A Taxonomy of Hazards for the Generalized Gamma Distribution— Christopher Cox, Johns Hopkins Bloomberg School of Public Health; Haitao Chu, Johns Hopkins Bloomberg School of Public

University of Wisconsin-Madison

Health; Michael Schneider, Johns Hopkins Bloomberg School of Public Health; Alvaro Munoz, Johns Hopkins Bloomberg School of Public Health

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421 CC-250 B

Bayesian Applications in Genomics— Contributed

Section on Bayesian Statistical Science Chair(s): Faming Liang, Texas A&M University

CC-Salt Palace Convention Center

10:35 a.m. Bayesian Pathway Annotation Analysis of Genomewide Expression Profiles—❖ Haige Shen, Duke University; Mike West, Duke University

10:50 a.m. A Bayesian Approach to Pool Multiple Datasets for Periodically Expressed Genes Detection— *Xiaodan Fan, Harvard University; Jun S. Liu, Harvard University

11:05 a.m. Bayesian Nonparametric Clustering of Amino Acid Usage Profiles— Daniel Merl, Cornell University

11:20 a.m. A Fast Bayesian Method for eQTL Linkage Analysis in Experimental Crosses—& Jinze Liu, The University of North Carolina at Chapel Hill; Fred Wright, The University of North Carolina at Chapel Hill; Fei Zou, The University of North Carolina at Chapel Hill; Yu-Ling Chang, The University of North Carolina at Chapel Hill

11:35 a.m. Bayesian Variogram Modeling in a Metric Space— *Yan Zheng, sanofi-aventis; Cavan Reilly, The University of Minnesota

11:50 a.m. A Bayesian Model for Genetic Association with Phenotype Defined in a Limited Range— Ling Wang, Boston University; Vikki Nolan, Boston University; Clinton Baldwin, Boston University; Martin Steinberg, Boston University; Paola Sebastiani, Boston University

12:05 p.m. Two-Way Clustering of DNA Microarray Data Using the Bayesian Plaid Model—*Jiajun Gu, Harvard University; Jun Gu, Harvard University

University

11:50 a.m.

12:05 p.m.

422 CC-255 F 11:35 a.m. A Stationary Stochastic Approximation Algorithm for Estimation in Generalized Linear Mixed Design and Analysis of Experiments— Models—❖ Sheng-Mao Chang, North Carolina Contributed State University; John F. Monahan, North Section on Physical and Engineering Sciences, Section on Quality and Carolina State University Productivity 11:50 a.m. **Generalized Estimating Equations for Nonlinear** Chair(s): Charmaine Dean, Simon Fraser University Mixed Effect Model—❖ Lawrence Lee, University 10:35 a.m. Nested Space-Filling Designs for Experiments with of California, Davis; Jiming Jiang, University of Multiple Levels of Accuracy— * Zhiguang Qian, California, Davis University of Wisconsin-Madison 12:05 p.m. Floor Discussion 10:50 a.m. Mixed Effects Models for Prediction of Tool Wear— Arzu Onar, St. Jude Children's Research Hospital CC-251 D Geometric Equivalence of Symmetric Factorial 424 11:05 a.m. Designs— Tena Katsaounis, The Ohio State • Surveillance, Identity, and Other Issues in University; Angela Dean, The Ohio State **Defense Statistics—Contributed** University; Cheryl Dingus, Battelle Section on Statisticians in Defense and National Security 11:20 a.m. Comparison of Slack Variable and Mixture Chair(s): Pranab Banerjee, Space Dynamics Laboratory Approaches for Mixture Experiments— Greg Military Requirements Forecasting: A Reliability-10:35 a.m. Piepel, Battelle/PNNL **Based Approach**—❖ Dennis Mathaisel, Babson 11:35 a.m. Optimal Foldovers of Minimum Aberration Even College **Designs**— Robert W. Mee, University of 10:50 a.m. An Optimization Approach for Identity Matching Tennessee: Jihua Xiao, University of Tennessee in the Federal Sector— * David Lloyd, MITRE A Class of Optimal Three-Level Response Surface 11:50 a.m. Corporation; Keith Miller, MITRE Corporation Designs— William Li, The University of 11:05 a.m. Addressing the Problem of Data Scarceness Minnesota; Xuan Lu, Tsinghua University in Risk Analysis with Hierarchical Coordinated 12:05 p.m. **Projection Properties of Hadamard Designs and** Bayesian Models—* Zhenyu Yan, University of Their Application—❖ Yingfu Li, University of Virginia; Yacov Y. Haimes, University of Virginia Houston-Clear Lake An Environmental Sampling Model for 11:20 a.m. Combining Judgment and Randomly Placed CC-251 C Samples— Landon Sego, Pacific Northwest 423 National Laboratory; Anderson Kevin, Pacific **Estimation—Contributed** Northwest National Laboratory; Brett Matzke, IMS, Section on Statistical Computing Pacific Northwest National Laboratory; Chair(s): Daryl Pregibon, Google Brent Pulsipher, Pacific Northwest National 10:35 a.m. A Generalized P-Value Approach to Inference on Laboratory; William K. Sieber, National Common Mean— Pranab K. Mitra, Bristol-Institute for Occupational Safety and Health; Myers Squibb Company Stanley Shulman, National Institute for Implementation of an Extended Familial Correlation 10:50 a.m. Occupational Safety and Health; Matt Gillen, Structure with Quasi-Least Squares— Jichun National Institute for Occupational Safety and Xie, University of Pennsylvania; Justine Shults, Health; James Bennett, National Institute for University of Pennsylvania Occupational Safety and Health; Wilson John, Pacific Northwest National Laboratory; Richard 11:05 a.m. On the Asymptotic Properties of the Signed Gilbert, Pacific Northwest National Laboratory Composite Likelihood Ratio Statistic— * Zi Jin, **Unveiling Significant Patterns in High-Speed** University of Toronto; Nancy Reid, University of 11:35 a.m. Toronto Networks—* Jin Cao, Bell Labs; Tian Bu, Bell

Preferred Distribution Function for Estimating

View A&M University

P(Y < X)—♦ Mohammed A. Shayib, Prairie View A&M University; Aliakbar Haghighi, Prairie

11:20 a.m.

Labs; Aiyou Chen, Alcatel-Lucent; Patrick Lee,

Columbia University

Floor Discussion

11:50 a.m.

Applied Session

Presenter

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425 CC-250 D Modeling and Evaluating Customer Behavior—

ContributedSection on Statistics and Marketing

Chair(s): Peter Boatwright, Carnegie Mellon University

10:35 a.m. A Bayesian Approach for the Multidimensional Scaling of Ordered Preference Data—*Duncan K.H. Fong, The Pennsylvania State University

10:50 a.m. Quantifying the Indirect Effects of a Marketing Contact— Dingxi Qiu, Northwestern University; Edward C. Malthouse, Northwestern University; Ajit Tamhane, Northwestern University

11:05 a.m. Development of Personal Proposals from Financial Institutes During Interactive Real-Time Browsing of Potential Clients—& Hye-Kyoung Kim, Intellidyn Corp.; Dmitri Kuznetsov, Intellidyn Corp.; Peter E. Harvey, Intellidyn Corp.

11:35 a.m. **Dynamics of Opinion Spreading in Marketing**—

 $\ \ \, \diamondsuit$ Dmitri Kuznetsov, Intellidyn Corp.

12:05 p.m. Evaluating Database Marketing Models: More
Than Meets the Eye— Samuel Koslowsky, Harte
Hanks Analytics

426 CC-254 C

Correlated Data Methods and Analyses in Epidemiology—Contributed

Section on Statistics in Epidemiology, Section on Teaching Statistics in the Health Sciences, Section on Health Policy Statistics

Chair(s): Alula Hadgu, Centers for Disease Control and Prevention

10:35 a.m. Analysis of Smoking Cessation Patterns Using a Stochastic Mixed Effects Model with a Latent Cured State—❖ Sheng Luo, The Johns Hopkins University; Ciprian M. Crainiceanu, The Johns Hopkins University; Thomas A. Louis, The Johns Hopkins University; Nilanjan Chatterjee, National Cancer Institute

10:50 a.m. Assessing Baseline and Post-Baseline Effects in Repeated Measures Data Analyses: An Example Using Smoking Cessation Data—*Xiaolei

Zhou, RTI International; Beth Sherrill, RTI International; Jianmin Wang, RTI Health Solutions

11:05 a.m. Systolic Blood Pressure in Childhood Predicts
Hypertension and Metabolic Syndrome Later in
Life—* Shumei Sun, Wright State University;
Ruohong Liang, Wright State University

11:20 a.m. Modeling Correlated Longitudinal Processes with Some Processes Partially Observed—*Qilu Yu, The Johns Hopkins University; Laurel Beckett, University of California, Davis; David Bennett, Rush University; Robert Wilson, Rush University

11:50 a.m. Regression Analysis of Multivariate Panel
Count Data—*Xin He, University of MissouriColumbia; Xingwei Tong, Beijing Normal
University; Jianguo Sun, University of MissouriColumbia; Richard J. Cook, University of Waterloo

12:05 p.m. Analysis of Recurrent Event Data in Case-Crossover Studies—* Xianghua Luo, The University of Minnesota; Chiung-Yu Huang, National Institutes of Health; Gary S. Sorock, Johns Hopkins Bloomberg School of Public Health

427 CC-155 C

Topics in Confidence Intervals and Inference— Contributed

Section on Survey Research Methods

Chair(s): Jill Dever, University of Maryland

10:35 a.m. Parametric Bootstrap Confidence Interval in a Small-Area Estimation Problem—& Huilin Li, University of Maryland; Partha Lahiri, University of Maryland

10:50 a.m. Setting Precision Requirements for Estimating Proportions—* James R. Chromy, RTI International

11:05 a.m. Confidence Intervals for Statistics for Categorical Variables from Complex Samples—* Valerie Hsu, Westat; Keith Rust, Westat

11:20 a.m. One-Sided Coverage Intervals for the Extreme Binomial Proportion Under Complex Sample Design—& Yan Liu, Internal Revenue Service; Phillip S. Kott, USDA National Agricultural Statistics Service

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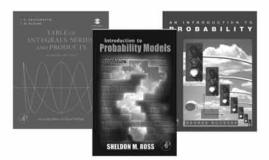






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\	General Program Schedule				
		◆ Themed Session	 Applied Session 	Presente	
	11:35 a.m.	Intervals for Exp Expenditure Par Agency for Hea	Empirical Bayesian penditure Data in the nel Survey— Robe althcare Research a University of Florid	Medical rt Baskin, nd Quality;	
	11:50 a.m.	Criteria To Best	y Data Products and Match Customers' R dy Webb, Arbitron n, Inc.	Revenue	
	12:05 p.m.	a Best Linear U	e Combined Ratio Es nbiased Estimator W ematic—&Stephen	hen Design	
	428			CC-155	
	Analysis Contribu		e of Survey Data	_	
		Survey Research Meth			
	Chair(s): Ka	ırol Krotki, RTI Inter	rnational		
	10:35 a.m.	the Continuous Examination Su	ation for a Single St National Health and rvey (NHANES)—* at; Jay Clark, Westa	Nutrition R. Lee	

	Needs—& Mandy Webb, Arbitron Inc.; Alan R. Tupek, Arbitron, Inc.
12:05 p.m.	Properties of the Combined Ratio Estimator and a Best Linear Unbiased Estimator When Design Control Is Problematic— Stephen Woodruff, Retired
428	CC-155 E
Analysis a	and Disclosure of Survey Data—
	rvey Research Methods
	ol Krotki, RTI International
10:35 a.m.	Multiyear Estimation for a Single Stratum from the Continuous National Health and Nutrition Examination Survey (NHANES)—*R. Lee Harding, Westat; Jay Clark, Westat; Jill M. Montaquila, Westat
10:50 a.m.	The Effectiveness of Stepwise Discriminate Analysis as a Post Hoc Procedure to a Significant Manova—& Erik Heiny, Western Carolina University
11:05 a.m.	Researcher Access to Microdata: Measuring the Impact of Different Access Protocols on Data Utility— Stephanie Shipp, National Institute of Standards and Technology; Julia Lane, NORC at the University of Chicago
11:20 a.m.	Measuring Privacy Loss Due to Data Release: A New Perspective— & Lei Liu, Yale University; Heping Zhang, Yale University
11:35 a.m.	The Use of Propensity Score Matching Methods in Mixed Mode Studies—* John Bremer, Harris Interactive; Kerri Miller, Harris Interactive
11:50 a.m.	Practical Considerations in Applying the pq-Rule for Primary Disclosure Suppressions—*Meghan O'Malley, Bureau of Labor Statistics; Lawrence Ernst, Bureau of Labor Statistics
12:05 p.m.	Floor Discussion

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Speaker with Lunch 12:30 p.m.-1:50 p.m.

429 CC-Ballroom D Section on Health Policy Statistics Speaker with Lunch (fee event)—Speaker with Lunch

Section on Health Policy Statistics

Organizer(s): Anirban Basu, The University of Chicago

Importance of Using Cost-Effectiveness Analysis To Inform Health Policy in the United States— David Meltzer, The University of Chicago

Roundtables with Lunch 12:30 p.m.-1:50 p.m.

430 **CC-Ballroom A Biopharmaceutical Section Roundtables with** Lunch (fee event)

Biopharmaceutical Section

Organizer(s): Kaylan Ghosh, Vislation

- Incomplete Data in Longitudinal Studies— Geert Molenberghs, Hasselt University
- WL11 Clinical Trial Simulation: Beyond Statistics— * Bret Musser, Merck & Co., Inc.
- WL12 Statistical Concerns and Methodology Regarding Radiographic Data in Rheumatoid Arthritis— Lifen Zhou, Amgen Inc.
- WL13 Design-Based Multiplicity Adjusting Strategies in Late-Phase Clinical Trials—* Jianjun Li, Merck & Co., Inc.

431 CC-Ballroom A **Business and Economics Statistics Section Roundtables with Lunch (fee event)**

Business and Economics Statistics Section

Organizer(s): Clifford M. Hurvich, New York University

- Model Selection—❖ David Findley, U.S. Census Bureau
- WL15 Statistical Analysis of Large Panels of Economic Data— Serena Ng, University of Michigan

CC-Ballroom A

Section on Bayesian Statistical Science Roundtable with Lunch (fee event)

Section on Bayesian Statistical Science

Organizer(s): David van Dyk, University of California, Irvine

The Quasi-Bayesian Approach to Risk Management at the Department of Homeland Security— * David Banks, Duke University

433

CC-Ballroom A

Section on Physical and Engineering Sciences **Roundtables with Lunch (fee event)**

Section on Physical and Engineering Sciences

Organizer(s): Randall Tobias, SAS Institute Inc.

Verifying Computer Experiments with Physical WL17 Experiments— * William Notz, The Ohio State University

WL18 Publishing an Industrial Case Study: Advice for Would-**Be Authors**— Robert Rodriguez, SAS Institute Inc.

434

CC-Ballroom A

Section on Quality and Productivity Roundtables with Lunch (fee event)

Section on Quality and Productivity

Organizer(s): James Williams, GE Global Research

WL19 Communicating with Nonstatisticians— * Mark Bailey, SAS Institute Inc.

WL20 Risk-Adjusted Charts in Health-Care Monitoring— *Landon Sego, Pacific Northwest National Laboratory

435

CC-Ballroom C

Section on Statistical Consulting Roundtable with Lunch (fee event)

Section on Statistical Consulting

Organizer(s): James Grady, The University of Texas Medical Branch

Recognizing and Resolving Breakdowns in Your Consulting WL21 Practice—*Doug Zahn, Zahn and Associates

436

CC-Ballroom C

Section on Statistical Education Roundtables with Lunch (fee event)

Section on Statistical Education

Organizer(s): Jacqueline Miller, The Ohio State University

User-Friendly Jargon for Statistics—*Larry Weldon, WL22 Simon Fraser University

Statistics and Research Design: Oil and Vinegar?— Seth Hirshorn, University of Michigan-Dearborn

Academic Integrity in a High-Tech Classroom— \$ John WL24 McKenzie, Babson College

437

WL23

CC-Ballroom C

Section on Statistical Graphics Roundtable with Lunch (fee event)

Section on Statistical Graphics

Organizer(s): David Hunter, The Pennsylvania State University

Visualizing Model and Parameter Uncertainty— David W. Scott, Rice University

438

CC-Ballroom C

Section on Statisticians in Defense and National Security Roundtable with Lunch (fee event)

Section on Statisticians in Defense and National Security

Organizer(s): David Marchette, Naval Surface Warfare Center

Text Data Mining for Defense Applications—❖ Jeffrey WL 26 Solka, Naval Surface Warfare Center

439

CC-Ballroom C

Section on Statistics in Epidemiology Roundtable with Lunch (fee event)

Section on Statistics in Epidemiology

Organizer(s): William E. Barlow, Cancer Research and Biostatistics

Longitudinal Causal Modeling— * James Robins, Harvard School of Public Health

CC-Ballroom C

Section on Survey Research Methods Roundtable with Lunch (fee event)

Section on Survey Research Methods

Organizer(s): David Marker, Westat

WL28 Auditing Election Results— *Wendy Rotz, Ernst & Young

441 CC-Ballroom C

Social Statistics Section Roundtable with Lunch (fee event)

Social Statistics Section

Organizer(s): Jana Asher, Carnegie Mellon University

Media Coverage Regarding Data on Mortality in Irag— Leslie Roberts, Columbia Mailman School of Public Health; Gilbert Burnham, The Johns Hopkins University; Shannon Doocy, The Johns Hopkins University

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

442 CC-Ballroom C

Statistical Society of Canada Roundtable with Lunch (fee event)

SSC

Organizer(s): X. Joan Hu, Simon Fraser University

WL30 Fifty Years of Empirical Bayes/Shrinkage Inference:
Past, Present, and Future Outlook— S. Ejaz Ahmed,
University of Windsor

Special Presentation 2:00 p.m.–3:50 p.m.

443 CC-Ballroom B

Late-Breaking Session 2: War and Death in Iraq—Other

ASA, ENAR, SSC, WNAR, IMS, Section on Survey Research Methods, Section on Statisticians in Defense and National Security, Social Statistics Section

Organizer(s): Mathew R. Marler, University of California, Irvine Chair(s): Stephen Fienberg, Carnegie Mellon University

2:05 p.m. Results of a Survey Estimating Mortality Before and After the 2003 Invasion of Iraq—* Leslie Roberts, Columbia Mailman School of Public Health

2:55 p.m. Disc: Jana Asher, Carnegie Mellon University3:15 p.m. Disc: Fritz Scheuren, NORC at the University of

Chicago

3:35 p.m. Floor Discussion

Invited Sessions 2:00 p.m.-3:50 p.m.

444 CC-251 A

• © Recent Advances in Causal Modeling—Invited

ENAR, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, Section on Teaching Statistics in the Health Sciences, WNAR

Organizer(s): Jason Roy, Geisinger Health System Chair(s): Jason Roy, Geisinger Health System

2:05 p.m. **Mediation Analysis Using Random Assignment**

Interacted with Baseline Covariates as Instrumental Variables— Dylan Small,

University of Pennsylvania

2:35 p.m. Inference in Randomly Censored Regression

Models Using Conditional Moment Inequalities—

Shakeeb Khan, Duke University

3:05 p.m. Causal Comparisons in Randomized Trials of Two

Active Treatments—Jason Roy, Geisinger Health System; *Joseph W. Hogan, Brown University

3:35 p.m. Floor Discussion

445 CC-355 B

◆ Twenty-Five Years of Noninferiority Trials— Invited

Biopharmaceutical Section, ENAR, Biometrics Section, WNAR Organizer(s): Brian L. Wiens, Gilead Colorado

Chair(s): Brian L. Wiens, Gilead Colorado

2:05 p.m. Early Developments in Clinical Equivalence and

Similarity Trials—❖ William C. Blackwelder, University of Maryland, Baltimore County

2:30 p.m. The Establishment of Efficacy on the Basis of

Noninferiority Trials: Updating Our Approach—

Steven Snapinn, Amgen Inc.

2:55 p.m. Bayesian Perspectives on the Issue of

Noninferiority—❖ Andrew P. Grieve, King's

College

3:20 p.m. Disc: Susan S. Ellenberg, University of

Pennsylvania

3:40 p.m. Floor Discussion

446 CC-155 E

♠ Recent Advances in Statistical Learning: Modern Regularization Methods and Semisupervised Learning—Invited

Section on Statistical Computing, Section on Nonparametric Statistics Organizer(s): Hui Zou, The University of Minnesota

Chair(s): Jinchi Lv, Princeton University

2:05 p.m. Efficient Large-Margin Semisupervised Learning—

Junhui Wang, Columbia University; *Xiaotong

Shen, The University of Minnesota

2:35 p.m. Infinite Dimensional Lasso— Nathan Srebro,

Toyota Technological Institute at Chicago; Saharon Rosset, IBM T.J. Watson Research Center; Ji Zhu, University of Michigan; Grzegorz Swirszcz, IBM T.J. Watson Research Center

3:05 p.m. Grouped and Hierarchical Model Selection through

Composite Absolute Penalties—Peng Zhao, University of California, Berkeley; & Guilherme V. Rocha, University of California, Berkeley; Bin Yu, University of California, Berkeley

3:35 p.m. Floor Discussion



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Applied Session

Presenter

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447 CC-150 D-F

Risk Analysis in National Defense—Invited

Section on Risk Analysis, Section on Statisticians in Defense and National Security, Section on Physical and Engineering Sciences

Organizer(s): David Banks, Duke University

Chair(s): David Banks, Duke University

2:05 p.m. Risk Estimation and National Security: Introduction

and Overview— A. John Bailer, Miami University

2:30 p.m. Biosurveillance and the BioSense Program—

Henry Rolka, Centers for Disease Control and

Prevention

2:55 p.m. Risk Analysis at Los Alamos National Laboratory—

Alyson G. Wilson, Los Alamos National

Laboratory

3:20 p.m. Disc: Ed Melnick, New York University

3:40 p.m. Floor Discussion

448 CC-150 A-C

◆ Preventing, Correcting, and Measuring Overcoverage in Censuses—Invited

SSC

3:20 p.m.

Organizer(s): David Dolson, Statistics Canada Chair(s): David Dolson, Statistics Canada

2:05 p.m. Preventing and Correcting Coverage Errors in

the United States Decennial Census— David

Sheppard, U.S. Census Bureau

2:30 p.m. Unduplication in the 2010 United States Decennial

Census—**♦** Robin A. Pennington, U.S. Census

Bureau

2:55 p.m. Measuring Person Duplication: The 2006 Canadian

Overcoverage in the 2011 UK Census—*Owen

Abbott, Office for National Statistics; James

Brown, University of Southampton

3:45 p.m. Floor Discussion

449 CC-254 B

Sparse Inference and Large-Scale Multiple Comparisons—Invited

IMS, Section on Nonparametric Statistics

Organizer(s): Jiashun Jin, Purdue University

Chair(s): Bruce Craig, Purdue University

2:05 p.m. Maxima of Discretely Sampled Random Fields,

with an Application to 'Bubbles'— & Keith J.

Worsley, McGill University; Jonathan E. Taylor,

University of Montréal

2:35 p.m. **Network Kriging—** Eric D. Kolaczyk, Boston

University; David Chua, Boston University;

Mark Crovella, Boston University

3:05 p.m. Bayes and Empirical Bayes Approaches to

Controlling the FDR—& Cun-Hui Zhang, Rutgers

University; Weihua Tang, Rutgers University

3:35 p.m. Floor Discussion

450 CC-155 B

JASA, Applications and Case Studies Invited Session—Invited

JASA, Applications and Case Studies, General Methodology

Organizer(s): David Banks, Duke University

Chair(s): Robert B. Lund, Clemson University

2:05 p.m. Subjective Likelihood for the Assessment of Trends

in the Ocean's Mixed-Layer Depth— Michael Lavine, Duke University; Ana Rappold, Duke University; Susan Lozier, Duke University

3:10 p.m. Disc: C. Shane Reese, Brigham Young University

3:30 p.m. Floor Discussion

451 CC-155 C

• Increasing Statistical Literacy in Nonstatistical Professions—Invited

Committee on Outreach Education, Section on Statisticians in Defense and National Security

Organizer(s): Anna Nevius, U.S. Food and Drug Administration Chair(s): Owen Devine, Centers for Disease Control and Prevention

2:05 p.m. **Teaching Medical Statistics**— *Mary A. Foulkes,

George Washington University

2:30 p.m. Lessons Learned in Teaching a Statistics

Workshop—***** Jeffrey Solka, Naval Surface Warfare Center; Daniel Carr, George Mason

University

2:55 p.m. Statistics in a Legal Context—* Mary W. Gray,

American University

3:20 p.m. Disc: Wendy Martinez, Office of Naval Research

3:40 p.m. Floor Discussion

452 CC-255 E Adaptive Monte Carlo Methods—Invited

Section on Bayesian Statistical Science, ENAR

Organizer(s): Antonietta Mira, University of Insubria

Chair(s): Antonietta Mira, University of Insubria

2:05 p.m. Adaptive Independent Metropolis-Hastings Using Normal Mixtures— Robert Kohn, University

of New South Wales; Paolo Giordani, Bank of

Sweden

2:25 p.m. Combining Adaptation with MCMC Sampling

Methods— Heikki Haario, Lappeenranta University of Technology; Antti Solonen, Lappeenranta University of Technology

2:45 p.m. Adaptive MCMC, Intractable Likelihood Functions,

and Phylogenetic Inference—* Yves F. Atchade,

University of Michigan

3:05 p.m. Adaptive Population Monte Carlo—❖ Christian P.

Robert, Universite Paris Dauphine

3:25 p.m. Recent Advances in Monte Carlo Methods—

Christophe Andrieu, University of Bristol

3:45 p.m. Floor Discussion

453 CC-355 E

Medallion Lecture V—Invited

IMS, General Methodology, Biometrics Section

Organizer(s): Tony Cai, University of Pennsylvania

Chair(s): Xihong Lin, Harvard School of Public Health

2:10 p.m. Joint Modeling of Longitudinal and Survival Data—

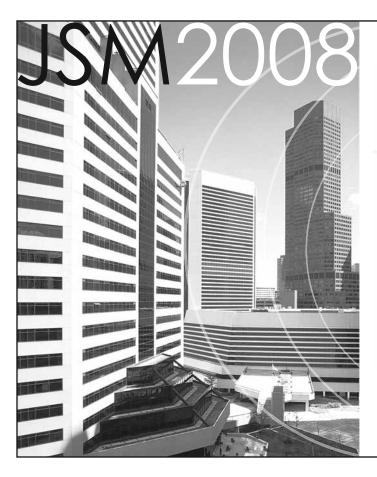
Jane-Ling Wang, University of California,

Davis

3:00 p.m. Disc: Jeremy Taylor, University of Michigan

3:20 p.m. Disc: Robin Henderson, Newcastle University

3:40 p.m. Floor Discussion





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Applied Session

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454 CC-150 G

Multicriteria Prioritization and Ranking with Partial Order Without Compositing Multiple Indicators into an Index in Social, Environmental, and Infrastructure Work—Invited

Environmental and Ecological Statistics, Section on Statistics and the Environment

Organizer(s): Ganapati P. Patil, The Pennsylvania State University Chair(s): Ganapati P. Patil, The Pennsylvania State University

2:05 p.m. Multicriteria Prioritization, Partial Order, and Hasse Diagrams in Environmental Sciences and Chemistry—& Rainer Bruggemann, Leibniz Institute of Freshwater Ecology and Inland Fisheries

2:55 p.m. Unmasking Weight Camouflage of a Composite Index Based on Multiple Indicators—& K. Sham Bhat, The Pennsylvania State University; Ganapati P. Patil, The Pennsylvania State University

3:20 p.m. Disc: N. Phillip Ross, Radiation Effects Research Foundation

3:40 p.m. Floor Discussion

455 CC-250 A

◆ Web Panel Surveys: A Solution to Declining Response Rates?—Invited

Section on Survey Research Methods

Organizer(s): Karol Krotki, RTI International

Chair(s): Mansour Fahimi, RTI International

2:05 p.m. Nonresponse Bias in Two Methods of Panel

Recruitment— Charles DiSogra, Knowledge
Networks, Inc.; Daniel Slotwiner, Knowledge
Networks, Inc.; Sarah Clinton, Knowledge
Networks, Inc.; Elisa Chan, Knowledge
Networks, Inc.; Erlina Hendarwan, Knowledge

Networks, Inc.

2:30 p.m. Combining RDD and Web Panel Surveys—*Karol

Krotki, RTI International

2:55 p.m. Sample Matching for Web Surveys: Theory

and Application— Douglas Rivers, Stanford University

University

3:20 p.m. Disc: Robert Santos, The Urban Institute 3:30 p.m. Disc: John Bremer, Harris Interactive

3:40 p.m. Floor Discussion

Topic-Contributed Sessions 2:00 p.m.-3:50 p.m.

456 CC-155 A

Statistical Graphics for Analysis of Drug Safety and Efficacy—Topic-Contributed

Section on Statistical Graphics, Section on Risk Analysis, WNAR Organizer(s): Michael O'Connell, Insightful Corporation Chair(s): Stephen Kaluzny, Insightful Corporation

2:05 p.m. Statistical and Graphical Analysis of Adverse Event Counts in Clinical Trials—* Michael O'Connell, Insightful Corporation

2:30 p.m. Using Graphics To Discover and Explore—*Julia Wang, Johnson & Johnson PRD

2:45 p.m. Statistical Graphics for the Analysis of Safety and Efficacy Data from Clinical Trials— Ohad Amit, GlaxoSmithKline

3:05 p.m. Graphical Analyses of Clinical Trial Safety Data— Kefei Zhou, Amgen Inc.; & Haijun Ma, Amgen Inc.; Hong A. Xia, Amgen Inc.; Matthew Austin, Amgen Inc.; George Li, Amgen Inc.; Michael O'Connell, Insightful Corporation

3:25 p.m. **Design of Statistical Graphics for Clinical Data***Richard M. Heiberger, Temple University

3:45 p.m. Floor Discussion

457 CC-355 D

● Phase I Trials in Cancer—Topic-Contributed

Biometrics Section, WNAR, Biopharmaceutical Section, ENAR Organizer(s): Terry Hyslop, Thomas Jefferson University Chair(s): Terry Hyslop, Thomas Jefferson University

2:05 p.m. New Phase I Trial Designs for Combinations of Two Agents—Shenghua (Kelly) Fan, California State University, East Bay; Alan P. Venook, University of California, San Francisco; *Ying Lu, University of California, San Francisco

2:25 p.m. An Application of the Time-to-Event Continual Reassessment Method: Dose Escalation in Patients with Lymphoma Undergoing Chemotherapy over an Extended Period—*Ken Cheung, Columbia

University

2:45 p.m. A Hierarchical Bayesian Design for Phase I Trials

of Novel Drug Combinations— Thomas M.

Braun, University of Michigan

General Program Schedule

◆ Themed Session
◆ Applied Session

Presenter

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3:05 p.m. An Adaptive Bayesian Approach to Incorporating PG Information in Phase I Trials—* Meihua Wang, University of Pittsburgh; Roger Day, University of Pittsburgh
 3:25 p.m. Toward a Benchmark for Sequential Phase I Cancer Trial Designs—* Jay Bartroff, University of Southern California; Tze Leung Lai, Stanford University

458 CC-250 D

● ② Noninferiority Trial Designs in Medical Devices—Topic-Contributed

Floor Discussion

3:45 p.m.

Biopharmaceutical Section, Biometrics Section, WNAR, ENAR
Organizer(s): David Snead, Cordis, a Johnson & Johnson Company
Chair(s): Dennis King, STATKING Consulting, Inc.

- 2:05 p.m. Statistics and Clinical, and Regulatory
 Considerations in the Selection of an Offset for
 Noninferiority Designs—* Philip Lavin, Averion
 International Corp.
- 2:25 p.m. Considerations for the Development of a Set of Noninferiority Trials for a Second-Generation Drug Eluting Stent—* Joe Bero, Boston Scientific Corporation
- 2:45 p.m. A Noninferiority Trial Utilizing a Closed
 Hierarchical Testing Procedure— Peggy Pereda,
 Boston Scientific Corporation; Eric Bass, Boston
 Scientific Corporation; Peter Lam, Boston
 Scientific Corporation
- 3:05 p.m. Bayesian NonInferiority Trial Design Using
 Hierarchical Models— Yongyi Yu, Boston
 Scientific Corporation.; Frank Zhou, Boston
 Scientific Corporation; Scott Wehrenberg,
 Boston Scientific Corporation; Ming-Hui Chen,
 University of Connecticut
- 3:25 p.m. Comparison Between Hierarchical Model and Power Prior Approach in a Bayesian Noninferiority Trial Design—& Peter Lam, Boston Scientific Corporation; Alan Yu, Boston Scientific Corporation; Ming-Hui Chen, University of Connecticut
- 3:45 p.m. Floor Discussion

459 CC-254 C Shrinkage Theory and Its Applications—Topic-

Shrinkage Theory and Its Applications—Topic-Contributed

IMS, Section on Nonparametric Statistics

Organizer(s): Jing Qiu, University of Missouri-Columbia

Chair(s): Chong Wang, Cornell University

- 2:05 p.m. Accounting for Selection Bias in the Estimation of Fold Change in Microarray Experiments—

 *George Wright, National Institutes of Health
- 2:25 p.m. Objective Bayesian Analysis for Estimating the KL Divergence Between Two Normal Populations with Common Covariance Matrix—* Zhonggai Li, Virginia Polytechnic Institute and State University; Dongchu Sun, University of Missouri-Columbia
- 2:45 p.m. Optimal Tests Shrinking Both Means and Variances Applicable to Microarray Data Analysis—*Peng Liu, Iowa State University; Gene J. T. Hwang, Cornell University
- 3:05 p.m. Hard and Soft Parameter Shrinkage in Microarray
 Data Analysis—& Gordon Smyth, Walter & Eliza
 Hall Institute
- 3:25 p.m. Double Shrinkage Empirical Bayesian Confidence Intervals for Multiple Parameters When the Variances Are Unequal and Unknown—* Jing Qiu, University of Missouri-Columbia; Gene J. T. Hwang, Cornell University; Zhigen Zhao, Cornell University

4:45 p.m. Floor Discussion

460 CC-355 F

Monte Carlo Methods and Their Applications— Topic-Contributed

IMS, General Methodology

Organizer(s): Yuguo Chen, University of Illinois at Urbana-Champaign Chair(s): Yuguo Chen, University of Illinois at Urbana-Champaign

- 2:05 p.m. Improving SAMC Using Smoothing Methods:
 Theory and Applications—*Faming Liang, Texas
 A&M University
- 2:25 p.m. Sampling Issues for Largish Tables—*Ian Dinwoodie, Duke University; Yuguo Chen, University of Illinois at Urbana-Champaign
- 2:45 p.m. Ensemble Sampling— Hedibert Lopes, The University of Chicago Graduate School of Business; Nicholas Polson, The University of Chicago Graduate School of Business

	Themed Session	CC-Salt Palace Convention Center GA-The Grand America Hotel
3:05 p.m.	Interweaving Data Augmentation Schemes for	Links —❖ Ramesh Dandekar, Energy Information
	Faster MCMC—❖ Yaming Yu, University of California, Irvine	Administration
3:25 p.m.	The Evolutionary Forest—❖ Leman Scotland, Duke University	2:25 p.m. Implementing a Portfolio Approach to the Protection of Confidential Data— Tim Mulcahy, NORC at the University of Chicago; Julia Lane, NORC at the University of Chicago
3:45 p.m.	Floor Discussion	2:45 p.m. Matching NCES Data to External Databases To
	CC-257 Current Trend of Bayesian Model son and Variable Selection—Topic- ted	Asses Disclosure Disk_Flizabeth Steiner
	ayesian Statistical Science, ENAR	3:05 p.m. Analytically Valid Microdata Files and
	: Ming-Hui Chen, University of Connecticut	Reidentification— William Winkler, U.S.
Chair(s): Ca	rlos Carvalho, Duke University	Census Bureau
2:05 p.m.	Objective Bayesian Model Selection for a Linear Mixed Model— Dongchu Sun, University of Missouri-Columbia	3:25 p.m. Measuring Disclosure Risk and an Examination of the Possibilities of Using Synthetic Data in the Individual Income Tax Return Public Use File—
2:25 p.m.	An Extended BIC for Model Selection— Surajit Ray, Boston University; James Berger, Duke University; Susie Bayarri, University of Valencia Woncheol Jang, University of Georgia; Luis R. Pericchi, University of Puerto Rico, San Juan	 Michael Weber, Internal Revenue Service; John Czajka, Mathematica Policy Research, Inc.; Sonya Vartivarian, Mathematica Policy Research, Inc. 3:45 p.m. Floor Discussion
2:45 p.m.	Random Effects Selection with Nonparametric	5.45 p.m. Floor discussion
2.43 p.m.	Settings— Bo Cai, University of South Carolina; David B. Dunson, National Institute of Environmental Health Sciences	Nonparametric and Semiparametric Methods in
3:05 p.m.	Objective Bayesian Variable Selection for Logistic Regression Models with Jeffreys' Prior—& Ming-	Brain Imaging Studies—Topic-Contributed Section on Nonparametric Statistics, International Indian Statistical Association
	Hui Chen, University of Connecticut; Joseph G. Ibrahim, The University of North Carolina	Organizer(s): R. Todd Ogden, Columbia University
	at Chapel Hill; Sung Duk Kim, University of	Chair(s): Ranjan Maitra, Iowa State University
	Connecticut	2:05 p.m. Multisubject Independent Component Analysis Using a Maximum Likelihood Approach—*Ying
3:25 p.m.	Disc: Dipak Dey, University of Connecticut	Guo, Emory University
3:45 p.m.	Floor Discussion	2:25 p.m. Detecting Activations in fMRI Experiments
462	CC-251 I	with Maximum Cross-Correlation Statistics—
	ng Disclosure Risk Through Statistical and Administrative Procedures—Topic-ted	University; William R. Schucany, Southern Methodist University; Richard Gunst, Southern Methodist University; Wayne Woodward,
Section on G Social Statist	overnment Statistics, Section on Health Policy Statistics,	Southern Methodist University; Jeffrey Spence, The University of Texas Southwestern
	: Alvan Zarate, National Center for Health Statistics	Medical Center at Dallas; Patrick Carmack,
_	van Zarate, National Center for Health Statistics	The University of Texas Southwestern Medical
2:05 p.m.	Comparative Evaluation of Four Sensitive Tabular	Center at Dallas; Qihua Lin, The University of Texas Southwestern Medical Center at Dallas

Data Protection Methods Using a Real-Life Table Structure of Complex Hierarchies and

GA-The Grand America Hotel Themed Session Applied Session Presenter CC-Salt Palace Convention Center

Thresholding Methods Applied on fMRI Data— 2:45 p.m. Martina Pavlicova, Columbia University 3:05 p.m. A Bootstrap Resampling Approach: Tests of Significance on Brain Imaging Data— & Chung Chang, Columbia University; R. Todd Ogden, Columbia University 3:25 p.m. Bayesian Hierarchical Spatiotemporal Models for fMRI Data— * Qihua Lin, The University of Texas

Southwestern Medical Center at Dallas; Richard Gunst, Southern Methodist University; Jeffrey Spence, The University of Texas Southwestern Medical Center at Dallas; Patrick Carmack, The University of Texas Southwestern Medical Center at Dallas; William R. Schucany, Southern Methodist University

3:45 p.m. Floor Discussion

464 CC-155 F

Dimension Reduction That Informs Science— **Topic-Contributed**

Section on Physical and Engineering Sciences

Organizer(s): Jacqueline M. Hughes-Oliver, North Carolina State University

Chair(s): Jacqueline M. Hughes-Oliver, North Carolina State *University*

2:05 p.m. Model Selection and Estimation for Semiparametric Stochastic Mixed Models for Longitudinal Data—❖ Xiao Ni, North Carolina State University; Daowen Zhang, North Carolina State University; Hao Zhang, North Carolina State University

Shrinkage Inverse Regression for Model-Free 2:25 p.m. Variable Selection—❖ Lexin Li, North Carolina State University; Howard D. Bondell, North Carolina State University

2:45 p.m. Gene Expression Data Analysis Using the Gene Ontology— * Jiajun Liu, North Carolina State University; Jacqueline M. Hughes-Oliver, North Carolina State University; J. Alan Menius, GlaxoSmithKline

Recent Directions in Predictor Selection— 3:05 p.m. ♦ Jessica Kraker, University of Wisconsin-Eau Claire; Douglas M. Hawkins, The University of Minnesota

3:25 p.m. Dimension Reduction in Systems Biology— Lei Zhu, GlaxoSmithKline; Kwan Lee, GlaxoSmithKline; Amit Bhattacharyya, GlaxoSmithKline; Edit Kurali, GlaxoSmithKline; Amber Anderson, GlaxoSmithKline

3:45 p.m. Floor Discussion

CC-255 F 465 Innovative Ideas for Teaching Statistics—Topic-Contributed

Section on Statistical Education, ENAR, Section on Teaching Statistics in the Health Sciences

Organizer(s): Patti Collings, Brigham Young University Chair(s): Kirk Anderson, Grand Valley State University

2:05 p.m. Teaching Introductory Statistics with a Blended Method Approach—*Leonard Gaines, Empire State Development

2:25 p.m. **Teaching Introductory Statistics with Constraints** and High Expectations— * William Seaver, University of Tennessee

2:45 p.m. To Service Learn (SL) or Not To Service Learn?— Amy Phelps, Duquesne University

3:05 p.m. Engaging Students in Elementary Statistics— Greg Knofczynski, Armstrong Atlantic State University; Paul Hadavas, Armstrong Atlantic State University; Lorrie Hoffman, Armstrong Atlantic State University

3:25 p.m. **Enhancing the Teaching of Statistics with** Technology Using the Statistics Online Computational Resource (SOCR)— Nicolas Christou, University of California, Los Angeles; Ivo D. Dinov, University of California, Los Angeles; Juana Sanchez, University of California,

3:45 p.m. Floor Discussion

Los Angeles

CC-251 B 466

Computationally Intensive Methods in AIDS Research II—Topic-Contributed

WNAR, ENAR, Section on Health Policy Statistics, Section on Nonparametric Statistics

Organizer(s): William G. Cumberland, University of California, Los Angeles Chair(s): Florin Vaida, University of California, San Diego

2:05 p.m. Nonparametric Tests with Application to RNA Viral Load Decline—❖ Susanne May, University of California, San Diego; Victor De Gruttola, Harvard University

2:25 p.m. Non- and Semiparametric Subset and Model Selection for Multiple Categorical Predictors and Several Outcomes— A. G. DiRienzo, Harvard School of Public Health

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

2:45 p.m.	15 p.m. Survey of Recombination in the HIV Genome:		Contributed Sessions 2:00 p.m.–3:50 p.m.		
	Hot Spots and Cold Spots— * Karin Dorman, Iowa State University; Misha L. Rajaram, Iowa State University; Marc A. Suchard, University of California, Los Angeles; Vladimir N. Minin, University of California, Los Angeles	468 • ❖ Rece	CC-355 A ent Advance in Analysis of Incomplete ontributed		
3:05 p.m. 3:25 p.m. 3:45 p.m.	Numeric EM for Linear and Nonlinear Mixed Effects Models with Censored Responses—*Lin Liu, University of California, San Diego; Florin Vaida, University of California, San Diego Disc: William G. Cumberland, University of California, Los Angeles Floor Discussion	Biometrics So <i>Chair(s): Xia</i> 2:05 p.m.	Examining Benefits and Drawbacks of Multiple Imputation for Disease Rate and Demographic Data—* Irene Helenowski, Northwestern University; Hakan Demirtas, University of Illinois at Chicago; Chiang-Ching Huang, Northwestern University		
Contribut Section on Ba	CC-255 A an Approaches to Clinical Trials—Topiced yesian Statistical Science, Biopharmaceutical Section Pulak Ghosh, Georgia State University	2:20 p.m.	Imputation Based on Propensity Score: A Comparative Study of the Penalized Spline Propensity Prediction Method with Alternative Double Robust Estimators—& Guangyu Zhang, University of Michigan; Roderick J. Little, University of Michigan		
Chair(s): Pete Cancer Cente 2:05 p.m.	er F. Thall, The University of Texas M. D. Anderson er Monitoring Late Onset Toxicities in Phase I Trials Using Predicted Risks—*Benjamin N. Bekele,	2:35 p.m.	Variable Selection with Missing Data in Survival Analysis—& Kun Liang, Iowa State University; Michael D. Larsen, Iowa State University; Terry M. Therneau, Mayo Clinic		
2:25 p.m.	The University of Texas M. D. Anderson Cancer Center Decision Analysis in Support of Clinical Trial Protocol Decisions— * Joseph Kahn, Novartis Pharmaceuticals	2:50 p.m.	Which Missing Value Imputation Method To Use in Expression Profiles: A Comparative Study and Two Selection Schemes—& Guy Brock, University of Louisville; John Shaffer, University of Pittsburgh; Richard Blakesley, University of Pittsburgh;		
2:45 p.m.	Could Bayesians and Frequentists Agree When Designing Clinical Trials?— Lurdes Inoue, University of Washington	3:05 p.m.	Meredith Lotz, University of Pittsburgh; George C. Tseng, University of Pittsburgh Interval Estimation for the Difference in Median		
3:05 p.m.	Bayesian Optimal Design in Phase II Studies— * Gary Rosner, The University of Texas M. D. Anderson Cancer Center; Peter Mueller, The University of Texas M. D. Anderson Cancer	·	Survival Times Based on Multiple Imputation— Maria Kocherginsky, The University of Chicago; Theodore G. Karrison, The University of Chicago		
3:25 p.m.	Center; Meichun Ding, Amgen Inc. Incorporating Patient's Characteristics in Cancer Phase I Clinical Trials Using Escalation with Overdose Control—& Mourad Tighiouart, Emory University; André Rogatko, Emory University; Zhiheng Xu, Emory University	3:20 p.m.	Analysis of Longitudinal Data with Informative Dropout— Li Chen, The University of North Carolina at Chapel Hill; Danyu Lin, The University of North Carolina at Chapel Hill; Donglin Zeng, The University of North Carolina at Chapel Hill		
3:45 p.m.	Floor Discussion	3:35 p.m.	Semiparametric Marginalized Model for Longitudinal Data with a Terminating Event— Mengling Liu, New York University; Wenbin Lu, North Carolina State University		

GA-The Grand America Hotel Themed Session Applied Session Presenter **CC**-Salt Palace Convention Center

469 Survival I Biometrics Se	CC-251 C Data Analysis I—Contributed ection	2:35 p.m.	A Mathematical Comparison of a Randomized Withdrawal Clinical Trial Design and a Parallel Groups Design To Demonstrate Disease
Chair(s): Joa 2:05 p.m.	nna H. Shih, National Cancer Institute Correlating Large-Scale Biological Data with Censored Survival Data— & Karthik Devarajan, Fox Chase Cancer Center		Modification— Suzanne Hendrix, Myriad Pharmaceuticals; Scott Horton, Myriad Pharmaceuticals; Alexander Gutin, Myriad Pharmaceuticals
2:20 p.m.	Empirical Likelihood-Based Inference for the Calibration Regression Model with Medical Cost—* Yichuan Zhao, Georgia State University	2:50 p.m.	Futility Assessment with Two Correlated Endpoints— * Meehyung Cho, sanofi-aventis; Bill Stager, sanofi-aventis
2:35 p.m.	Martingale Residuals for Nested Case-Control Data—*Ornulf Borgan, University of Oslo; Bryan Langholz, University of Southern California	3:05 p.m.	Reporting Quality-of-Life Results Using Percent Change from Baseline Analysis—* Jen-Fue Maa, Bristol-Myers Squibb Company; Kao-Tai Tsai, Bristol-Myers Squibb Company; Daniel Seekins, Bristol-Myers Squibb Company; Rozina Khanna,
2:50 p.m.	Power of Nonparametric Logrank and Wilcoxon Tests with Adjustment for Covariates: A Simulation Study—& Honghua Jiang, Eli Lilly and Company; James Symanowski, Nevada Cancer Institute; Sofia Paul, Novartis Pharmaceuticals; Yongming	3:20 p.m.	Bristol-Myers Squibb Company Distributional Approach for Measure of Agreement— Weishi Yuan, U.S. Food and Drug Administration; Tie-Hua Ng, U.S. Food and Drug Administration
	Qu, Eli Lilly and Company; Anothy Zagar, Eli Lilly and Company; Shengyan Hong, Eli Lilly and Company	3:35 p.m.	Test Homogeneity of Risk Difference Across Subgroups in Clinical Trials— Lanju Zhang, MedImmune, Inc.; Harry Yang, MedImmune, Inc.
3:05 p.m.	The Cost of Checking Proportional Hazards— *Bryan Shepherd, Vanderbilt University		Mediminune, inc., Harry Tang, Mediminune, inc.
3:20 p.m.	Nonparametric Estimation of State Occupation, Entry, and Exit Times with Current Status Data— & Ling Lan, University of Louisville; Somnath Datta, University of Louisville		CC-250 EF ication of Innovative Analysis in Clinical Contributed utical Section
3:35 p.m.	Assessing Fit in Cure-Mixture Models—& E. Paul Wileyto, University of Pennsylvania; Daniel F. Heitjan, University of Pennsylvania	<i>Chair(s): Ma</i> 2:05 p.m.	Using Latent Sleepiness To Evaluate an Important Side Effect of Promethazine— Alan Feiveson, National Aeronautics and Space Administration;
Data—Co Biopharmace	CC-355 C stical Issues in Analyzing Clinical Trials ontributed utical Section		Matthew Hayat, National Aeronautics and Space Administration; Zalman Vaksman, Wyeth; Lakshmi Putcha, National Aeronautics and Space Administration; Jason L. Boyd, National Aeronautics and Space Administration
<i>Chair(s): Yue</i> 2:05 p.m.	Phui Wu, GlaxoSmithKline Analysis of Cumulative Distribution of Responders	2:20 p.m.	The Entropy Correlation Coefficient and Its
2.03 μ.π.	in Clinical Trials—& Manuela Buzoianu, Johnson & Johnson PRD; Akiko Okamoto, Johnson		Application to Clinical Data Analysis— Ronald Pearson, ProSanos Corporation; Jaakko Astola, Tampere University of Technology
	& Johnson PRD; Surya Mohanty, Johnson & Johnson PRD; Yi-Wen Ma, Johnson & Johnson PRD	2:35 p.m.	Propensity Score Application in Historically Controlled Clinical Trials— Daniel Reyner, Zimmer, Inc
2:20 p.m.	Binary Clinical Trials Data Analysis Using Pairwise Likelihood— * Juanmei Liu, University of California, Los Angeles; Peter M. Bentler,	2:50 p.m.	Improving the Delta Method—& Paul Duty, Montgomery College; Nancy Flournoy, University of Missouri-Columbia

University of California, Los Angeles

•	♣ Themed Session ♠ Applied Session ♦ Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
3:05 p.m.	The Range Disparity Distribution and Its Applications—& Lawrence Marinucci, Acorda		South Carolina; Arjun Chatrath, University of Portland
2,20 n m	Therapeutics Inc; Tailiang Xie, Brightech International	2:20 p.m.	Time-Varying Coefficient Model for Corporate Bond Credit Spread—*Yuejiao Ma, The Pennsylvania
3:20 p.m.	Preference-Based Analysis for Estimating Treatment Efficacy Among Compliant Patients in a Randomized Clinical Trial—* Afisi S. Ismaila, McMaster University; Stephen Walter,	2:35 p.m.	State University Trading American Stock Options Amidst Market/ Model Disparity— Scott Nickleach, University of Pittsburgh
3:35 p.m.	McMaster University Bootstrap Test for Assessing the Efficacy of Drug Combinations—& Liwen Xi, Johnson & Johnson PRD; Guoyong Jiang, Cephalon, Inc.; Jianjun Li,	2:50 p.m.	Testing the Informational Efficiency of Municipal Bond Market—* Lei Zhang, Syracuse University; Chunchi Wu, Syracuse University; Raja Velu, Syracuse University
472 Convide	Merck & Co., Inc. CC-260 Coveriences and Disk. Contributed	3:05 p.m.	Principal Analysis and Price Dynamics for Sparse Auction Data— Bitao Liu, University of California, Davis; Hans-Georg Müller, University of California, Davis
Business and	Covariances, and Risk—Contributed Economics Statistics Section uglas Noe, Miami University	3:20 p.m.	Empirically Confronting Stochastic Singularity: An Application to the Cox, Ingersoll, and Ross
2:05 p.m.	* Mei-Mei Zen, National Cheng-Kung University		Model—❖ Kenneth Roskelley, The University of Arizona; Christopher Lamoureux, The University of Arizona
2:20 p.m.	Bayesian Wavelet Estimation of Copulas for Dependence Modeling—*Leming Qu, Boise State University	3:35 p.m.	Floor Discussion
2:35 p.m.	Statistical Analysis for Financial Ultra-High Frequency Data: A Filtering Approach—& Yong	474	CC-255 C ression and Forecasting—Contributed
		_	<u> </u>
2:50 p.m.	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled	Business and	Economics Statistics Section
2:50 p.m.	Zeng, University of Missouri-Kansas City	Business and	Teconomics Statistics Section Inberly S. Weems, North Carolina State University Testing the Equivalence of Regressions for the Capital Asset Pricing Models—& Hubert J. Chen, National Cheng Kung University; Jevons Lee,
2:50 p.m. 3:05 p.m.	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—& Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond—	Business and Chair(s): Kir	I Economics Statistics Section Inberly S. Weems, North Carolina State University Testing the Equivalence of Regressions for the Capital Asset Pricing Models—* Hubert J. Chen,
3:05 p.m.	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—* Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— * Weijian Liang, New York University; Peter Lakner, New York University	Business and Chair(s): Kir	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—& Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National
	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—* Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— * Weijian Liang, New York University; Peter	Business and Chair(s): Kir 2:05 p.m.	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—* Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National Cheng Kung University Inferences in Regression with Correlated
3:05 p.m.	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—* Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— * Weijian Liang, New York University; Peter Lakner, New York University Portfolio-Tracking Performance When Optimized with Estimation Error—* Andrew Siegel,	Business and Chair(s): Kir. 2:05 p.m.	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—* Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National Cheng Kung University Inferences in Regression with Correlated Residuals—* Yue Fang, University of Oregon Performance Comparison of Simple Forecasting Methods for Macroeconomic Indicators—* Bogong T. Li, Bank of America A Statistical Model of a Firm's Expenditure— * Jonathan Hosking, IBM T. J. Watson Research
3:05 p.m. 3:20 p.m. 3:35 p.m.	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—* Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— *Weijian Liang, New York University; Peter Lakner, New York University Portfolio-Tracking Performance When Optimized with Estimation Error—* Andrew Siegel, University of Washington Biased Bootstrap Methods for Semiparametric Models—* Mihal Giurcanu, University of Florida	Business and Chair(s): Kir. 2:05 p.m. 2:20 p.m. 2:35 p.m.	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—& Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National Cheng Kung University linferences in Regression with Correlated Residuals—& Yue Fang, University of Oregon Performance Comparison of Simple Forecasting Methods for Macroeconomic Indicators— & Bogong T. Li, Bank of America A Statistical Model of a Firm's Expenditure—
3:05 p.m. 3:20 p.m. 3:35 p.m. 473 • Investines and	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—& Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— & Weijian Liang, New York University; Peter Lakner, New York University Portfolio-Tracking Performance When Optimized with Estimation Error—& Andrew Siegel, University of Washington Biased Bootstrap Methods for Semiparametric Models—& Mihal Giurcanu, University of Florida CC-255 B ng Optimally —Contributed Economics Statistics Section	Business and Chair(s): Kir. 2:05 p.m. 2:20 p.m. 2:35 p.m.	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—* Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National Cheng Kung University Inferences in Regression with Correlated Residuals—* Yue Fang, University of Oregon Performance Comparison of Simple Forecasting Methods for Macroeconomic Indicators—* Bogong T. Li, Bank of America A Statistical Model of a Firm's Expenditure— * Jonathan Hosking, IBM T. J. Watson Research Center; Bibhas Chakraborty, University of Michigan A Comparison of Inference Procedures for the Simple Linear Errors-in-Variables Regression
3:05 p.m. 3:20 p.m. 3:35 p.m. 473 • Investines and	Zeng, University of Missouri-Kansas City The Economic Value of Intelligently Subsampled Realized Covariance Estimation of Asynchronous and Noisy High-Frequency Data—* Lada Kyj, Rice University; Katherine Ensor, Rice University; Barbara Ostdiek, Rice University Optimal Investment in a Defaultable Bond— * Weijian Liang, New York University; Peter Lakner, New York University Portfolio-Tracking Performance When Optimized with Estimation Error—* Andrew Siegel, University of Washington Biased Bootstrap Methods for Semiparametric Models—* Mihal Giurcanu, University of Florida CC-255 B ng Optimally —Contributed	Business and <i>Chair(s): Kir</i> 2:05 p.m. 2:20 p.m. 2:35 p.m.	Testing the Equivalence of Regressions for the Capital Asset Pricing Models—& Hubert J. Chen, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National Cheng Kung University Inferences in Regression with Correlated Residuals—& Yue Fang, University of Oregon Performance Comparison of Simple Forecasting Methods for Macroeconomic Indicators— & Bogong T. Li, Bank of America A Statistical Model of a Firm's Expenditure— & Jonathan Hosking, IBM T. J. Watson Research Center; Bibhas Chakraborty, University of Michigan A Comparison of Inference Procedures for the

			General Program Schedule
•	3 Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
3:20 p.m.	Multiple Imputation of Right-Censored Wages in the German IAB-Employment Register Considering Heteroscedasticity—* Thomas Buettner, Institute for Employment Research; Susanne Raessler, Institute for Employment Research	3:05 p.m.	Bayesian Modeling of Semicontinuous Spatial Data— Virginia Recta, U.S. Food and Drug Administration; James L. Rosenberger, The Pennsylvania State University; Murali Haran, The Pennsylvania State University
3:35 p.m.	Measuring Liquidity Costs in Agricultural Futures Markets: Conventional and Bayesian Approaches— * Julieta Frank, University of Illinois at Urbana-	3:20 p.m.	Sparsity and Smoothness for Disease Rate Mapping via Spatial Bayesian LASSO—❖ Haoda Fu, University of Wisconsin-Madison
	Champaign; Philip Garcia, University of Illinois at Urbana-Champaign	3:35 p.m.	Modeling Wind Fields Using Process Convolutions—*Margaret Short, University of Alaska Fairbanks
475	CC-254 A		
MCMC	and Gibbs Sampling—Contributed	477	CC-251 E
IMS	. •		ods for Administrative and National
Chair(s): Sco	tland Leman, Duke University		ata—Contributed
2:05 p.m.	Using Subsampling in Markov Chain Monte Carlo—	•	ealth Policy Statistics
·	❖ James Flegal, The University of Minnesota	Chair(s): Byr	on Gajewski, The University of Kansas Medical Center
2:20 p.m.	Gibbs Sampling for Bayesian Models— Alicia	2:05 p.m.	Evaluation of Consumer Panel Survey Data for
	Johnson, The University of Minnesota	·	Public Health Communication Planning: An
2:35 p.m.	Markovian Dynamics in a RAM with Applications to Classification— & Zach Dietz, Tulane University		Analysis of Annual Survey Data from 1995–2006— *William Pollard, Centers for Disease Control
2:50 p.m.	Goodness-of-Fit Tests for Generalized Linear	0.00	and Prevention
	Models When Some Covariates Are Missing— Lei Jin, Texas A&M University; Suojin Wang, Texas A&M University	2:20 p.m.	Statistical Modeling of Longitudinal Mental Distress Among Rural Seniors Who Participated in the National Population Health Survey—
3:05 p.m.	Floor Discussion		Chandima Karunanayake, University of Saskatchewan; Punam Pahwa, University of Saskatchewan
476	CC-255 D	2:35 p.m.	Statistical Methods for Constructing Canadian
New De Contribut	evelopments in Spatial Modeling— eed	2.00 μ	Growth Curves— Stephane Tremblay, Statistics Canada
	ayesian Statistical Science	2:50 p.m.	Evaluation of New Programs in State Medicaid
Chair(s): Luy	van Dai, University of Missouri-Columbia	·	Agencies—*Mark Carpenter, Auburn University
2:05 p.m.	Point Estimates for Variance-Structure Parameters in Bayesian Analysis of Hierarchical Models—*Yi He, sanofi-aventis; James S. Hodges, The University of Minnesota	3:05 p.m.	Classification Models for Identifying Chronic Disease Cases and Noncases in Administrative Claims Data—& Lisa M. Lix, University of Manitoba; William D. Leslie, University of
2:20 p.m.	Smoothed ANOVA with Spatial Effects as a Competitor to MCAR—& Yufen Zhang, The University of Minnesota; Hodges S. James, The University of Minnesota		Manitoba; Marina Yogendran, Manitoba Centre for Health Policy; Richard Baumgartner, National Research Council Canada; Christopher Bowman, National Research Council Canada;
2:35 p.m.	Bayesian Spatial Models with Repeated		Souradet Shaw, University of Manitoba
·	Measurements— * Xiaoqian Sun, Clemson University	3:20 p.m.	The Minimum Level of Sensitivity and Predictive Value Positive in the Evaluation of Health
2:50 p.m.	Loglinear Modeling for Point-Referenced Spatial		Outcomes with Administrative Data— *Yong-Fang
	Data— & Eric Tassone, Duke University; Marie		Kuo, The University of Texas Medical Branch;
	Lynn Miranda, Duke University; Alan E. Gelfand, Duke University		Tracy Nguyen-Oghalai, The University of Texas Medical Branch
	Genand, Duke Oniversity		0 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

•	Themed Session ● Applied Session ❖ Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel
3:35 p.m.	The Impact of Deidentification on Statistical Information in Limited Access Datasets— April Slee, Axio Research; Paula Diehr, University of Washington; Kenneth Rice, University of Washington	2:05 p.m.	An Assessment of the Effect of Misreporting of Phone Line Information on Key Weighted Estimates from Four National RDD Surveys— Ashley Bowers, University of Michigan; Jeffrey Gonzalez, Bureau of Labor Statistics
Section on Station, Society f Nonparametri		2:20 p.m.	Improvements in Coverage and Sample Weighting for Telephia's 2007 Attitude and Behavior Survey (TABS) of U.S. Cellular Phone Subscribers— Vicki Pineau, Telephia Inc.; Jim Baer, Telephia Inc.; Christianne Pang, Telephia Inc.; Glenn Atias, Telephia Inc.; Elisa Chan, Knowledge Networks, Inc.
2:05 p.m.	Statistical Methods for Detecting Financial Crimes: Applications and Challenges— Agus Sudjianto, Bank of America; Sheela Nair, University of	2:35 p.m. 2:50 p.m.	Nonresponse in Surveys of the College Educated Revisited—*Patrick Flanagan, U.S. Census Bureau; Nancy Dexter, U.S. Census Bureau Nonresponse in the Survey of Industrial Research
2:20 p.m.	California, Los Angeles An Efficient Sequential Design Method for Detecting Money Laundering—* Xinwei Deng, Georgia Institute of Technology; Roshan Joseph, Georgia Institute of Technology; Agus Sudjianto, Bank of America; Chien-Fu Jeff Wu,	3:05 p.m.	and Development— Perez Adriana, The University of Texas at Houston Health Science Center Adjusting for Missing Covariates Using the EM Algorithm for Logistic Regression Models: A Study of the Effect of Childhood Overweight on the Age
2:35 p.m.	Georgia Institute of Technology Unsupervised Quantile Learning To Identify Principal Direction of Anomaly—& Aijun Zhang, University of Michigan; Agus Sudjianto, Bank of America; Ming Yuan, Georgia Institute of Technology		of Onset of Menses— Pi Liu, The Ohio State University; Elizabeth A. Stasny, The Ohio State University; Pamela Salsberry, The Ohio State University; Patricia Reagan, The Ohio State University
2:50 p.m.	Rule and Rule Ensemble-Based Methods for Financial Crime Detection— Fernando Cela Diaz, Bank of America; Agus Sudjianto, Bank of America	3:20 p.m.	An Evaluation of Basic Calibration Estimators in Presence of Nonresponse— *Yves Thibaudeau, U.S. Census Bureau; Jun Shao, University of Wisconsin-Madison; Jeri Mulrow, National Science Foundation
3:05 p.m.	Feature Extraction and Classification to Identify Suspicious Activities— Alireza Darvish, The University of North Carolina at Charlotte; Kayvan Najarian, The University of North Carolina at Charlotte	3:35 p.m.	The Nonparametric Regression with Missing Responses and Its Applications to the U.S. Census—& Cheng Yong Tang, Iowa State University; Song Xi Chen, Iowa State University
3:20 p.m.	Simulating Goodness-of-Fit: Ensuring Fair Online Auctions—Andrew Ostarello, Exponent, Inc.; Michael Orkin, Exponent, Inc.	480 ● Method	CC-250 C Is and Analysis of Failure Time Data in
3:35 p.m.	The Netflix Challenge for Statisticians—* J. Brian Gray, The University of Alabama	Epidemio Section on Sta	logical Studies—Contributed atistics in Epidemiology awant Mandrekar, Mayo Clinic
Nonsamp Section on Su	CC-250 B nsating for Survey Nonresponse and ling Error—Contributed urvey Research Methods ki Burt. National Center for Health Statistics	2:05 p.m.	Regression Analysis of a Disease Onset Distribution Using Diagnosis Data—*Jessica G. Young, University of California, Berkeley; Nicholas P. Jewell, University of California, Berkeley; Steven J. Samuels, University at

Albany-SUNY

Chair(s): Vicki Burt, National Center for Health Statistics

♣ Themed Session
♠ Applied Session
♦ Presenter
CC-Salt Palace Convention Center
GA-The Grand America Hotel

2:20 p.m. Semiparametric Methods for Estimating
Cumulative Treatment Effects—& Guanghui Wei,
University of Michigan; Douglas Schaubel,
University of Michigan

2:35 p.m. Impact of Duration of Follow-Up Time on Predictors of Cardiovascular Disease in Survival Models—* Lei Zhu, Boston University; Michael J. Pencina, Boston University; Ralph B. D'Agostino, Sr., Boston University

2:50 p.m. Semiparametric Regression with Time-Dependent Coefficient for Failure Time Data Analysis—

*Zhangsheng Yu, The Ohio State University; Xihong Lin, Harvard School of Public Health

3:05 p.m. The Exclusion of Prevalent Cases from Incident
Dementia Risk Factor Studies Sacrifices Lots of
Information—* Daniel Tancredi, University of
California, Davis

3:20 p.m. Comparison of Adjusted Survival Curves with Different Reference Populations—*Xu Zhang, Georgia State University

3:35 p.m. Proportional Odds Modeling of Discrete Survival

Data with Application to Reproductive Study— * Huichao Chen, Emory University; Limin Peng, Emory University; Amita K. Manatunga, Emory University; Michele Marcus, Emory University

Invited Sessions 4:00 p.m.-5:50 p.m.

481 CC-Ballrooms E-J COPSS Awards and Fisher Lecture—Invited

ASA, Committee of Presidents of Statistics Societies, IMS, ENAR, WNAR, SSC.

Organizer(s): Madhuri S. Mulekar, University of South Alabama Chair(s): Jessica Utts, University of California, Davis

4:00 p.m. **Presentation of Awards—** Madhuri S. Mulekar, University of South Alabama

4:20 p.m. R. A. Fisher, Randomization, and Current Practice in Multicenter Clinical Trials—& Marvin Zelen, Harvard School of Public Health

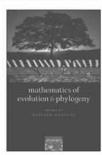
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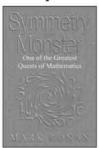
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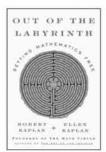
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THURSDAY, AUGUST 2

Tours

TR13 Utah Gold & Silver

9:00 a.m.-5:00 p.m. CC-South Foyer (200 South Street)

Committee/Business Meetings & Other Activities

7:00 a.m.–10:30 a.m. CC-252 A. CC-252 B

Speaker Work Rooms

Cyber Center

JSM Main Registration and ASA Membership/Special Assistance Desk

8:00 a.m.-10:00 a.m. CC-254 C

Council of Sections Governing Board JSM Meeting, Part 1 (closed)

Chair(s): S. Lynne Stokes, Southern Methodist University

8:00 a.m.–10:30 a.m. CC-South Foyer

ASA Marketplace

8:00 a.m.–6:00 p.m. CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

10:00 a.m.-11:30 a.m. CC-254 C

Council of Sections Governing Board JSM Meeting, Part 2 (closed)

Chair(s): S. Lynne Stokes, Southern Methodist University

Invited Sessions 8:30 a.m.-10:20 a.m.

482 CC-257

The Role of the ASA in MS Statistician Careers— Invited

Committee on Membership Retention and Recruitment, ENAR, WNAR, Section on Survey Research Methods

Organizer(s): David Banks, Duke University

Chair(s): Mingxiu Hu, Millennium Pharmaceuticals, Inc.

8:35 a.m. **The Evolution of an Engineer—** Matthew

Pocernich, National Center for Atmospheric

Research

9:05 a.m. Opportunities Offered by the ASA for a Statistician

in a Management Role in the Pharmaceutical Industry—* Jane B. Porter, Millennium

muusi y— valle B. Porter, Willeminu

Pharmaceuticals, Inc.

9:35 a.m. Transitioning into a Career as an MS Statistician:

How the ASA Can Help—& Monica Johnston,

University of California, San Francisco

10:05 a.m. Floor Discussion

483 CC-251 C

Advances in System Reliability—Invited

Section on Physical and Engineering Sciences, Section on Statisticians in Defense and National Security, Section on Risk Analysis, Section on Quality and Productivity

Organizer(s): Alyson G. Wilson, Los Alamos National Laboratory Chair(s): Alyson G. Wilson, Los Alamos National Laboratory

8:35 a.m. Parametric and Nonparametric Flowgraph Models

with Application to Bayesian Multistate Systems Reliability— Aparna V. Huzurbazar, University of New Mexico; Brian J. Williams, Los Alamos National Laboratory; David Collins, University

of New Mexico

9:05 a.m. Integrating System Engineering Methods into

Reliability Estimates— Andrew Koehler, Los

Alamos National Laboratory

9:35 a.m. Resource Allocation Strategies for Reliability of

Complex Systems—**❖** Christine Anderson-Cook,

Los Alamos National Laboratory

10:05 a.m. Floor Discussion



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Applied Session

Presenter

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484 CC-355 F 486

Statistical Validation of Surrogate Endpoints—Invited

Biopharmaceutical Section, Biometrics Section, Committee on Applied Statisticians, WNAR

Organizer(s): Peiqi Chen, Eli Lilly and Company Chair(s): Stacy Lindborg, Eli Lilly and Company

8:35 a.m. Unified Approaches for Surrogate Marker
Evaluation from Multiple Randomized Clinical
Trials—*Geert Molenberghs, Hasselt University

9:00 a.m. Evaluating and Using Surrogate Endpoints in Clinical Trials: A Bayesian Approach—& Mary K. Cowles, The University of Iowa; Qian Shi, The University of Iowa

9:25 a.m. Surrogate Endpoint Validation: Statistical Elegance versus Clinical Relevance—* Daniel J. Sargent,

Mayo Clinic

9:50 a.m. Disc: Sue-Jane Wang, U.S. Food and Drug

Administration

10:10 a.m. Floor Discussion

486 CC-151 G

Practical Bayesian Nonparametric Methods— Invited

Section on Bayesian Statistical Science, Section on Nonparametric Statistics Organizer(s): David Draper, University of California, Santa Cruz Chair(s): Herbert Lee, University of California, Santa Cruz

8:35 a.m. Bayesian Nonparametric Modeling for Well-Calibrated Location and Scale Inference with Skewed and Heavy-Tailed Data— David Draper, University of California, Santa Cruz

9:00 a.m. Nonparametric Modeling for Spatial Functional Data Analysis—* Alan E. Gelfand, Duke University

9:25 a.m. Bayesian Semiparametric Modeling Based on Mixtures of Polya Trees— Timothy E. Hanson, The University of Minnesota

9:50 a.m. Modeling with Infinitely Divisible Moving Averages— Robert L. Wolpert, Duke

University

10:15 a.m. Floor Discussion

485 CC-255 E 487 CC-255 B

■ Statistics and Finance—Invited

IMS

Organizer(s): Per A. Mykland, The University of Chicago Chair(s): Per A. Mykland, The University of Chicago

8:35 a.m. Large Dimensional Covariance Matrix Estimation

for Asset Pricing and Risk Management Using a Factor Model—& Jianqing Fan, Princeton University; Yingying Fan, Princeton University; Jinchi Lv, Princeton University

9:05 a.m. **Do Jumps Matter?—** Lan Zhang, University of

Illinois at Chicago

9:35 a.m. Testing for Jumps in a Discretely Observed

Process— * Yacine Ait-Sahalia, Princeton University; Jean Jacod, Universite Pierre and

Marie Curie

10:05 a.m. Floor Discussion

Profile Monitoring—Invited

Section on Quality and Productivity, Section on Physical and Engineering Sciences

Organizer(s): Willis Jensen, W.L. Gore & Associates, Inc.

Chair(s): William H. Woodall, Virginia Polytechnic Institute and State University

8:35 a.m. Profiles: Monitoring the Variance Components—

Shilpa Gupta, Arizona State University;
Douglas C. Montgomery, Arizona State

University

9:05 a.m. Monitoring Correlation Within Nonlinear Profiles
Using Mixed Models— Willis Jensen, W.L. Gore
& Associates, Inc.; Jeffrey B. Birch, Virginia
Polytechnic Institute and State University

9:35 a.m. A General Framework for Monitoring of Dynamic

Systems— Kwok-Leung Tsui, Georgia Institute of Technology; Wei Jiang, Stevens Institute of Technology; Tom Au, AT&T Labs - Research

10:05 a.m. Floor Discussion

490

488

CC-255 A

CC-255 F

◆ Innovative Designs and Analysis in Clinical Trials: Fully Harnessing Patient Information Accrued During a Trial—Invited

Section on Government Statistics, ENAR, Biometrics Section, Biopharmaceutical Section, WNAR

Organizer(s): Yi Cheng, Indiana University South Bend Chair(s): Yi Cheng, Indiana University South Bend

8:35 a.m. Adaptive Dose-Finding Designs for Single and Dual Agent Combinations Using Accumulated Data from All Patients— Sumithra J. Mandrekar, Mayo Clinic; Daniel J. Sargent, Mayo Clinic

9:05 a.m. Adaptive Design and Analysis of Clinical Trials—

*Yu Shen, The University of Texas
M. D. Anderson Cancer Center; Yi Cheng,
Indiana University South Bend

9:35 a.m. Progress in Using Adaptive Designs for Clinical Trials—* Donald A. Berry, The University of Texas M. D. Anderson Cancer Center

10:05 a.m. Floor Discussion

489 CC-255 D

◆ Medication Compliance: New Methods and Applications—Invited

ENAR, WNAR, Section on Health Policy Statistics, Biometrics Section Organizer(s): Junfeng Sun, University of Nebraska Medical Center; Honghu Liu, University of California, Los Angeles

Chair(s): Junfeng Sun, University of Nebraska Medical Center

8:35 a.m. Noncompliance with Drug-Dosing Regimens: An Underestimated Bias in Drug Trials and Clinical Practice—*Bernard Vrijens, Pharmionic Systems Ltd.

9:05 a.m. Dose-Timing Intervals of Antiretroviral Medications and Virologic Responses—& Honghu Liu, University of California, Los Angeles; Loren G. Miller, University of California, Los Angeles; Ron D. Hayes, University of California, Los Angeles; Carol E. Golin, The University of North Carolina at Chapel Hill; Junfeng Sun, University of Nebraska Medical Center; Tongtong Wu, University of California, Los Angeles; Neil S. Wenger, University of California, Los Angeles

9:35 a.m. Analyzing the Effects of Compliance Measured with Error in Randomized Trials—*Els Goetghebeur, Gent University; Stijn Vansteelandt, Ghent University; Manoochehr Babanezhad, Ghent

University
10:05 a.m. Floor Discussion

Advances in Statistical Aggregation —Invited

IMS, International Indian Statistical Association

Organizer(s): Florentina Bunea, Florida State University Chair(s): Florentina Bunea, Florida State University

8:35 a.m. **Aggregation Using Empirical Risk—** Sara A. van de Geer, ETH Zurich

9:25 a.m. Aggregating Algorithms for Individual
Sequences—* Nicolò Cesa-Bianchi, Università
degli Studi di Milano

9:50 a.m. Sparsity Oracle Inequalities for the Lasso—

*Marten Wegkamp, Florida State University;
Alexandre Tsybakov, Paris VI; Florentina Bunea,
Florida State University

10:15 a.m. Floor Discussion

491 CC-255 C

Statistical Methods and Applications in Genomics—Invited

IMS, Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, Biopharmaceutical Section, WNAR

Organizer(s): Heping Zhang, Yale University

Chair(s): Hongtu Zhu, The University of North Carolina at Chapel Hill

8:35 a.m. PfCluster: A New Profile Cluster Analysis
Procedure—*Jiayang Sun, Case Western
Reserve University; Yaomin Xu, The Cleveland
Clinic

9:05 a.m. A Simple and Improved Correction for Population Stratification in Genetic Association Studies—

* Michael Epstein, Emory University

9:35 a.m. Prior Elicitation and Variable Selection in Regression Models with High-Dimensional Data—& Joseph G. Ibrahim, The University of North Carolina at Chapel Hill; Mayetri Gupta, The University of North Carolina at Chapel Hill

10:05 a.m. Floor Discussion

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

492 CC-250 C

Network Science—Invited

Section on Statistical Computing, Section on Bayesian Statistical Science Organizer(s): Edward Wegman, George Mason University; Yasmin H. Said, George Mason University

Chair(s): William F. Szewczyk, National Security Agency

8:35 a.m. Bayesian Inference for a Longitudinal Social

Network Model—**❖** Mark S. Handcock, University

of Washington

9:05 a.m. **Network Survivability—**❖ Nozer D. Singpurwalla,

The George Washington University

9:35 a.m. A Review of Statistical Models for Networks with

a Focus on Imputation— Stanley Wasserman, Indiana University; Douglas Steinley, University of Missouri-Columbia; Garry Robins, University

of Melbourne

10:05 p.m. Floor Discussion

Topic-Contributed Sessions 8:30 a.m.-10:20 a.m.

493 CC-150 G

◆ Consulting from a Distance: Web-Based Analytics for Statistical Consulting—Topic-Contributed

Section on Statistical Consulting, WNAR

Organizer(s): Samaradasa Weerahandi, Time Warner; Edward D. Rothman, University of Michigan

Chair(s): Brady West, University of Michigan

8:35 a.m. Web-Based Analytics in Marketing—

Samaradasa Weerahandi, Time Warner

8:55 a.m. Use of Remote Consulting in a University

Environment— * Edward D. Rothman, University

of Michigan

9:15 a.m. Remote Consulting on Linear Mixed Models at a

University Consulting Center—❖ Kathleen Welch, University of Michigan; Brady West, University

of Michigan

9:35 a.m. How to Move from Desktop to Web Analytics—

Dilip Patel, Time Warner

9:55 a.m. Disc: Diane K. Michelson, International

SEMATECH Manufacturing Initiative

10:15 a.m. Floor Discussion

494

CC-355 B

Modeling Data from Brain Imaging Studies— Topic-Contributed

Biometrics Section, WNAR

Organizer(s): R. Todd Ogden, Columbia University

Chair(s): Martina Pavlicova, Columbia University

8:35 a.m. **Dynamic Positron Emission Tomography Data-**

Driven Analysis Using Sparse Bayesian Learning—

John Aston, Academia Sinica, Jyh-Ying Peng,

Academia Sinica

8:55 a.m. FMRI Statistical Brain Activation from k-Space

Data— Daniel Rowe, Medical College of

Wisconsin

9:15 a.m. State-Space Models for Optical Imaging— & Kary

Myers, Los Alamos National Laboratory; Anthony E. Brockwell, Carnegie Mellon University; William

F. Eddy, Carnegie Mellon University

9:35 a.m. Assessing Homogeneity in Brain Regions Using

Imaging Data—❖R. Todd Ogden, Columbia University; Huiping Jiang, Columbia University

9:55 a.m. The Use of Multiscale Methods To Characterize

Resting fMRI Data— Nicole Lazar, University of

Georgia

10:15 a.m. Floor Discussion

495 CC-355 D

◆ Repeated Measures and Recurrent Events in Medical Device Studies—Topic-Contributed

Biopharmaceutical Section, WNAR

Organizer(s): Zheng Zhou, Boston Scientific Corporation

Chair(s): Jeng Mah, American Medical Systems

8:35 a.m. **Group-Sequential Analysis of Correlated Binary**

Imm, Boston Scientific Corporation

8:55 a.m. Longitudinal Data Analysis in Medical Device

Clinical Studies— Chang S. Lao, U.S. Food and Drug Administration; Harry F. Bushar, U.S. Food

and Drug Administration

9:15 a.m. Comparison of Methods for Analyzing Recurrence

Cardiac Arrhythmia Data— Shelby Li,

Medtronic Inc.

GA-The Grand America Hotel Applied Session Presenter CC-Salt Palace Convention Center Themed Session 9:35 a.m. **Assessing Correlation Between Repeated** Binghamton University; Ursula Mueller, Texas A&M University; Wolfgang Wefelmeyer, Measurements of Secondary Endpoints in a Medical Device Trial—*Lan Pan, Boston Univeristaet zu Koeln Scientific Corporation; Bryan Randall, Boston 2-D Wavelet-Based Spectra with Applications 8:55 a.m. Scientific Corporation; Alex Shih, Boston in Analysis of Geophysical Images— & Brani Scientific Corporation Vidakovic, Georgia Institute of Technology; Orietta Nicolis, University of Bergamo; Claudio 9:55 a.m. Analysis of Recurrent Events Data in Medical Garutti, University of Padova Device Clinical Trials— Sarah J. H. Kogut, A Data-Driven Block Thresholding Approach to Beckman Coulter, Inc. 9:15 a.m. Wavelet Estimation—♦ Harrison Zhou, Yale 10:15 a.m. Floor Discussion University; Tony Cai, University of Pennsylvania 9:35 a.m. Bayesian Nonparametric Modeling for Spatial Data CC-251 E Using Dirichlet Processes— Michele Guindani, The University of Texas M. D. Anderson Cancer

496 Nonparametric Approaches to Regression and Spatial Modeling—Topic-Contributed

IMS, Section on Nonparametric Statistics, Section on Statistics and the Environment Organizer(s): Fang Li, Indiana University Purdue University Indianapolis Chair(s): Weixing Song, Kansas State University

8:35 a.m. Estimating the Innovation Distribution in Nonparametric Autoregression— Anton Schick, Center

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9:55 a.m. On Block Thresholding in Wavelet Regression with Long Memory Correlated Noise— Linyuan Li, University of New Hampshire

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Floor Discussion 10:15 a.m.





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Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

497 CC-151 A-C

◆ Bayesian Modeling of High-Dimensional Genomic Data—Topic-Contributed

Section on Bayesian Statistical Science, ENAR, Biometrics Section Organizer(s): Dipak Dey, University of Connecticut Chair(s): Thomas Santner, The Ohio State University

8:35 a.m. Using Genomic Scans of Fst To Identify the Footprints of Selection— & Kent Holsinger, University of Connecticut

8:55 a.m. Bayesian Semiparametric Testing and Estimation for High-Dimensional Genetic Data—* Richard MacLehose, National Institute of Environmental Health Sciences; David B. Dunson, National Institute of Environmental Health Sciences

9:15 a.m. Bayesian Pathways Studies Using Microarray
Data—* Lynn Kuo, University of Connecticut;
Wangang Xie, University of Connecticut; Dong-Guk Shin, University of Connecticut; Fang
Yu, University of Connecticut; Yifang Zhao,
University of Connecticut; Ming-Hui Chen,
University of Connecticut

9:35 a.m. **Bayesian Graph Cutting—** Bani Mallick, Texas A&M University

9:55 a.m. Log-Linear Models for Gene and Network
Interactions— Valen Johnson, The University of
Texas M. D. Anderson Cancer Center; Jianhua
Hu, The University of Texas M. D. Anderson
Cancer Center

10:15 a.m. Floor Discussion

498 CC-151 D-F

Bayesian Methods in Industrial Applications— Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Sujit Ghosh, North Carolina State University

Chair(s): Gentry White, North Carolina State University

8:35 a.m. A Bayesian Approach to Assessing the Risk of QT Prolongation— Suraj Anand, North Carolina State University; Sujit Ghosh, North Carolina State University

8:55 a.m. Bayesian Nonparametric Random Effects Selection
Using the Centered Dirichlet Process—& Mingan
Yang, National Institute of Environmental
Health Sciences; David B. Dunson, National
Institute of Environmental Health Sciences

9:15 a.m. Bayesian Estimation of Scram Rate Trends in Nuclear Power Plants— * Kaushal Mishra, North Carolina State University; Sujit Ghosh, North

Carolina State University

9:35 a.m. The Use of Bayesian Tolerance Intervals for Batch-Release Testing—& Richard Lewis, GlaxoSmithKline; Steven J. Novick, GlaxoSmithKline

9:55 a.m. A Joint Modeling Approach for Analyzing
Nonignorable Missing Data—*Sujit Ghosh,
North Carolina State University; Liansheng Zhu,
Pharmaceutical Product Development, Inc

10:15 a.m. Floor Discussion

499 CC-250 E

Section on Nonparametric Statistics, Section on Survey Research Methods Organizer(s): Omer Ozturk, The Ohio State University Chair(s): S. Lynne Stokes, Southern Methodist University

8:35 a.m. Estimating the Distribution Function Using k-tuple Ranked Set Samples— *Kaushik Ghosh, New Jersey Institute of Technology; Ram C. Tiwari, National Cancer Institute

8:55 a.m. Distribution-Free Statistical Intervals via Ranked-Set Sampling—* Jesse Frey, Villanova University

9:15 a.m. A Nonparametric Mean Estimator for Judgment
Post-Stratified Data—* Xinlei Wang, Southern
Methodist University; Johan Lim, Yonsei
University; S. Lynne Stokes, Southern Methodist
University

9:35 a.m. Optimal Ranked Set Sampling Estimation Based on Medians from Multiple Set Sizes—*Nader Gemayel, The Ohio State University; Elizabeth A. Stasny, The Ohio State University; Douglas Wolfe, The Ohio State University

9:55 a.m. Minimum Distance Estimator of Judgment-Ranking Probabilities in a Ranked-Set Sample—&Omer

Ozturk, The Ohio State University

10:15 a.m. Floor Discussion



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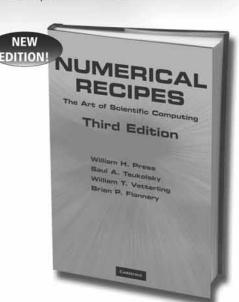
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Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

500 CC-250 A

Creating Materials for an Online Course—Topic-Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences, WNAR

Organizer(s): F. Michael Speed, Texas A&M University Chair(s): Benjamin H. Eichhorn, Rider University

8:35 a.m. Developing and Using Video Instruction in an Online Course—*Sue Schou, Idaho State University

8:55 a.m. Creating Materials for an Online Course—

Suzanne Perumean-Chaney, The University of Alabama at Birmingham; Mischelle T. Stone, The University of Alabama at Birmingham

9:15 a.m. Creating Materials for Online Students— Patti Collings, Brigham Young University

9:35 a.m. Creating Materials for an Online/Distance
Course— F. Michael Speed, Texas A&M
University; Kim Ritchie, Texas A&M University

9:55 a.m. Creating Materials for an Online Course—*Joan Weinstein, Harvard Extension School

10:15 a.m. Floor Discussion

501 CC-254 B

Bayesian Methods in Sample Surveys—Topic-Contributed

Section on Survey Research Methods

Organizer(s): Roderick J. Little, University of Michigan Chair(s): Michael R. Elliott, University of Michigan

8:35 a.m. Parametric and Semiparametric Model-Based
Estimates of the Finite Population Mean for TwoStage Cluster Samples with Item Nonresponse—
*Roderick J. Little, University of Michigan; Ying
Yuan, The University of Texas M. D. Anderson

Cancer Center

8:55 a.m. Bayesian Penalized Spline Model-Based Estimation of the Finite Population Distribution Function for

Unequal Probability Samples—*Qixuan Chen, University of Michigan; Michael R. Elliott, University of Michigan; Roderick J. Little,

University of Michigan

9:15 a.m. Simultaneous Credible Intervals for Small-Area Estimation Problems—* Nadarjasund Ganesh,

University of Maryland

9:35 a.m. Bayesian Approaches to Sequential Selection

of Survey Design Protocols—* James Wagner,

University of Michigan; Trivellore E.

Raghunathan, University of Michigan

9:55 a.m. Floor Discussion

502 CC-251 A

◆ Methods for Inference About Population Structure and Inheritance from Genetic Data— Topic-Contributed

WNAR, Section on Statistics in Epidemiology, Biometrics Section Organizer(s): Geof Givens, Colorado State University Chair(s): Ann Lee, Carnegie Mellon University

8:35 a.m. A Likelihood Method of Estimating Ancestry from

Pedigrees—* Janet Sinsheimer, University of California, Los Angeles; Christopher Plaisier, University of California, Los Angeles; Adriana Huertas-Vazquez, University of California, Los Angeles; Carlos Aguilar-Salinas, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán Mexico City; Teresa Tusie-Luna, National Autonomous University of Mexico; Paivi Pajukanta, University of California, Los Angeles; Kenneth Lange, University of California, Los Angeles

8:55 a.m. Cluster Analysis and PCA for Detection of Genetic

Variants and Population Structure— Diana Luca, Carnegie Mellon University; Kathryn Roeder, Carnegie Mellon University; Bernie Devlin, University of Pittsburgh Medical Center

9:15 a.m. **Evaluating Individual Admixture Estimation**

Through Plasmodes—*Laura K. Vaughan,
The University of Alabama at Birmingham;
Jasmin Divers, The University of Alabama at
Birmingham; Miguel Padilla, The University
of Alabama at Birmingham; David T. Redden,
The University of Alabama at Birmingham;
Hemant Tiwari, The University of Alabama at
Birmingham; Daniel Pomp, The University of
North Carolina at Chapel Hill; David B. Allison,
The University of Alabama at Birmingham

9:35 a.m. **Population Structure and Covariate Analysis**

Based on Pairwise Microsatellite Allele Matching Frequencies— & Geof Givens, Colorado State University; Isin Ozaksoy, Colorado State

University

9:55 a.m. Uncertainty in Inheritance: P-Values and

Confidence Levels— Elizabeth Thompson,

University of Washington

10:15 a.m. Floor Discussion

Contributed Sessions 8:30 a.m.-10:20 a.m.

503 CC-355 C

Survival Data Analysis II—Contributed

Biometrics Section

Chair(s): Jun-mo Nam, National Cancer Institute

8:35 a.m. Modeling Bivariate Survival Times by Frank
Copula— Rui Qin, Mayo Clinic; Michael P.
Jones, The University of Iowa

8:50 a.m. Nonparametric Inference for Clustered Competing
Risks Data— Bingshu Chen, National Institutes
of Health; Philip S. Rosenberg, National
Institutes of Health; Joan L. Kramer, National
Institutes of Health; Mark H. Greene, National
Institutes of Health

9:05 a.m. Pseudospline-Based Flexible Modeling of Survival Data—* Zekarias Berhane, Drexel University; Lisa Weissfeld, University of Pittsburgh; Chou H. Chang, University of Pittsburgh

9:20 a.m. Accommodating Deaths in Longitudinal Self-Rated Health for Hematopoietic Stem Cell
Transplant Recipients— Brenda F. Kurland,
Fred Hutchinson Cancer Research Center; Paul
J. Martin, Fred Hutchinson Cancer Research
Center; Stephanie J. Lee, Fred Hutchinson
Cancer Research Center

9:50 a.m. Low-Structure Discrete Hazard Estimation by Cross-Validated Modified Likelihood— Steven Mongin, The University of Minnesota; Timothy R. Church, The University of Minnesota Twin Cities

10:05 a.m. Development of a Stochastic Model of Salmon Migration Using Random Effects Models of Recapture Data from Tagged Individuals—

*Steven G. Smith, NOAA Fisheries; James R. Faulkner, National Marine Fisheries Service; Richard W. Zabel, NOAA Fisheries

504 CC-355 A

ROC Estimation and Diagnostic Tests— Contributed

Biometrics Section

Chair(s): Jianrong Wu, St. Jude Children's Research Hospital

8:35 a.m. Statistical Evaluation of Diagnostic Accuracy in Multiple Diagnostic Markers—& Mi-Chia Ma, National Cheng Kung University; Kun-Cheng Lin, National Cheng Kung University

8:50 a.m. Additional Diagnostic Utility of a Variable After the Adjustment of Other Variables—& Caixia Li, University of California, San Francisco; Ying Lu, University of California, San Francisco

9:05 a.m. Adjusting for Covariate Effects on Classification
Accuracy Using the Covariate-Adjusted ROC
Curve—& Holly Janes, The Johns Hopkins
University; Margaret Pepe, Fred Hutchinson
Cancer Research Center

9:20 a.m. Modeling of Prostate Cancer Detection Probability with Applications—*Robert Serfling, University of Texas at Dallas

9:35 a.m. Empirical Likelihood-Based Inference for the Partial Area Under the ROC Curve—& Gengsheng Qin, Georgia State University; Xiaoping Jin, Centers for Disease Control and Prevention; Xiao-Hua (Andrew) Zhou, University of Washington

9:50 a.m. An ROC Confidence Region Based on Radial Sweep Methods—& Michael Schuckers, St. Lawrence University; Yordan Minev, St. Lawrence University

10:05 a.m. Floor Discussion

505 CC-260

Inferences for Stochastic Process and Time-to-Event Data Analysis—Contributed

Biometrics Section

Chair(s): Zhigang Zhang, Oklahoma State University

8:35 a.m. Hierarchical Spatiotemporal Models for Preterm Birth—& Jonathan Norton, Florida State University

8:50 a.m. Coalescent Theory for a Monoecious Random
Mating Population with a Varying Size—& Edward
Pollak, Iowa State University

9:05 a.m. Real-Time Modeling of Infectious Disease
Outbreaks—*Laura White, Boston University;
Marcello Pagano, Harvard University

C	Themed Session • Applied Session • Presenter	CC-Salt Palace	Convention Center GA-The Grand America Hotel		
9:20 a.m.	Estimation Methods for Successive Times-to-Event Adjusted by Multiple Health-Related Quality-of-Life Scores—& Adin-Cristian Andrei, University of Wisconsin-Madison	9:20 a.m.	An Improved Classification Procedure for High- Dimension and Highly Noisy Data Using Data Defined Distance and Comparison Test—*Shuang Liu, University of California, Davis; David		
9:35 a.m.	Parameter Calibration in an Agent-Based Model of Leishmania Major Infection—& Garrett Dancik, Iowa State University; Karin Dorman, Iowa State University	9:35 a.m.	Rocke, University of California, Davis The Trade-Off of Bias and Variability in the Analysis of Affymetrix GeneChip Probe Data— Shibing Deng, Pfizer Inc.		
9:50 a.m.	A Color Image Grand Tour for Exploring Medical Images—* Juergen Symanzik, Utah State University; Bradley Wallet, Automated Decisions, LLC; William Shannon, Washington	9:50 a.m.	A Comprehensive Mixed-Model Approach for the Analysis of Microarray Gene Expression Data— * Jane Chang, Bowling Green State University; Jason C. Hsu, The Ohio State University		
10:05 a.m.	University in St. Louis Least Squares Estimation in Linear Regression with Doubly Truncated Data—* Xiaodong Luo, Mount Sinai School of Medicine; Wei-Yann Tsai, Columbia University	10:05 a.m.	Basal Gene Expression for Affymetrix Microarray and Its Application in Cancer Microarray Data Mining—& Hui-Rong Qian, Eli Lilly and Company		
		507	CC-150 A-C		
	CC-355 E stical Issues in Microarray Data in	 Business Statistics and Forecasting— Contributed 			
	Discovery—Contributed	Business and Economics Statistics Section			
Biopharmaceu		Chair(s): David Dickey, North Carolina State University			
Chair(s): Yue 8:35 a.m.	Wang, Merck & Co., Inc. Using Information Theory for the Classification of Trends in Dose-Response Microarray Experiments—& Luc Bijnens, Johnson & Johnson PRD; Dan Lin, Hasselt University; Ziv Shkedy, Hasselt University; An De Bondt, Janssen	8:35 a.m.	Mining Spatial Patterns of Best-Performing Branches in Banking Branch Marketing Analysis— *Wen Jun Yin, IBM China Research Laboratory; Ming Xie, IBM China Research Laboratory; Jin Dong, IBM China Research Laboratory; Bin Zhang, IBM China Research Laboratory		
	Pharmaceutica - JJPRD; Ilse Van Den Wyngaert, Janssen Pharmaceutica - JJPRD; Tamara Geerts, Janssen Pharmaceutica - JJPRD; Timothy	8:50 a.m.	Comparing Methods Used for Handling Negative Values in Statistical Samples of Business Records—& Eric Falk, Ernst & Young		
8:50 a.m.	Perera, Janssen Pharmaceutica - JJPRD; Hinrich Goehlmann, Johnson & Johnson PRD Using Biological Information To Increase the	9:05 a.m.	Dynamic Business Model Analysis for Internet- Delivered Business Services— & Bonnie Ray, IBM Research		
	Sensitivity of Tests for Differential Expression in Low-Dose Ionizing Radiation Studies—*Ruixiao Lu, University of California, Davis; Susanne R. Berglund, University of California, Davis; Alison	9:20 a.m.	Evaluating Forecasts— Wanli Min, IBM T.J. Watson Research Center; Chaitra Nagaraja, University of Pennsylvania		
	Santana, University of California, Davis; Zelanna Goldberg, University of California, Davis; David Rocke, University of California, Davis	9:35 a.m.	A Mixture of Binary Logistic Regression Analysis on Labor Supply of Mothers with Disabled Children— & Zeng-Hua Lu, University of South		
9:05 a.m.	Gene Selection: Filtering Microarray Probe Sets Based on Probe Level Consistency— & Willem Talloen, Johnson & Johnson PRD; Hinrich Goehlmann, Johnson & Johnson PRD;	9:50 a.m.	Australia A Semiparametric Approach To Estimate the Disagreement Prices Between the Hospitals and Insurers— Sreenivas Konda, Temple University		
	Dhammika Amaratunga, Johnson & Johnson	10:05 a.m.	Reflection on Teaching Business Statistics—		

Mammo Woldie, Texas Southern University

PRD; Luc Bijnens, Johnson & Johnson PRD

GA-The Grand America Hotel Applied Session Presenter CC-Salt Palace Convention Center Themed Session

508 CC-251 D ◆ Stochastic Processes and Related Topics— Contributed				
IMS	having M. Cusani Hairansita of California I on Augulas			
8:35 a.m.	herine M. Crespi, University of California, Los Angeles An Extension of Fisher's Discriminant Analysis for Stochastic Processes— & Hyejin Shin, Auburn University			
8:50 a.m.	Uniform Central Limit Theorems for Density Estimators—* Richard Nickl, University of Connecticut			
9:05 a.m.	Detection of Two-Sided Alternatives in a Brownian Motion Model— Olympia Hadjiliadis, Princeton University/Drexel University; Vincent Poor, Princeton University			
9:20 a.m.	Spectral Approaches for Clustering Time Series with Long Memory and Short Memory—* Jaydip Mukhopadhyay, University of Connecticut; Nalini Ravishanker, University of Connecticut; Cyr E. M'lan, University of Connecticut; Jonathan Hosking, IBM T. J. Watson Research Center			
9:35 a.m.	Estimation of Age of a Galton Watson Process— * Satrajit Roychoudhury, Schering Plough Research Institute; Pranab K. Sen, The University of North Carolina at Chapel Hill; Manish C. Bhattacharjee, New Jersey Institute of Technology			
9:50 a.m.	Stability of Empirical Minimizers Through Gaussian Approximation— Philippe Berthet, The University of Rennes 1			
10:05 a.m.	Floor Discussion			
509 Bayesian	CC-150 D-F Methods—Contributed			

Section on Bayesian Statistical Science Chair(s): Fei Liu, Duke University

8:35 a.m. **Bayesian Inference Resistant to Outliers** Using Super Heavy-Tailed Distributions for the Calculation of Premiums— Alain Desgagne, University of Québec at Montréal; Jean-François Angers, University of Montréal

8:50 a.m. **Redefining Degrees of Freedom for General** Hierarchical Linear Models— *Yue Cui, The University of Minnesota; James S. Hodges, The University of Minnesota

9:05 a.m. **Empirical Bayes Models of Poisson Clinical** Trials— Boris Zaslavsky, U.S. Food and Drug Administration 9:20 a.m. A New Approach to the Inverse Bayes Formula of Compatible Conditional Distributions— * Kun-Lin

Kuo, National Chengchi University; Chwan-Chin Song, National Chengchi University; Thomas J. Jiang, National Chengchi University

9:35 a.m. **Bayes Sequential Estimation for a Subclass** of Exponential Family of Distributions Under LINEX Loss— Alicja Jokiel-Rokita, Wrocław University of Technology

Estimation Procedures in the Case of Randomly 9:50 a.m. Forthcoming Data—*Ryszard Magiera, Wroclaw University of Technology; Alicja Jokiel-Rokita, Wroclaw University of Technology

10:05 a.m. Bayesian Analysis of Progressively Type-II Censored Sample from Burr Type-XII Distribution— *Younshik Chung, Pusan National University; Seongho Song, University of Cincinnati; Chansoo Kim, Kongju National University; Junghoon Jang, Korea Food and Drug Association

510 CC-250 D

Modeling and Simulation—Contributed

Section on Statistical Computing, Section on Statistical Graphics Chair(s): Heike Hofmann, Iowa State University

8:35 a.m. **Confirmatory Factor Analysis and Measurement** Error: A Monte Carlo Simulation—❖ Bruce Brown, Brigham Young University; Tyson T. Phalp, Myriad Genetics; Petr Blahus, Charles University

8:50 a.m. Maximum Likelihood-Based Confidence Intervals for Complementary Poisson Rate Parameters with Data Subject to Misclassification— Kent Riggs, Stephen F. Austin State University

9:05 a.m. Fitting Curves to Nested Confidence Intervals— **Bob Blodgett**, U.S. Food and Drug Administration

9:20 a.m. The Semiparametric Exchangeable Model— Stephine Keeton, U.S. Food and Drug Administration

Applied Session

•	Mphiled Session	oo-Sait i alace	Convention Center Grand America Hotel		
9:35 a.m.	A Parametric Bootstrap Approach for ANOVA with Unequal Variances: Fixed and Random Models—	512 Topics in	CC-251 B Environmetrics—Contributed		
	Fei Lu, University of Louisiana at Lafayette; Kalimuthu Krishnamoorthy, University of Louisiana at Lafayette; Thomas Mathew, University of Maryland, Baltimore County	Section on St	ratistics and the Environment, WNAR ronica J. Berrocal, University of Washington Nonlinear Forecasts of the Gulf of Maine		
9:50 a.m.	Some Binary and Nonbinary Construction Plans for Diallel Cross Designs in Incomplete Blocks— *Jeffrey Shaffer, Tulane University; Sudesh	8:50 a.m.	Ecosystem— Barbara Bailey, San Diego State University; Andrew Pershing, University of Maine Nonparametric Smoothing of Irregularly-Spaced		
10:05 a.m.	Srivastav, Tulane University A Continuing Study on a New Resampling Method To Reduce Small-Sample Bias: An Extension to Multivariate Data—& Haiyan Bai, University of Central Florida; Wei Pan, University of Cincinnati; Stephen Sivo, University of Central		Palaeo Records: Trend Estimation with Application to Climate Change— Patricia Menendez, Swiss Federal Institute for Forest Snow and Landscape Research WSL; Sucharita Ghosh, Swiss Federal Institute for Forest Snow and Landscape Research WSL		
	Florida	9:05 a.m.	A Test of Equality of Spectra of Short Memory Independent Gaussian Time Series—*Ravi		
511 CC-250 B		3	Siddani, University of Maryland, Baltimore		
Section on St Health Science		9:20 a.m.	County Temporally Correlated Dirichlet Processes in Pollution Receptor Modeling—* Matthew		
8:35 a.m. 8:50 a.m.	e Harvill, Baylor University Teaching Introductory Statistics to Prospective Elementary School Teachers: The Habitat Experience at ETSU—& Edith Seier, East Tennessee State University; Susan Hosler, East Tennessee State University Differences in Students' Performance Due to a	9:35 a.m.	Heaton, Brigham Young University Estimation of Sea Depth by Data Assimilation with Tsunami Simulation Model— Kazuyuki Nakamura, The Graduate University for Advanced Studies; Tomoyuki Higuchi, The Institute of Statistical Mathematics; Naoki Hirose, Kyushu University		
0.30 a.m.	Statistics Lab Component—*Jose H. Guardiola, Texas A&M University, Corpus Christi; Duran-Hutchings Nadina, Texas A&M University, Corpus Christi; Joseph Champine, Texas A&M University, Corpus Christi	9:50 a.m.	Bias of Cormack-Jolly-Seber (CJS) Survival Estimators in Release Recapture Studies with Low Sampling Effort—& James R. Faulkner, National Marine Fisheries Service; Steven G. Smith, NOAA Fisheries		
9:05 a.m.	Undergraduate Consulting as an Introductory Course—*Jim Bentley, University of Redlands	10:05 a.m.	Climate Change Impacts and Models—*John Aleong, University of Vermont		
9:20 a.m.	Mentoring an Undergraduate Research Project—*Debra Hydorn, University of Mary Washington	10:05 a.m.	Floor Discussion		
9:35 a.m.	Teaching a 'History of Statistics' Discussion Course—& Phyllis Curtiss, Grand Valley State University; Kirk Anderson, Grand Valley State	Section on Su	CC-251 F all Sample Design—Contributed urvey Research Methods and a Cox. Battelle		

Presenter

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Applications— Stephen Williams, Mathematica State University Policy Research, Inc.; Frank J. Potter, A Random Walk Through ANOVA— * Daniel 10:05 a.m.

8:35 a.m.

Chair(s): Brenda Cox, Battelle

Mathematica Policy Research, Inc.

Survey Designs To Optimize Efficiency and

Precision for Multiple Objectives: Methods and

9:50 a.m.

University

Writing Assignments in Elementary Statistics

Kaplan, Macalester College

Classes— Ananda Jayawardhana, Pittsburg

GA-The Grand America Hotel

`	Themed Session Applied Session Tresenter	CC-Sait I alace	Convention Center Grand America notes
8:50 a.m.	Optimization of Nonproportional Samples— *Raimund K. Wildner, GfK Group	9:50 a.m.	A Method for Bias-Reduction of Sample-Based MLE of the Autologistic Function— Steen Magnetical Consider Forest Samples Robert
9:05 a.m.	Sampling Design and Inference for Social Network Data: Estimating Epidemic Potential with Contact		Magnussen, Canadian Forest Service; Robert Reeves, Queensland University of Technology
	Tracing Data—❖ Krista Gile, University of Washington; Mark S. Handcock, University of Washington	10:05 a.m.	Floor Discussion
9:20 a.m.	Sample Allocation Under a Population Model and Stratified Inclusion Probability Proportional to Size Sampling—Steven Heeringa, Institute for Social Research; & SunWoong Kim, Dongguk University; Peter Solenberger, Institute for	Child Hea Section on Sta Chair(s): San	ations in Public Health and Maternal and alth—Contributed atistics in Epidemiology, Section on Health Policy Statistics and Ratcliffe, University of Pennsylvania
9:35 a.m. 9:50 a.m.	Social Research Comparison of Sample Set Curtailment Procedures—* Jason Legg, Iowa State University A Model-Assisted Design Based on Adaptive	8:35 a.m.	Ranking Children Vaccination Coverage Curves with the National Immunization Survey (NIS)— * Zhen Zhao, Centers for Disease Control and Prevention; Philip J. Smith, Centers for Disease Control and Prevention
10:05 a.m.	Sampling—* Ismaila Adeleke, University of Lagos; Raymond Okafor, University of Lagos; Ebenezer Esan, University of Lagos; Athanasius Opara, University of Lagos Floor Discussion	8:50 a.m.	Bayesian Hierarchical Models to Evaluate Translational Research: Connecticut Collaboration for Fall Prevention— Terrence Murphy, Yale University; Heather G. Allore, Yale University; Mary Tinetti, Yale University
	CC-254 A ariate and Longitudinal Analysis of Survey ontributed	9:05 a.m.	Disparity of Mortality from Leading Causes by Socioeconomic Status and Their Geographic Distribution: U.S. Residents, 2000-2004—* Jay H. Kim, National Center for Health Statistics
Section on Su	rvey Research Methods	9:20 a.m.	Alternative Models of Calculating Risk of Heat
	eil Russell, National Center for Education Statistics		Death Among Individuals Making Covert Border
8:35 a.m.	Random Forests with Survey Data—& Guillermo Mendez, Arizona State University; Sharon L. Lohr, Arizona State University		Crossings from Mexico to Arizona—*Mary Mays, Arizona State University; Samuel M. Keim, Arizona State University; Kendall Allred,
8:50 a.m.	Multivariate Analysis Techniques on Model-Based Sampling—Chang Tai Chao, National Cheng Kung University; & Feng Min Lin, National	9:35 a.m.	Arizona State University; Jan Jirsak, Arizona State University A Strategy To Evaluate Noncoverage in a
	Cheng Kung University		Binational, Population-Based Maternal and Child
9:05 a.m.	A Multivariate Time Series Model for Small Areas in the Dutch Labor Force Survey— Sabine Krieg, Statistics Netherlands; Jan Van den Brakel, Statistics Netherlands		Health Survey on the U.SMexico Border— ❖ Ruben Smith, Centers for Disease Control and Prevention; Jill McDonald, Centers for Disease Control and Prevention; Christopher Johnson, Centers for Disease Control and Prevention
9:20 a.m.	Longitudinal Estimation in Dual-Frame Surveys— ❖ Yan Lu, Arizona State University; Sharon L. Lohr, Arizona State University	9:50 a.m.	Latent Variable Models for Development and Validation of an Infant Morbidity Index— * Xuefeng Liu, Wayne State University; Jeffrey
9:35 a.m.	Joint Modeling of Longitudinal Binary Outcome and Time to Drop-Out: An Application Using Complex Survey Data—*Punam Pahwa, University of Saskatchewan; Chandima Karunanayake, University of Saskatchewan	10:05 a.m.	Roth Birth Weight Distribution: Thinking Outside the Curve—*Richard Charnigo, University of Kentucky; Lorie W. Chesnut, The University of Alabama at Birmingham; Tony LoBianco, University of Kentucky.

Themed Session

Applied Session

Presenter

CC-Salt Palace Convention Center

University of Kentucky

Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

Invited Sessions 10:30 a.m.-12:20 p.m.

516 CC-151 A-C

Biometrics: A Gold Standard? How Can Statistics as a Field Contribute Toward Finding an Answer?— Invited

Section on Statisticians in Defense and National Security, ENAR, Biometrics Section, Section on Health Policy Statistics

Organizer(s): Sinjini Mitra, The University of Southern California Chair(s): Michael Schuckers, St. Lawrence University

10:35 a.m. Biometric Recognition: Applications, Performance, and Challenges— Anil K. Jain, Michigan State University

11:00 a.m. Statistical Models for Fingerprint Individuality—

Sarat Dass, Michigan State University;
Yongfang Zhu, Michigan State University; Anil

K. Jain, Michigan State University

11:25 a.m. **Information Fusion in Biometrics—** Arun Ross,

West Virginia University

11:50 a.m. Statistical Issues in Biometric Authentication—

Stephen Fienberg, Carnegie Mellon University

12:15 p.m. Floor Discussion

517 CC-257

New Development in the Analysis of Medical Data with Complex Structures—Invited

Biometrics Section, SSC, ENAR

Organizer(s): Jianguo Sun, University of Missouri-Columbia Chair(s): Do-Hwan Park, University of Nevada, Reno

10:35 a.m. Multivariate Interval-Censored Survival Data:
Parametric, Semiparametric, and Nonparametric

Models—❖ Philip Hougaard, Lundbeck

11:00 a.m. Robust Estimation of State Occupancy Probabilities with Interval-Censored Multistate Data—

*Richard J. Cook, University of Waterloo; David Tolusso, University of Waterloo

11:25 a.m. A Class of Linear Transformation Models

Under Interval Censoring—❖ Zhigang Zhang,

Oklahoma State University

11:50 a.m. Inference After Model Selection Using Restricted

Permutation Methods— Rui Wang, Harvard School of Public Health; Stephen Lagakos,

Harvard School of Public Health

12:15 p.m. Floor Discussion

518 CC-255 E

Wald Lecture III—Invited

IMS, General Methodology, Section on Bayesian Statistical Science

Organizer(s): Tony Cai, University of Pennsylvania

Chair(s): Dongchu Sun, University of Missouri-Columbia

10:35 a.m. Working with Inexact Models: The World of

Computer Modeling— * James Berger, Duke University

11:40 a.m. Disc: L. Mark Berliner, The Ohio State

University

12:00 p.m. Floor Discussion

519 CC-255 B

Recent Advances in Group Randomization Trials—Invited

WNAR, ENAR, Section on Health Policy Statistics, Biometrics Section *Organizer(s): Catherine M. Crespi, University of California, Los Angeles*

Chair(s): Weng-Kee Wong, University of California, Los Angeles

Modeling Heterogeneity in Intraclass Correlation—
 Catherine M. Crespi, University of California,
 Los Angeles; Weng-Kee Wong, University of
 California, Los Angeles

10:55 a.m. **Breaking the Matches in Community Intervention Trials**—❖ Allan Donner, University of Western

Ontario

11:15 a.m. Contamination and Group Randomized Trials—

Ziding Feng, Fred Hutchinson Cancer

Research Center

11:35 a.m. **Design and Analysis of Pseudo-Cluster**

Randomized Trials— Mirjam Moerbeek,

Utrecht University

11:55 a.m. Group Randomized Trials in Ethnic Populations—

Susan L. Stewart, University of California, San

Francisco

12:15 p.m. Floor Discussion

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Applied Session

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520 CC-151 G 522 CC-250 F

Topics on Sample Survey Design and Inference in Honor of JNK Rao's 70th Birthday and 50 Years of Contributions—Invited

Section on Survey Research Methods

Organizer(s): Paul S. Levy, RTI International

Chair(s): Partha Lahiri, University of Maryland

10:35 a.m. Recent Developments in Multiple-Frame

Surveys— Sharon L. Lohr, Arizona State

University

11:00 a.m. Rao-Scott Corrections and Beyond— Alastair J.

Scott, University of Auckland

11:25 a.m. Small-Area Estimation: Theory and Practice—

Mike A. Hidiroglou, Statistics Canada

11:50 a.m. Disc: Wayne Fuller, Iowa State University

12:10 p.m. Floor Discussion

521 CC-355 F

Some Practical Considerations for Statisticians Designing Clinical Trials—Invited

Statisticians in the Pharmaceutical Industry, ENAR, Biometrics Section, Biopharmaceutical Section

Organizer(s): John W. Stevens, AstraZeneca; Sara H. Hughes, GlaxoSmithKline

Chair(s): Sue-Jane Wang, U.S. Food and Drug Administration

10:35 a.m. Statistical Considerations in Planning Drug Clinical

Trials—&H. M. James Hung, U.S. Food and

Drug Administration

11:00 a.m. Performance of Multiple Testing Procedures

To Compare Three Doses of a Test Drug and Placebo—& Lan Kong, University of Pittsburgh;

Gary Koch, The University of North Carolina at Chapel Hill; Thomas Liu, Amgen Inc.; Huei

Wang, Amgen Inc.

11:25 a.m. Choice of the Primary Analysis in Longitudinal

Clinical Trials—❖Craig Mallinckrodt, Eli Lilly

and Company

11:50 a.m. Bioequivalence and the Pharmaceutical Industry—

Scott Patterson, GlaxoSmithKline; Byron

Jones, Pfizer Inc.

12:15 p.m. Floor Discussion

National Science Foundation Funded Projects in Undergraduate Education—Invited

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Shonda Kuiper, Grinnell College

Chair(s): Ann Cannon, Cornell College

10:35 a.m. The SUM Project: A Statistics Undergraduate

Mentoring (SUM) Program—* Julie Legler, St.

Olaf College

11:00 a.m. Content-Rich Statistical Projects for Undergraduate

Economics Students—&Linda Collins, The

University of Chicago

11:25 a.m. Computing in Statistics: Model Courses and

Curricula— Deborah Nolan, University of California, Berkeley; Mark Hansen, University of California, Los Angeles; Duncan Temple Lang,

University of California, Davis

11:50 a.m. Interdisciplinary Labs Created for a First or Second

Course in Statistics— Shonda Kuiper, Grinnell

College

12:15 p.m. Floor Discussion

523 CC-250 E

◆ Dimension Reduction and Information Visualization—Invited

IMS, Section on Nonparametric Statistics, Section on Statistical Graphics Organizer(s): Ker-Chau Li, University of California, Los Angeles Chair(s): Ker-Chau Li, University of California, Los Angeles

10:35 a.m. An RKHS Formulation of the Inverse Regression

Dimension Problem—**❖** Tailen Hsing, The Ohio State University; Haobo Ren, Alcatel-Lucent

11:05 a.m. Iterative Robust Sliced Inverse Regression for Gene

Clustering in Microarray Gene Expression Data
Analysis—*Han-Ming Wu, Academia Sinica

11:35 a.m. Matrix Visualization for High-Dimensional

Categorical Data Structure with a Cartography

Link—& Chun-houh Chen, Academia Sinica; Sheng Li Tzeng, Academia Sinica; Chiun-How

Kao, Academia Sinica

12:05 p.m. Floor Discussion

Recent Advances in Nonstationary Time Series— Invited

Business and Economics Statistics Section, IMS Organizer(s): Hernando C. Ombao, University of Illinois Chair(s): Xiaofeng Shao, University of Illinois

10:35 a.m. **Local Adaptive Estimation for Nonstationary Time** Series— Sebastien Van Bellegem, Universite catholique de Louvain

Discrimination of Nonstationary Signals Using 11:05 a.m. Localized Higher-Order Spectra— Hernando C. Ombao, University of Illinois

11:35 a.m. **Time-Dependent Spectral Analysis with** Applications to Epileptic EEG Data— Wensheng Guo, University of Pennsylvania

Floor Discussion 12:05 p.m.

525 CC-151 D-F Risk Estimation Challenges—Invited

Section on Risk Analysis

Organizer(s): Michael E. Tarter, University of California, Berkeley Chair(s): Duane Steffey, Exponent, Inc.

10:35 a.m. Risk and Regulatory Policy Assessment Based on Complex Data Sources— Michael E. Tarter, University of California, Berkeley; Joseph P. Brown, State of California, Air Toxicology, and Risk Assessment Unit; Andrew G. Salmon, State of California, Air Toxicology and Risk Assessment Unit

11:00 a.m. **Estimating Cancer Risks from Exposure to Low** Levels of Ionizing Radiation— Ethel Gilbert, National Cancer Institute

11:25 a.m. Risk and the Early Detection of Disease—Marvin Zelen, Harvard School of Public Health:

> Sandra Lee, Dana-Farber Cancer Institute Disc: Gretchen G. Moisen, USDA Forest Service

Floor Discussion 12:10 p.m.

11:50 a.m.

526 Recent Advances in Statistical Learning and Data Mining—Invited

ASA Interest Group on Statistical Learning and Data Mining, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences Organizer(s): Xiaotong Shen, The University of Minnesota

Chair(s): Hui Zou, The University of Minnesota

10:35 a.m. **Probability Estimation for Large Margin** Classifiers-\$Junhui Wang, Columbia University; Xiaotong Shen, The University of Minnesota; Yufeng Liu, The University of North

Carolina at Chapel Hill

11:05 a.m. Screening for Monotone Association— * Joseph S.

Verducci, The Ohio State University

Lasso Regression: Some Recent Developments— 11:35 a.m.

*David Madigan, Rutgers University

12:05 p.m. Floor Discussion

CC-355 E 527

Recent Outreach from the American Statistical Association to the General Public—Invited

The American Statistician, Section on Statistical Education Organizer(s): Peter Westfall, Texas Tech University

10:35 a.m. **Garnering Student Interest: Finding Homer** Simpson in Homework Assignments—*Leonard A. Stefanski, North Carolina State University

11:00 a.m. Attracting Sports Enthusiasts: Is an .833 Hitter Better Than a .338 Hitter?— \$ Jesse Frey, Villanova University

11:25 a.m. Recent Public Relations Outreach of the ASA: Actions and Results— Peter Westfall, Texas Tech University; Rosanne Desmone, American Statistical Association

11:50 a.m. Disc: Eugene Komaroff, Kessler Medical Rehabilitation Research and Education Center

12:00 p.m. Disc: Thomas Love, Case Western Reserve University

12:10 p.m. Floor Discussion

Applied Session

Presenter

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Topic-Contributed Sessions 10:30 a.m.-12:20 p.m.

CC-250 A 528

Statistical Issues in Diagnostic and Prognostic Assays—Topic-Contributed

Section on Statistics in Epidemiology, WNAR

Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug Administration

Chair(s): Lakshmi Vishnuvajjala, U.S. Food and Drug Administration

Time-Dependent Receiver Operating 10:35 a.m.

Characteristic Curves for Early Markers of Event Time Outcomes—❖ Yuying Jin, University of Washington; Margaret Pepe, Fred Hutchinson Cancer Research Center; Yingye Zheng, Fred Hutchinson Cancer Research Center

10:55 a.m. Time Dependence of a Gene-Expression

Prognosticator from Modeling Breast Cancer Survival Data— * Kit Fun Lau, Celera; John Sninsky, Celera; Trevor Hastie, Stanford

University

On Design Issues of Clinical Studies for in vitro 11:15 a.m.

Diagnostics— & Christoph Berding, Roche

Diagnostics GmbH

Assessment of Impact of Protocol Changes on 11:35 a.m.

> Classification Accuracy— Wei-min Liu, Roche Molecular Systems, Inc.; Wei Wen, Roche Molecular Systems, Inc.; Barbara Brady, Roche Molecular Systems, Inc.; Sung Lee, Roche

Molecular Systems, Inc.

11:50 a.m. Disc: Harry F. Bushar, U.S. Food and Drug

Administration

12:10 p.m. Floor Discussion

529 CC-255 D

GIS, Map Accuracy, and Statistics—Topic-Contributed

Section on Statistics and the Environment

Organizer(s): Jarrett Barber, University of Wyoming

Chair(s): Linda Young, University of Florida

10:35 a.m. GIS, Map Accuracy, and Statistics— Michael

Goodchild, University of California, Santa Barbara

10:55 a.m. **Error Models in Geographic Information Systems**

> **Vector Data Using Bayesian Methods—** *Kimberly Love, Virginia Polytechnic Institute and State University; Eric P. Smith, Virginia Polytechnic

Institute and State University; Stephen Prisley, Virginia Polytechnic Institute and State University; Keying Ye, University of Texas at San

11:15 a.m. Using the Linearity of Map Features in Statistical Modeling of Map Positional Error—❖ Jarrett

Barber, University of Wyoming

11:35 a.m. Modeling the Probability Distribution of Positional Errors Incurred by Residential Address Geocoding

for a Rural Health Study— Dale Zimmerman,

The University of Iowa

11:55 a.m. Disc: Carol Gotway-Crawford, National Center

for Environmental Health

12:15 p.m. Floor Discussion

530 CC-355 B

Survival Analysis in Medical Device Studies— Topic-Contributed

Biopharmaceutical Section, WNAR, ENAR, Biometrics Section Organizer(s): Peggy Pereda, Boston Scientific Corporation Chair(s): John Evans, Boston Scientific Corporation

10:35 a.m. Propensity Score-Adjusted Survival Analysis— *Nathan Carter, Boston Scientific Corporation; Ed McMullen, Boston Scientific Corporation;

Jennifer Mischke, Boston Scientific Corporation 10:55 a.m. Time-to-Event Analysis Considerations in the Medical Device Industry— & Helen Chmiel,

Boston Scientific Corporation

11:15 a.m. An Application of Propensity Score Analysis in

Medical Device Clinical Studies— Wenji Pu,

Medtronic Inc.

11:35 a.m. Assessment of Goodness-of-Fit of Cox Model

> with Multiple Predictors in Drug Eluting Stent Trial Efficacy Evaluation—Frank Zhou, Boston Scientific Corporation; Yukiko Imai, Boston Scientific Corporation; *Hong Wang, Boston

Scientific Corporation

11:55 a.m. Disc: Heng Li, U.S. Food and Drug

Administration

12:15 p.m. Floor Discussion

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Applied Session

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531 CC-255 C

Application of Causal Inference in Health Sciences—Topic-Contributed

ENAR, Biometrics Section, WNAR, Section on Health Policy Statistics, Section on Statistics in Epidemiology

Organizer(s): Sati Mazumdar, University of Pittsburgh Chair(s): Sati Mazumdar, University of Pittsburgh

10:35 a.m. A Structural Equation Model for fMRI Data with Mixed Functional and Discrete Responses—

*Wesley Thompson, University of Pittsburgh

11:15 a.m. Confounders in Assessment of Haplotypes for Lung Cancer Risk—*Roger Day, University of Pittsburgh

11:35 a.m. A Longitudinal Mediational Model To Assess the Indirect Effect of Adolescent-Physical Activity in Young Adult-Physical Activity Between Males and Females—* Kang Sun, University of Pittsburgh; Vincent C. Arena, University of Pittsburgh

11:55 a.m. Disc: Pranab K. Sen, The University of North Carolina at Chapel Hill

12:15 p.m. Floor Discussion

532 CC-251 B

◆ Methodological Issues in Engineering Applications of Computer Models: A SAMSI Program—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Thomas Santner, The Ohio State University Chair(s): Sujit Ghosh, North Carolina State University

10:35 a.m. Resampling for Inverse Problems Involving High-Dimensional Computer Simulators—*Herbert Lee, University of California, Santa Cruz; Matthew Taddy, University of California, Santa Cruz; Bruno Sanso, University of California,

Santa Cruz

10:55 a.m. A Bayesian Analysis of the Thermal Challenge Problem—* Fei Liu, Duke University; Susie Bayarri, University of Valencia; James Berger, Duke University; Rui Paulo, ISEG-Technical University of Lisbon; Jerry Sacks, National Institute of Statistical Sciences 11:15 a.m. Bayesian Kalman Filter for Emulation of Complex Computer Models—& Gentry White, North Carolina State University; Peter Reichert, Swiss Federal Institute of Aquatic Science and Technology

11:35 a.m. Determining the Pareto Frontier for Multiobjective Optimization of Black Box Functions—Dianne Bautista, The Ohio State University; & Thomas Santner, The Ohio State University

11:55 a.m. Aleatory and Epistemic Uncertainty Quantification for Engineering Applications—*Laura Swiler,

Sandia National Laboratories; Anthony Giunta, Sandia National Laboratories

12:15 p.m. Floor Discussion

533 CC-251 F

Nonparametric and Semiparametric Methods for Data with Measurement Errors—Topic-Contributed

Section on Nonparametric Statistics, Section on Statistics in Epidemiology Organizer(s): Xiaofeng Wang, The Cleveland Clinic

Chair(s): Xiaofeng Wang, The Cleveland Clinic

10:35 a.m. Bandwidth Selection for Weighted Kernel Density Estimation— Bin Wang, University of South Alabama

10:55 a.m. Multivariate Failure Time Data Modeling with Instrumental Variables—* Zhaozhi Fan, Memorial University of Newfoundland; Xiaofeng Wang, The Cleveland Clinic

11:15 a.m. Estimating the Distribution Function with

Measurement Error in a Complicated Survey—

*Liang Li, The Cleveland Clinic; Tom Greene,
The Cleveland Clinic

11:35 a.m. A New Approach for Measurement Errors in Linear Models— & Guan Xing, Bristol-Myers Squibb Company

11:55 a.m. Floor Discussion

534

CC-250 D

Statistical Analysis of Neuronal Data—Topic-Contributed

IMS

Organizer(s): Zhiyi Chi, University of Connecticut

Chair(s): W. John Boscardin, University of California, Los Angeles

10:35 a.m. Using Point Process Models To Describe
Oscillatory Spiking in the Subthalamic Nucleus
of Parkinson's Patients—Uri Eden, Boston
University; Emery N. Brown, Massachusetts
General Hospital; Emad Eskandar,
Massachusetts General Hospital; & Sridevi V.
Sarma, Massachusetts Institute of Technology

10:55 a.m. Modeling and Decoding Multineuronal Responses in the Primate Retina—& Liam Paninski,

Columbia University

11:15 a.m. Real-Time Decoding of Nonstationary Motor Cortical Activity— *Wei Wu, Florida State University

11:35 a.m. Jitter Methods for Investigating the Time Scale of Dependencies in Neuronal Firing Patterns—
 Matthew Harrison, Carnegie Mellon University; Asohan Amarasingham, Rutgers University; Stuart Geman, Brown University

11:55 a.m. Variable Selection and Classification Using
Computed Tomography (CT) Medical Image
Data—& Hyun Kim, University of California,
Los Angeles; Gang Li, University of California,
Los Angeles; David W. Gertson, University of
California, Los Angeles; Robert Ochs, University
of California, Los Angeles; Matthew S. Brown,
University of California, Los Angeles; Jonathan

Goldin, University of California, Los Angeles

12:15 p.m. Floor Discussion

535 CC-150 G

◆ Estimating the Incidence, Effect, and Cost of New Treatments for Health Outcomes—Topic-Contributed

Section on Health Policy Statistics, ENAR, Biometrics Section, WNAR Organizer(s): Bonnie Ghosh-Dastidar, RAND Corporation
Chair(s): Yulei He, Harvard Medical School

10:35 a.m. How Do You Argue Against the Use of a High-Cost Medical Treatment When a 'Quality-of-Life' Measure Is Not Available?—*Andrea McAllister, Highmark Inc.

10:55 a.m. Estimation of Incidence of First-Time-Ever Treatment, Prevalence of Paused Treatment,

and Prevalence of Active Treatment from
Pharmacoepidemiologic Claims Data— & Henrik
Stovring, University of Southern Denmark

11:15 a.m. Mixed Treatment Comparison of Migraine
Headache Treatment: Indirect Comparison and
Evidence Consistency—*Rongwei (Rochelle) Fu,
Oregon Health & Science University; Kimberly
Peterson, Oregon Health & Science University

11:35 a.m. Effect of Intravenous Insulin Infusion on Coronary Artery Disease—Samer Ellahham, Innovative Medical Institute/Paragon Cardiovascular Foundation; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University; *Rima Allaham, Paragon Cardiovascular Foundation

11:55 a.m. Update on Cardiometabolic Risk Reduction:
Role of the Endocannabinoid System—* Samer
Ellahham, Innovative Medical Institute/Paragon
Cardiovascular Foundation; Yasmin H. Said,
George Mason University; Edward Wegman,
George Mason University

12:15 p.m. Floor Discussion

Contributed Sessions 10:30 a.m.-12:20 p.m.

536 CC-260

◆ Issues Related to Power and Sample Size Calculation—Contributed

Biometrics Section, Section on Teaching Statistics in the Health Sciences Chair(s): Hulin Wu, University of Rochester

10:35 a.m. Power and Sample Size Estimation for the Wilcoxon Rank Sum Test—❖ Bernard Rosner, Harvard Medical School; Robert Glynn, Brigham and Women's Hospital

10:50 a.m. Sample Size Calculations in Simple Linear Regression: A New Approach—& Marepalli B. Rao, University of Cincinnati; Mohammed K. Alam, Kendle International Inc.; Subramanyam Kasala, The University of North Carolina at Wilmington; Thomas Bradstreet, Merck & Co., Inc.

11:05 a.m. Why Family-Based Association Makes Sense in a Genome-Wide World: A Comparison of Study Power—* David Fardo, Harvard University; Christoph Lange, Harvard School of Public Health

C	Themed Session • Applied Session • Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
11:20 a.m.	Sample Size Calculations for Clinical Trials with Rate of Decline on a Quantitative Trait as the Endpoint— Steven Edland, University of California, San Diego		of Arkansas for Medical Sciences; Songjoon Baek, U.S. Food and Drug Administration; Chien-Ju Lin, National Center for Toxicological Research; James J. Chen, U.S. Food and Drug
11:35 a.m.	Mixed-Effects Logistic Model for Association Analysis— Sanjay Shete, The University of Texas M. D. Anderson Cancer Center	12:05 p.m.	Administration Recursive Estimation Method for Predicting Residual Bladder Urine Volumes to Improve
11:50 a.m.	Covariate-Modulated False Discovery Rates— *Egil Ferkingstad, University of Oslo; Arnoldo Frigessi, University of Oslo; Gudmar Thorleifsson, deCODE genetics; Augustine Kong, deCODE genetics		Accuracy of Timed Urine Collections—* David Afshartous, University of Miami; Richard Preston, University of Miami
12:05 p.m.	Regression-Based Association Approach Using	538	CC-355 D
12.00 p	Genetic Similarity for Genomewide Association		ession Approaches To Analyze Discreet linical Trials—Contributed
	Scans—* Jung-Ying Tzeng, North Carolina State		utical Section, Biometrics Section
	University; Sheng-Mao Chang, North Carolina State University; Duncan C. Thomas, University	Chair(s): Chr	istine Clark, ICON Clinical Research
	of Southern California; Marie Davidian, North Carolina State University	10:35 a.m.	Application of the Zero-Inflated Negative Binomial Distribution— Arlene Swern, Merck & Co., Inc.; Hongwei Wang, Merck & Co., Inc.; Qian
537	CC-355 C		Dong, Merck & Co., Inc.; Eric C. Kleerup, David Geffen School of Medicine at UCLA
	s Related to Clinical Trials—Contributed	10:50 a.m.	Evaluation of Risk-Benefit in New Drug
Biometrics Se	ction, Biopharmaceutical Section	10.00 4.111.	Development Using a Global Event Intensity
Chair(s): Yich	uan Zhao, Georgia State University		Index— * Jingli Song, Eli Lilly and Company;
10:35 a.m.	Data Monitoring in Clinical Trials Using		Andreas Sashegyi, Eli Lilly and Company; Steve
	Prediction— Scott Evans, Harvard University;	11 05	Zheng, Eli Lilly and Company
	Lingling Li, Harvard School of Public Health; Lee-Jen Wei, Harvard University	11:05 a.m.	Regression Models for Multinomial Responses with an Example from PCPT—*Kenneth Liu,
10:50 a.m.	Specifications Based on Pharmacokinetic		Merck & Co., Inc.; Alexandra Carides, Merck & Co., Inc.
	Evaluation— * Jose Casas-Finet, MedImmune, Inc.; Harry Yang, MedImmune, Inc.; Iksung	11:20 a.m.	Mixing Negative Binomial Distribution with
	Cho, MedImmune, Inc.; Mark Schenerman, MedImmune, Inc.	77.20 4	Completely Monotonic Functions and Their Applications in Modeling Over-Dispersion Data—
11:05 a.m.	The Exact Distribution of the Heterogeneity Statistic in Meta-Analysis— Brad Biggerstaff, Centers for Disease Control and Prevention;		*Xiaodong Wang, sanofi-aventis; Hanxiang Peng, The University of Mississippi; Ji Zhang, sanofi-aventis
	Dan Jackson, University of Salford	11:35 a.m.	Maximum Likelihood Estimation of the Difference
11:20 a.m.	A Model-Based Assessment of Antitumor Activity for Solid Tumor Xenograft Studies—* Jianrong Wu, St. Jude Children's Research Hospital		between Correlated Poisson Cough Counts—& Xin Yan, University of Missouri-Kansas City; Thomas Bradstreet, Merck & Co., Inc.
11:35 a.m.	Subgroup Weighted Association Testing— *Michael LeBlanc, Fred Hutchinson Cancer Research Center	11:50 a.m.	Negative Binomial Analysis of Hypoglycemia Rates in Diabetic Patients— & Cory Heilmann, Eli Lilly and Company
11:50 a.m.	Ensemble Methods for Classification of Patients for Personalized Medicine Using High-Dimensional	12:05 p.m.	Multivariate Dose-Response Analysis of Ordinal Response Data— & Kao-Tai Tsai, Bristol-Myers

Squibb Company; Karl Peace, George Southern

University

Biomarkers—& Hojin Moon, U.S. Food and

Drug Administration; Hongshik Ahn, Stony Brook University, Ralph L. Kodell, University

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539 CC-355 A ● ② Multiplicity Issues and Possible Solutions in Clinical Trials—Contributed

Biopharmaceutical Section, Biometrics Section Chair(s): Stephen Gulyas, Eli Lilly and Company

10:35 a.m. Gate-Keeping Testing Without Tears—& Jianjun Li, Merck & Co., Inc.; Devan V. Mehrotra, Merck &

Co., Inc.

10:50 a.m. Generalized Gate-Keeping Procedure— Ariful Haque, Novartis Pharmaceuticals; Sanat Sarkar, Temple University

11:05 a.m. Multistage Gate-Keeping Procedures with Clinical Trial Applications—* Alex Dmitrienko, Eli Lilly and Company; Ajit Tamhane, Northwestern University

11:20 a.m. Compatible Simultaneous Confidence Intervals for the Holm Procedure and Other Closed Bonferroni-Based Tests for One-Sided Multiple Comparison Problems—& Frank Bretz, Novartis Pharmaceuticals; Klaus Strassburger, Deutsches Diabetes-Zentrum DDZ

11:35 a.m. A Mixture Model Approach for Estimating the Proportion of True Null Hypotheses and Adaptive Control of FDR—& Ajit Tamhane, Northwestern University; Jiaxiao Shi, Northwestern University

11:50 a.m. Evaluating Subgroup Risks in Trials with Many Subgroups: Issues and Potential Solutions—

* Xiaojiang Zhan, Merck & Co., Inc.; Amarjot Kaur, Merck & Co., Inc.

12:05 p.m. Statistical Challenges in Proof-of-Concept Studies in Photosensitive Epileptics— Norman Bohidar, Johnson & Johnson PRD; Geoff Edwards, Johnson & Johnson PRD; Liwen Xi, Johnson & Johnson PRD; Surya Mohanty, Johnson & Johnson PRD

540 CC-250 C

General Issues in Regression—Contributed

ENAR

Chair(s): Yuting Zhang, Amgen Inc.

10:50 a.m. Efficient Estimation of Population Quantiles in General Semiparametric Regression Models—
Arnab Maity, Texas A&M University

11:05 a.m. Simulation Study Comparing Inverse Probability of Treatment Weighted (IPTW) Estimator and Multiple Regression Model—* Jianmin Wang, RTI Health Solutions; William Irish, RTI Health Solutions

11:20 a.m. Likelihood Ratio Test of Crossover Design Having Unequal Variances— *Yoon-Sung Jung, Kansas State University; Dallas Johnson, Kansas State University

11:35 a.m. Design Based on Interclass Correlation
Coefficients—& Gheorghe Doros, Boston
University

11:50 a.m. A Locally Weighted Regression Approach to
Evaluating the Effects of Smoking Reduction
on Birth Weight—* Jeff M. Szychowski, The
University of Alabama at Birmingham;
J. Michael Hardin, The University of Alabama;
Michael D. Conerly, The University of Alabama;
Lesa L. Woody, The University of Alabama at
Birmingham; Wendy S. Horn, The University of
Alabama at Birmingham

12:05 p.m. Modeling Lateral Position and Control in Driving
Studies of Elderly Populations—* Jeffrey Dawson,
The University of Iowa; Joseph Cavanaugh, The
University of Iowa; K. D. Zamba, The University
of Iowa; Matthew Rizzo, The University of Iowa

541 CC-251 A

Bayesian Nonparametric Modeling and Applications—Contributed

Section on Bayesian Statistical Science

Chair(s): Yeonseung Chung, The University of North Carolina at Chapel Hill

10:35 a.m. Comparing Fits in Nonparametric Bayes Item
Response Models— Kristin Duncan, San Diego
State University

10:50 a.m. A Semiparametric Bayesian Approach to the Generalized Linear Mixed Effects Model—❖ Jing Wang, Louisiana State University

11:05 a.m. Bayesian Inference for a Distribution-Valued
Stochastic Process—* Zhen Wang, The Ohio
State University; Steven N. MacEachern, The
Ohio State University

11:20 a.m. Nonparametric Hierarchical Bayes Analysis of Binomial Data Using Berstein Polynomials—
 *Tingting Zhang, Harvard University; Jun S. Liu, Harvard University

C	Themed Session • Applied Session • Presenter	CC-Salt Palace (Convention Center GA-The Grand America Hotel
11:35 a.m.	Distribution of Random Functional of a Ferguson- Dirichlet Process on the Unit Ball—& Thomas J. Jiang, National Chengchi University; Kun-Lin Kuo, National Chengchi University	11:05 a.m.	Local-Moment Polynomial-Smoothed Histograms with Application to Massive and Pre-Binned Datasets—& Galen Papkov, Rice University; David W. Scott, Rice University
11:50 a.m.	Floor Discussion	11:20 a.m.	Bayesian Isotonic Density Regression— *Lianming Wang, National Institute of
	CC-150 D-F ement Issues in Surveys—Contributed		Environmental Health Sciences; David B. Dunson, National Institute of Environmental Health Sciences
Social Statistic		11:35 a.m.	Spline Confidence Band with Mixing Error in Fixed Design—& Jing Wang, University of Illinois at
	e H. Cohen, National Science Foundation		Chicago
10:35 a.m.	Comparison of the Income Items from the CPS and ACS—& Bruce Webster, Jr., U.S. Census Bureau	11:50 a.m.	Some New Normality Tests Using Kernel Density Estimators—* Yishi Wang, Western Carolina
10:50 a.m.	The Impact of Converted Refusals upon Survey		University
	Estimates: National Health and Nutrition Examination Survey, 1999-2004— Margaret	12:05 p.m.	Floor Discussion
	Carroll, National Center for Health Statistics; Yinong Chong, National Center for Health	544	CC-254 B
	Statistics		nalysis and Variable Selection—
11:05 a.m.	Precanvass Survey for the 2007 Commodity	Contribute	
	Flow Survey— Promod Chandhok, Bureau of Transportation Statistics		ysical and Engineering Sciences, Section on Statistics and ction on Teaching Statistics in the Health Sciences, Section
11:20 a.m.	An Appraisal of the Conduct and Provisional	on Quality and	•
	Figures of the Nigerian Population and Housing		chuang Cao, Eli Lilly and Company
	Census of 2006— Raymond Okafor, University of Lagos	10:35 a.m.	Variable Selection for LDA When n < p— ❖ Matthew Mitchell, Metabolon
11:35 a.m.	Measuring the Quality of Service to Taxpayers in Volunteer Sites—*Kevin Cecco, Internal Revenue Service; Ronald Walsh, Internal Revenue Service; Rachael Hooker, Internal Revenue Service	10:50 a.m.	Detecting Multiple Outliers and/or Mean Vector Shifts in Large Samples of Individual Multivariate Observations—*Joe Sullivan, Mississippi State University
11:50 a.m.	Statistical 'Pre- and Post-Processing' as Integrated into Computer Simulations— & Turkan Gardenier, Pragmatica Corp.	11:05 a.m.	Bayesian Wavelet-Based Despeckling of Ultrasound Medical Images Using the Gauss- Hermite Expansion— S. M. Mahbubur
12:05 p.m.	Floor Discussion		Rahman, Concordia University; M. Omair Ahmad, Concordia University; M. N. S. Swamy,
543	CC-254 A	11:20 a.m.	Concordia University Using an Adaptive Control Filter To Predict the
Nonparam	etric Inference for Functional Data—	11.20 a.III.	Synchronization of Time Series—* Morris
Contribute Section on No	ed nparametric Statistics, ASA		Morgan, Hampton University; Carolyn Morgan, Hampton University
	ay Chaudhuri, National University of Singapore	11:35 a.m.	Statistical Aspects of Marketing Mix Models—
10:35 a.m.	Functional Density Warping— & Zhen Zhang,		❖ Igor Mandel, Analytic Partners
	University of California, Davis; Hans-Georg Müller, University of California, Davis	11:50 a.m.	Evaluation and Selection of Models for Out-of- Sample Prediction When the Sample Size Is Small
10:50 a.m.	Asymptotic Theory of Bivariate Penalized Splines—* Yingxing Li, Cornell University;		Relative to the Complexity of the Data-Generating Process—* Hannes Leeb, Yale University
	David Ruppert, Cornell University	12:05 p.m.	Floor Discussion
		12.00 p.111.	. IOO. DIOOMOSIOII

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Applied Session

Presenter

CC-Salt Palace Convention Center

GA-The Grand America Hotel

11:05 a.m. Characterizing Multivariate Data with High-545 CC-251 E Resolution Human Faces— Dean Nelson, Regression—Contributed University of Pittsburgh at Greensburg; Joe Section on Statistical Computing, Section on Statistical Graphics, IMS Szurek, University of Pittsburgh at Greensburg Chair(s): James Shine, U.S. Army Topographic Engineering Center 11:20 a.m. Graphs in Social Science Texts: We Can and 10:35 a.m. Simple Techniques for Estimation of Additive Should Do Better-*Naomi Robbins, NBR-Rate Regression Models— * M. Brent McHenry, Graphs; Joyce Robbins, Touro College Bristol-Myers Squibb Company; Stuart R. **Longitudinal Multivariate Graphics in the Analysis** 11:35 a.m. Lipsitz, Brigham and Women's Hospital; of Time Management Data—* Jessica M. Scott, Debajyoti Sinha, Medical University of South Brigham Young University; Steven A. Wygant, 10:50 a.m. **Alternative Penalty Functions for Principal** Brigham Young University; Bruce Brown, Components—❖ Trevor Park, University of **Brigham Young University** Florida Generating Data with Identical Statistics but 11:50 a.m. A New Robust Partial Least Squares Regression 11:05 a.m. Dissimilar Graphics: A Follow-Up to the Anscombe Method (RoPLS) and Its Robustness— Asuman Dataset— Sangit Chatterjee, Northeastern Turkmen, Auburn University; Nedret Billor, University; Firat Aikut, Northeastern University **Auburn University** 12:05 p.m. A Note on the Barnett-Cohen Censored 11:20 a.m. Variable Selection in Factor Analysis Regression **Histogram**—**❖** Jong Kim, Portland State and Its Application— * Zenaida F. Mateo, University; Bryan G. Schar, U.S. Census Bureau University of Manitoba 11:35 a.m. Purposeful Selection of Variables in Logistic 547 CC-150 A-C Regression: Macro and Simulation Results— Estimation, Forecasting, and Hypothesis *Zoran Bursac, University of Arkansas for Medical Sciences; C. Heath Gauss, University Testing—Contributed of Arkansas for Medical Sciences; D. Keith Social Statistics Section Williams, University of Arkansas for Medical Chair(s): Nancy Clusen, Mathematica Policy Research, Inc. Sciences; David Hosmer, University of 10:35 a.m. Examination of Two Issues Regarding Electronic Massachusetts Amherst Essay Scoring— Sandip Sinharay, Educational 11:50 a.m. A Realization of the Functionalized General Testing Service; Shelby Haberman, Educational Trichotomy in Logistic Regression—*Ligong Testing Service; Jiahe Qian, Educational Testing Chen, Center for Prostate Disease Research; Service Yongmei Chen, Center for Prostate Disease 10:50 a.m. Statistical Tests for Differential Functioning in Research; Jennifer Cullen, Center for Prostate Parametric Item Response Theory: A Monte Carlo Disease Research **Evaluation of Conventional DFIT Methods and** 12:05 p.m. Floor Discussion a Bootstrap Alternative— Gregory Petroski, University of Missouri-Columbia; Steven J. Osterlind, University of Missouri-Columbia CC-251 D 546 11:05 a.m. Simulation Results of Bias Estimates for Statistical Graphics: Methods and Compositional Data— Don R. Warren, Applications—Contributed University of Texas at San Antonio Section on Statistical Graphics 11:20 a.m. Navigating the Multiplicity of Hypotheses in Chair(s): Deborah Swayne, AT&T Labs - Research **Evaluating Juror Selections**— Bruce Barrett, 10:35 a.m. Visualizing Cluster-Compressed Multivariable and The University of Alabama Multialtitude Atmospheric Data— Daniel Carr, 11:35 a.m. Hypothesis Testing with Lot Quality Assurance George Mason University; Amy Braverman, Jet Sampling (LQAS) Using the Normal Approximation **Propulsion Laboratory** of the Binomial-*David Fitch, Universidad 10:50 a.m. An Exploratory Stroll Along the Beach del Valle de Guatemala; Roberto Molina Cruz, Charlotte Wickham, University of California, Universidad Del Valle de Guatemala Berkeley

11:50 a.m.

Floor Discussion

CC-250 B Statistical Methods and Applications in **Epidemiology—Contributed**

Section on Statistics in Epidemiology

548

Chair(s): Daniel Reyner, Zimmer, Inc

- Application of Johnson System of Distribution in 10:35 a.m. **Gene Selection**—**♦** Florence George, University of South Florida; Kandethody Ramachandran, University of South Florida
- 10:50 a.m. A Computational Approach to Variable Selection in Canonical Discriminant Analysis— * Man Jin, Columbia University
- **Using Surrogate Outcomes for Improving Power** 11:05 a.m. To Detect Gene-Environment Interactions— Tamanna Howlader, Concordia University; Michal Abrahamowicz, McGill University; Yogendra P. Chaubey, Concordia University
- **Extension of the Cohort Analysis for Genetic** 11:20 a.m. Epidemiology Program To Assess Excess Risk of **Cancer**— * Mei Liu, The University of Texas M. D. Anderson Cancer Center; Carol J. Etzel, The University of Texas M. D. Anderson Cancer Center; Michael Scheurer, The University of Texas M. D. Anderson Cancer Center; Melissa Bondy, The University of Texas M. D. Anderson Cancer Center; Sara Strom, The University of Texas M. D. Anderson Cancer Center: Christopher I. Amos, The University of Texas M. D. Anderson Cancer Center
- 11:35 a.m. Length-Biased Sampling in Cancer Screening with Variable Test Sensitivity— Sonya Heltshe, University of Colorado at Denver and Health Services Center; Karen Kafadar, University of Colorado at Denver and Health Services Center
- Comparison of Adaptive Gaussian Quadrature, 11:50 a.m. PQL, and Laplace 6 Estimates of Hierarchical Logistic Models When Comparing Small Incident Rates in Cluster-Randomized Trials— Rafael Diaz, California State University, Sacramento
- 12:05 p.m. Sequential McNemar Tests with Exact Methods— ♦ Jiang Hu, Glotech Inc.; Aiyi Liu, National Institutes of Health; Chengqing (Alan) Wu, National Institutes of Health

CC-255 F 549 Statistical Methods in Health Science Research— Contributed

Section on Statistics in Epidemiology, Section on Teaching Statistics in the Health Sciences

Chair(s): Peter H. Van Ness, Yale University

- 10:35 a.m. Overview of the Odds Ratio and Relative Risk: Inequality, Conversion, Efficiency, and Power of Testing— Peng Liu, U.S. Food and Drug Administration; Debra A. Street, U.S. Food and **Drug Administration**
- A Graphical Method for Assessing Mediating 10:50 a.m. Variables Using Brunswik's Lens Model— *Matthew P. Spackman, Brigham Young University; Dawson Hedges, Brigham Young University; Bruce Brown, Brigham Young University
- 11:05 a.m. **Determining Graft Survival After Clinical Islet** Transplantation: Superior Performance of Extended Cox-Based Models— Abdul Salam, University of Alberta; Peter Senior, University of Alberta; Abdulkadir Hussein, University of Windsor; Patricia M. Campbell, University of Alberta; Kathleen LaBranche, University of Alberta; James A.M. Shapiro, University of Alberta
- 11:20 a.m. BMI, Alcohol, and Colorectal Cancer— Negasi Beyene, Centers for Disease Control and Prevention
- 11:35 a.m. Improving Inference on Diagnostic Tests Without Gold Standard When Auxiliary Information **Is Available—** *Gong Tang, University of Pittsburgh
- 11:50 a.m. Comparisons of Statistical Methods in Analyzing Clinical Data Through Empirical Simulations— *Yongming Qu, Eli Lilly and Company; Lei Xu, University of Wisconsin-Madison; Pandurang M. Kulkarni, Eli Lilly and Company
- **Identifying Patterns of Longitudinal Data Set** 12:05 p.m. with Meaningful Inflated Missing Values: A Case Study Combining Data Mining and Statistical Techniques—❖ Hua Fang, University of Nebraska-Lincoln; Kimberly A. Espy, University of Nebraska-Lincoln; Maria L. Rizzo, Bowling Green State University; Honggang Wang, University of Nebraska-Lincoln

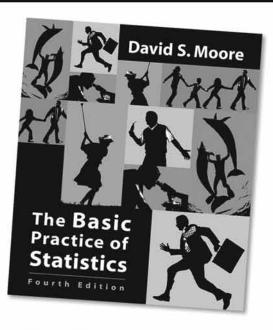
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Name	Session	Name	Session	Name	Session
Aalen, Odd O	40	Aliaga, Martha	404	Andrews, Sandra	209
Abayomi, Emilola	343	Allaham, Rima	535	Andrieu, Christophe	452
Abbott, Owen	448	Allen, Andrew	245	Ane, Cecile	188
Abdo, Zaid	188	Allen, Shannon E	49	Ang, Kok Long	154
Abebe, Asheber	135	Allen, Walter R	394	Angers, Jean-François	509
Abebe, Fisseha	416	Allenby, Greg M	237	Angielczyk, Kenneth D.	294
Abowd, John	82, 365	Allison, David B	286, 393, 502	Ankenman, Bruce	29
Abraham, Anita	176	Allore, Heather G46	6, 168, 331, 515	Annis, David H	391
Abrahamowicz, Michal	548	Alloway, James	294	Annoni, Paola	454
Abrevaya, Jason	295	Allred, Kendall	515	Anthony, Robert	266
Abugov, Robert	145	Allred, Randy	154	Apanasovich, Tatiyana	412
Adams, Heather	102	Allshouse, Amanda	154	Apley, Daniel W	403
Addona, Vittorio	243, 343	Allshouse, William	343	Arab, Ali	386
Adekpedjou, Akim	95, 243	Almirall, Daniel	234	Aram, Luke	329
Adeleke, Ismaila	513	Alnoshan, Abdullah	68	Aravena, Jorge	29
Adriana, Perez	479	Alosh, Mohamed	94	Arceneaux, Taniecea	152
Afifi, Abdelmonem A	62	Altan, Stan	93	Archer, Kellie J	196
Afshartous, David	537	Alterman, Toni	209	Arcones, Miguel A	174
Agarwal, Deepak	189	Altman, Naomi	102	Arena, Vincent C	531
Agarwal, Pankaj	321	Altstein, Lily	24	Arnold, Douglas L	20
Aggour, Kareem	200, 425	Amarasingham, Asohan	534	Arora, Vipin	133
Aguilar-Salinas, Carlos	502	Amaratunga, Dhammika	172, 223, 506	Arroway, Pam	175
Aguirregabiria, Victor		Amatya, Ramesh N	198	Aryal, Subhash	310
Ahern, Charlotte H		Ambrosius, Walter T	183	Asgharian, Masoud	243
Ahlberg, David	294	Amemiya, Yasuo	200	Ash, Arlene	169, 208
Ahmad, M. Omair		Amit, Ohad	456	Ash, Stephen	71, 208
Ahmed, S. Ejaz	442	Ammann, Caspar	185	Ashby, Avery J	403
Ahn, Chaehyung	25	Amos, Christopher I	209, 292, 548	Ashcraft, Lynn	199
Ahn, Chul	323	An, Di	191	Asher, Jana2,	, 170, 305, 441, 443
Ahn, Hongshik	241, 537	Anand, Suraj	498	Ashley, Deanna	152
Ahn, Sung K	88	Anderson, Amber	464	Asiala, Mark	99
Ahnn, Sang	420	Anderson, Aparna B	65	Asparouhov, Tihomir	72, 153, 192
Aikut, Firat	546	Anderson, David	28	Astola, Jaakko	471
Airoldi, Edoardo M	124	Anderson, Dianne	42	Aston, John	262, 390, 494
Ait-Sahalia, Yacine	485	Anderson, Keaven M	37, 334	Atchade, Yves F	452
Akinsete, Alfred A	26, 343	Anderson, Kirk	218, 465, 511	Atchley, William R	245
Akritas, Michael G	289	Anderson, Michael P	110	Atias, Glenn	479
Alam, Mohammed K	198, 536	Anderson, Michael S	69	Atlas, Susan R	283
Albatineh, Ahmed	112	Anderson, Michael T	256, 306	Au, Tom	487
Alber, Susan	337	Anderson, Tom	279	Auer, Richard	69
Albert, Paul	104	Anderson-Cook, Christine.	483	Austin, Matthew	456
Aldworth, Jeremy	70	Andersson, Eva	113	Avorn, Jerry	173
Alegria, Margarita	227	Ando, Yuki	16	Babanezhad, Manooche	hr489
Alemayehu, Demissie	404	Andrei, Adin-Cristian	505	Baccini, Michela	113
Aleong, Chandra	31	Andrei, Alina	380	Bacon, Lynd	381
Aleong, John	31, 512	Andrew, Michael	154, 209	Baek, Inyoung	
Alfaro, Carola	323	Andrews, Beth	136	Baek, Songjoon	537

Name	Session	Name	Session	Name	Session
Baer, Jim	479	Barron, Andrew	107	Bentley, Donald	171, 385
Baggerly, Keith	120	Barron, Martin	115	Bentley, Jim	
Bahnsen, Patricia		Barrón, Yolanda	397	Berchialla, Paola	
Bai, Haiyan		Bartholomew, Mary	154	Berding, Christoph	
Bai, Xinxin2		Bartroff, Jay		Berg, Emily	
Bai, Zhidong	100	Bashi, Malda		Bergen, H. Robert	
Bailer, A. John	447	Baskin, Robert		Berger, James129, 287, 3	
Bailey, Barbara	420, 512	Bass, Eric	235, 323, 458		518, 532
Bailey, Mark	434	Basu, Anirban92	, 160, 299, 347, 429	Berger, Martijn P.F	64, 310
Bailey, Theodore	204	Basu, Sanjib	202	Berger, Roger	247
Bailey-Kellogg, Chris	68	Batcher, Mary	84	Berglund, Pat	
Baines, Paul	367	Bates Prins, Samantha	266	Berglund, Susanne R	285, 506
Bajari, Pat	225	Bathke, Arne	154, 249, 257	Bergquist, Mandy	471
Bajorunaite, Ruta	420	Battaglia, Michael P	405	Berhane, Kiros	113
Baladandayuthapani, Veera	23, 85	Baughman, Andrew	209	Berhane, Zekarias	503
Balakrishnan, Suhrid	124	Baum, Chuck	154	Berlin, Jesse A	
Baldwin, Clinton	421	Baumgartner, Richard	477	Berliner, L. Mark	518
Baldwin, James A	266	Bautista, Dianne	532	Bernard, Allister	313
Ball, Patrick	116	Bayarri, Susie	271, 399, 461, 532	Bernstein, David	33
Baltagi, Badi H	295	Bayman, Emine O	337	Bero, Joe	
Banaszak, David	282	Beaghen, Michael	99	Berrett, Candace	165, 386
Bandeen-Roche, Karen46, 2	291, 359	Bean-Mayberry, Bevanr	ne374	Berrocal, Veronica J	190, 512
Bandulasiri, Wathurawa A	.69, 343	Beasley, Mark	393	Berry, Donald A	277, 488
Bandyopadhyay, Dipankar	332	Beauchamp, Marie-Eve	376	Berry, Scott	155, 373
Bandyopadhyay, Soutir	382	Beaumont, Jean-Franço	is252	Berthet, Philippe	508
Bandyopadhyay, Tathagata	23	Beck, Cole	69	Beyene, Negasi	549
Banerjee, Moulinath	6, 29	Becker, Patricia	298	Beyler, Nicholas	207
Banerjee, Pranab	424	Beckett, Laurel	426	Bhagavatheeswaran, Prabhu	
Banerjee, Samprit	286	Bèdard, Myléne	228	Bhat, K. Sham	454
Banerjee, Shailendra	426	Bedrick, Edward J	283	Bhattacharjee, Manish C	
Banerjee, Sudipto	.60, 112	Begg, Colin B	100, 357	Bhattacharyya, Amit	
Bang, Heejung	.76, 397	Behseta, Sam	147	Bhaumik, Dulal K	
Bankier, Michael	330	Bekele, Benjamin N	467	Biau, Gerard	
Banks, David2, 230, 317, 4	32, 447,	Bélanger, Yves	389	Bickel, Peter	
	450, 482	Beletsky, Dmitry	18	Biddle, Deborah W	
Banks, H. T		Belin, Thomas	58, 209, 264	Biemer, Paul	
Barbe, Philippe		Bell, David	321	Biesheuvel, Cornelis	
Barber, Jarrett		Bell, Michelle	33	Bigelow, Jamie	
Bard, Suzanne		Bell, William R	320, 407	Bigelow, Robert	
Bargen, Jason		Bell-Ellison, Bethany	343	Biggerstaff, Brad	
Barlas, Suna		Bembom, Oliver	89	Bijnens, Luc	
Barlow, William E76, 168, 2		Bendjilali, Nasrine	111	Bilder, Christopher R	
	351, 439	Bengtsson, Thomas	275	Bilisoly, Roger	
Barnard, John		Bennett, David	426	Billard, Lynne	
Barr, Christopher		Bennett, James	424	Billor, Nedret	
Barr, MacReadie		Bennett, Travis	329	Bin Muhaya, Fahad	
Barrett, Bruce	547	Bentler, Peter M	470	Binder, David	364
				I	

Name	Session	Name	Session	Name	Session
Bingham, Derek	9	Borrund, Lori	35	Brown, Lawrence D	38, 107, 121, 261
Binkowitz, Bruce	296	Boscardin, W. John	58, 361, 534	Brown, Matthew S	534
Birch, Jeffrey B	380, 487	Bottenbley, Joost	28	Bruce, Antonio	368
Bischak, Diane P	403	Botts, Carsten	147	Bruggemann, Rainer	454
Biswas, Pinaki	103	Boucher, Kenneth	209	Bryant, Richard	209
Biswas, Swati	277	Boulanger, Bruno		Bu, Tian	
Bittner, Rachel		Bourgon, Richard		Bubb, Robert	
Black, Laura		Bowden, R. L		Buettner, Thomas	
Black, Paul K	231	Bowen, James		Bühlmann, Peter	
Blackwelder, William C		Bowen-Morris, Heidi	343	Buja, Andreas	
Blahus, Petr		Bowers, Ashley	479	Bunea, Florentina	
Blakesley, Richard	468	Bowman, Christopher		Bura, Efstathia	
Bland, Cynthia		Boyd, Jason L		Burch, Brent	
Blankenship, Erin		Boyle, Diane K		Burchfiel, Cecil M	
Blei, David		Boyle, James P		Burdick, Richard	
Blitzstein, Joseph		Bradley, Ralph		Burgess, Jr., James F	374
Block, Hans		Bradlow, Eric T		Burkom, Howard S	
Blodgett, Bob		Bradstreet, Thomas		Burnham, Gilbert	
Bloomfield, Peter		Brady, Barbara		Burnham, Tom	
Bloomquist, Erik		Branscum, Adam		Burrill, Gail	
Blum, Olivia		Brant, Larry J		Bursac, Zoran	
Blume, Jeffrey D		Braun, Thomas M		Burt, Vicki	
Boatwright, Peter		Braverman, Amy		Bushar, Harry F	
Bobbitt, Patrick		Bray, Robert		Bushery, John M	
Bocci, Cynthia		Brazauskas, Vytaras		Bussman, Sammuel F	
Bock, David		Brazell, Jeff		Butani, Shail J	
Bock, Mary Ellen		Breazel, Ellen		Butar Butar, Ferry 6	
Bodesky, Steven		Breen, Nancy		Buvaneswari, A	
Bodner, Todd		Breiter, David		Buxton, Bruce	
Boeh, Steve		Bremer, John		Buzoianu, Manuela	
Boehm, Rona		Brenneman, William		Cabrera, Javier	
Boehnke, Michael		Bretz, Frank		Cadre, Benoit	
Boevelstad, Hege Marie.		Brick, J. Michael		Caffo, Brian S	
Bofin, Anna M		Brittingham, Angela		Cai, Airong	
Bohidar, Norman		Brock, Guy		Cai, Bo	
Bonangelino, Pablo		Brockwell, Anthony E		Cai, Jianwen	
Bond, Marjorie		Brockwell, Peter J		Cai, Liming	
Bondarenko, Irina		Brodsky, Boris		Cai, Rong	
Bondell, Howard D		Broene, Pam		Cai, Tianxi	
Bondy, Melissa		Brookhart, M. Alan		Cai, Tony 7, 43, 107,	
Bonzo, Daniel		Brooks, Ashley			, 399, 453, 496, 518
Boone, Edward		Brown, Bruce31, 281, 3		Cai, Weixing	26
Boos, Dennis	· ·	Brown, Emery N		Cajka, James	125
Borgan, Ornulf		Brown, G. Gordon		Calder, Catherine A	
Borkowf, Craig B		Brown, James		Calder, Matthew	
Borkowski, John J		Brown, Janice		Call, Kathleen	
Borle, Sharad		Brown, Joseph P		Cameron, Kirk	32
		l ' '		l	

Name	Session	Name	Session	Name	Session
Campbell, Christopher J	116	Chakicherla, Anu	143	Chen, Bingshu	243, 503
Campbell, David A		Chakraborti, Subhabrata	294	Chen, Chia-Cheng	
Campbell, Greg	323, 408	Chakraborty, Bibhas	144, 474	Chen, Chiamin	154
Campbell, Patricia M		Chakraborty, Sounak		Chen, Chien-Feng	198
Cangelosi, Amanda R		Chakravartty, Arunava		Chen, Chih-nan	
Cannon, Ann		Chaloner, Kathryn		Chen, Chih-Rung	248
Cano, Stephanie	256, 306	Chambers, Ray	13	Chen, Chun-houh	
Cantor, Alan	272	Champ, Charles	30	Chen, Cong	246, 334
Cantor, David	115	Champine, Joseph		Chen, Dung-Tsa	272
Cao, Dachuang	334, 544	Chan, Elisa	455, 479	Chen, Guorong	154
Cao, Jin		Chan, Ivan	418	Chen, Huanyu	
Cao, Xiaofan	276	Chan, Wai	53, 339	Chen, Hubert J	474
Capanu, Marinela	357	Chan, Wenyaw	33, 92	Chen, Huichao	480
Cappelleri, Joseph	393	Chandhok, Promod	542	Chen, James J	154, 537
Carides, Alexandra	538	Chandra, Hukum	13	Chen, Jiahua	26, 31
Carley-Baxter, Lisa	253	Chandran, Raj	343	Chen, Jiehua	55
Carlin, Brad		Chang, Chung		Chen, Jinbo	380
Carlson, Barbara L		Chang, Chung-Chou H		Chen, Jingjing	
Carlson, Richard		Chang, Chung-Kuei		Chen, Jinsong	
Carmack, Patrick		Chang, Ilsung		Chen, Kun	
Carpenter, Mark		Chang, Jane		Chen, Kun	
Carr, Daniel		Chang, LinChiat		Chen, Li	
Carriere, Kimmie C		Chang, Myron		Chen, Li	
Carriquiry, Alicia		Chang, Sheng-Mao		Chen, Li	
Carroll, Margaret		Chang, Yanping		Chen, Ligong	
Carroll, Raymond J		Chang, Yi-Ping		Chen, Lihua	
Carter, Andrew		Chang, Yu-Ling		Chen, Ling	
Carter, Nathan		Chao, Chang Tai		Chen, Lisha	
Carter, Randolph L		Chapman, David W		Chen, Manhua	
Carvalho, Carlos		Chapman, Judith-Anne W		Chen, Michael	
Carver, Robert		Chappell, Richard		Chen, Min	
Casas-Cordero, Carolina		Charles, Luenda E		Chen, Ming-Hui202,	
Casas-Finet, Jose		Charnigo, Richard		<i>y</i>	497
Case, Heather		Chatrath, Arjun		Chen, Pai-Lien	199
Casiple, Arlene		Chatterjee, Arunendu		Chen, Peiqi	154, 484
Castelloe, John		Chatterjee, Ayona		Chen, Peng	67
Catellier, Diane		Chatterjee, Nilanjan		Chen, Pinyuen	26
Cavanaugh, Joseph24		Chatterjee, Sangit		Chen, Qixuan	501
Cecco, Kevin		Chatterjee, Snigdhansu		Chen, Rong	180
Cela Diaz, Fernando		Chaubey, Yogendra P		Chen, Shengbao	
Celik, Mete		Chaudhuri, Sanjay		Chen, Sining	
Cernauskas, Deborah		Chauhan, Chand		Chen, Song Xi	27, 257, 479
Cernohous, Paul		Chelune, Gordon J		Chen, Tai-Tsang	
Cesa-Bianchi, Nicolò		Chen, Aiyou		Chen, Te-Ching	
Çetinyürek, Aysun		Chen, Andrew		Chen, Ting-Li	
Ceyhan, Elvan		Chen, Baoline		Chen, Wei	
Chai, Wei		Chen, Bei		Chen, William	
<u> </u>	120	C1.011, D01	250	1	

Name	Session	Name	Session	Name	Session
Chen, Xinjia	29	Cho, Hyemin	294	Clark, Christine	538
Chen, Xun	379	Cho, Iksung	25, 109, 537	Clark, Cynthia	315, 364
Chen, Yian	23	Cho, Meehyung	244, 470	Clark, James	321
Chen, Ying	143	Cho, Moon Jung		Clark, Jay	71, 428
Chen, Yong	22	Cho, Sang-Hoon	63	Clark, Shaunna	72
Chen, Yongmei	545	Cho, Sinsup	88	Claus, Elizabeth B	117
Chen, Younan	378	Cho, Yoonjin	419	Clayton, Murray K	286
Chen, Yuguo	460	Choi, Dongseok154, 185,	, 209, 212, 282,	Clifton, Christopher	98
Chen, Zhao	23		294, 343	Clinton, Sarah	455
Chen, Zhen	96	Choi, Hwanseok		Clusen, Nancy	547
Chen, Zhimin	340	Choi, Jai W		Clyde, Merlise A	1, 20, 59, 97, 138,
Chen, Zhongxue	154	Choi, Jungsoon			147, 190, 308
Cheng, Aili	378	Choi, Taeryon		Cnaan, Avital	
Cheng, Cheng	142	Choi, Yunsoo		Cobb, George	
Cheng, Chunrong	374	Chomtee, Boonorm		Cochran, James	
Cheng, Dunlei	337	Chon, Yun		Coffey, Christopher S	
Cheng, Heng-Wei	343	Chong, Yinong			281, 286, 335
Cheng, Jie	285	Choochaow, Kamolchanok.		Coffey, Todd	
Cheng, Jing	234	Chou, Youn-Min		Cofield, Stacey	
Cheng, Philip E	390	Chow, Daniel		Cohen, Aaron J	
Cheng, Po-Yung	34, 113	Chow, Mosuk		Cohen, Michael L	
Cheng, Qinyi	416	Chow, Shein-Chung		Cohen, Michael P	
Cheng, Simon	381	Chowdhury, Dhuly		Cohen, Paul	
Cheng, Tsung-Lin	111	Chowdhury, Sadeq		Cohen, Stephen B	
Cheng, Tzu-Chang	251	Christensen, Nelson		Cohen, Steve H	
Cheng, Yi	244, 488	Christensen, William		Colaianne, James	
Cheng, Yu	420	Christian, Leah M		Cole, Rob	
Chervoneva, Inna	145, 272	Christie-David, Rohan		Coleman, Mark	
Chesley, Stephen E	394	Christman, Mary		Collard-Wexler, Allan	
Chesnut, Lorie W	515	Christmann, Andreas		Collings, Patti	
Chesnut, Thomas	207	Christou, Nicolas		Collins, David	
Cheung, Ken	457	Chromy, James R	125, 389, 427	Collins, Linda	
Cheung, Ying-Kuen K	220	Chu, Annie	32, 386	Colopy, Mike	
Chi, George		Chu, Clara		Conerly, Michael D	
Chi, Yueh-Yun	343	Chu, Haitao		Cong, Lei	
Chi, Yunchan	154, 289	Chu, Jianxiong		Conlin, Craig	
Chi, Zhiyi	534	Chua, David		Connett, John	
Chiang, James	411	Chuang-Stein, Christy		Connor, Jason	
Chib, Siddhartha	361	Chun, Hyonho		Connors, Alanna	
Chibnik, Lori B	209	Chung, Hie-Choon		Conomos, Margaret	
Chihara, Laura	303	Chung, Moo K		Conrad, Frederick	
Childs, Jennifer	152	Chung, Yeonseung		Conti, David	
Chin, Chang-Ho	403	Chung, Younshik		Cook, Andrea	
Chinchilli, Vernon	409	Church, Timothy R		Cook, Dianne	
Chipman, Hugh	4, 308	Cintron-Arias, Ariel		Cook, John D	
Chmiel, Helen	530	Citro, Constance F		Cook, Nancy	
Cho, Hokwon	333	Claeskens, Gerda	226	Cook, Richard J	248, 426, 517

Name	Session	Name	Session	Name	Session
Cook, Samantha	397	Curb, David J	209	De Gruttola, Victor	466
Cook, Thomas	133	Curry, Ross	125	de Leon, Alexander R	65
Cooley, Daniel	321	Curtin, Lester	35, 259	de Lima, Marcos J	277
Coombes, Kevin		Curtiss, Phyllis	240, 511	De Pillis, Lisette G	415
Cooper, Gregory F	109, 318	Cutler, Adele	144	de Wolf, Virginia A	368
Cooper, Linda		Cutter, Gary	22, 201, 286	Deal, Allison	
Copeland, Kennon	35	Czajka, John	184, 462	Dean, Angela	29, 190, 422
Copello, Elizabeth	152	Dabney, Alan	56	Dean, Charmaine	182, 422
Corcoran, Chris	11	Dagne, Getachew	381	Decady, Yves J	178
Cork, Daniel	255	D'Agostino, Sr., Ralph 1	B270, 371, 480	Dehkordi-Vakil, Farideh	541
Cornwell, Derekh	116	Dagum, Paul	279	del Castillo, Enrique	222
Corradetti, Roberto	383	Dahl, David B	313	Delaigle, Aurore	121
Cosmatos, Dennis	105, 419	Dahl, Joachim	177	Delaney, James	204
Costenbader, Karen H	209	Dai, Luyan	137, 476	Deley, John P	101
Cotter, Dennis	248	Dai, Ming	193	Delongchamp, Robert R	154
Cowles, Mary K	202, 337, 484	Dancik, Garrett	505	Demirhan, Eren	382
Cox, Brenda	513	Dandekar, Ramesh	462	Demirkale, Cumhur	283
Cox, Christopher	420	Dang, Xin	540	Demirtas, Hakan	468
Cox, Dennis D	22	Daniel, Shoshana	289	Demnati, Abdellatif	330
Cozen, Wendy	292	Daniels, Michael	19, 147, 361	Deng, Lijuan	235
Craig, Bruce	68, 269, 449	Darvish, Alireza	478	Deng, Shibing	506
Craigmile, Peter F	291, 382	Dasgupta, Abhijit	272	Deng, Wei	198, 378
Crainiceanu, Ciprian M. 14	6, 359, 395, 426	Dasgupta, Anirban	121	Deng, Xinwei	478
Crane, Heidi M	287	Dasgupta, Tirthankar	317	Deng, Yihao	111
Craney, Trevor	29	Dass, Partha	153	Denley, Kimberly	290
Creecy, Robert H	82	Dass, Sarat	205, 516	Denniston, Maxine	324
Creel, Darryl	341, 342	Datta, Somnath	10, 469	Depinay, Jean-Marc	109
Crespi, Catherine M	508, 519	Datta, Sujay	328	DePrimo, Sam	154
Cressie, Noel	18, 55, 321	Datta, Susmita	10	Derleth, Ann	278
Crews, Kimberly	315	Davern, Michael	159, 170, 239, 298	Desgagne, Alain	343, 509
Crimin, Kimberly	334	David, Martin	184	Desjardins, Sophie	343
Cronin, Joseph	208	Davidian, Marie	536	Desmond, Renee	245, 383
Crotty, Michael	47	Davidoff, Amy J	179	Desmone, Rosanne	527
Crovella, Mark	449	Davis, Cynthia J	131	DeSouza, Cynthia	235
Crowder, Nathan	343	Davis, Ginger	109	Dette, Holger	
Crunk, Steven	413	Davis, Jerry		Devarajan, Karthik	469
Cubadda, Gianluca	88	Davis, Karen		Dever, Jill	
Cuff, Carolyn K		Davis, Linda J		Devine, Owen	
Cui, Lu		Davis, Pauline		Devlin, Bernie	
Cui, Xinping	27	Davis, Richard A		Dewe, Walthère	
Cui, Yue		Davis, Wade		Dexter, Nancy	
Cullen, Jennifer		Dawson, Jeffrey		Dey, Dipak59, 9	
Cullings, Harry		Day, Charles		DeYoe, Edgar A	
Culp, Mark		Day, Roger		Dhar, Sunil K	
Cumberland, William G		Dayan, Gustavo H		Di, Chongzhi	
Cunningham, Alastair		De Blasi, Pierpaolo		Diawara, Norou	
Cunningham, David	125	De Bondt, An	506	Diaz, Rafael	548

Name	Session	Name	Session	Name	Session
Diaz-Tena, Nuria	153	Donohoe, Dennis	273	Edlefsen, Paul	367
Dickey, David	146, 507	Donohue, Michael	187, 284	Edmonds, Jo	154
Diehr, Paula	278, 477	Doocy, Shannon	441	Edwards, Don	47, 106
Dietz, E. Jacquelin	91	Doorn, David J	247	Edwards, Geoff	539
Dietz, Zach	475	Dorai-Raj, Sundar	68	Edwards, Lloyd J	176
DiGangi, Samuel	209	Dorazio, Robert	326	Edwards, Melanie	343
Dignam, James	202	Dorfman, Alan	3	Edwards, Sherm	208
Dillman, Don	61	Dorman, Karin	466, 505	Efird, Jimmy	299
Ding, Jie	387	Doros, Gheorghe	540	Efromovich, Sam	139
Ding, Jimin	83	Dotson, Jeffrey	237	Eftim, Sorina	33
Ding, Keyue	248	Dowd, Michael	372	Egger, Marlene	62
Ding, Li	235	Downen, Letitia	244	Ehrenthal, Deborah	209
Ding, Lianghao	63	Draghicescu, Dana	13	Eichhorn, Benjamin H.	500
Ding, Meichun	467	Draper, David	486	Eick, Stephen	132
Ding, Shouluan	286, 294, 383	Dravid, Bharat	328	Eickhoff, Jens	419
Ding, Yu		Drechsler, Joerg	191	Eickmeyer, Kord	384
Ding, Yuejing	245	Du, Meng	283	Eisen, Ellen	33
Dingus, Cheryl	29, 422	Du, Pang	193	Eklund, Jana	320
Dinov, Ivo D		Duan, Fang	294	Elashoff, David A	62
Dinwoodie, Ian	460	Duan, Fenghai	283	Elashoff, Robert	331
Dion, Sarah M	388	Duan, Naihua		Ellahham, Samer	28, 535
Diong, Cheong Hoong.		Dubin, Joel	236	Ellenberg, Jonas H	259
DiRienzo, A. G		Dubnicka, Suzanne		Ellenberg, Susan S	
DiSogra, Charles		Duchesne, Thierry		Elliot, Duncan	
Divers, Jasmin		Duckworth, William M		Elliott, Alan	254
Dixon, Philip	75, 377	Dudewicz, E. J	205	Elliott, Marc N	397
Dmitrienko, Alex		Dudoit, Sandrine		Elliott, Michael R	153, 227, 501
Do, Dzung V	291	Dukic, Vanja	185, 202, 297	Ellis, Carla	321
Dobler, Carolyn P	91	DuMouchel, William	181	Ellonen, Noora	209
Dobra, Adrian	1	Dunbar, Stephanie	145	Elobeid, Mai A	393
Dodge, Hiroko	209	Duncan, Kristin	541	Elston, Robert C	39
Dodoo, Martey	148	Dunson, David B19	9, 96, 97, 258, 311,	Eltinge, John L	36, 41, 164
Doerge, Rebecca	363		461, 497, 498, 543	Emerson, John	27, 242
Doganaksoy, Necip		Durbin, John		Emerson, Scott	503
Dohrmann, Sylvia	125	Durkalski, Valerie	94	Enders, Felicity B	254, 348
Doi, Jimmy A	244	Duty, Paul	471	English, Edward	125, 217, 253
Doig, Stephen	140	E, Lidong	333	Ensor, Katherine	472
Dolson, David	388, 448	Eakin, Mark	200	Enstrom, Betsy	148
Dominici, Francesca	5, 33, 311	Easley, Kirk	387	Epstein, Michael	491
Donahue, Rafe	69	Ebisu, Keita	33	Erickson, Stephen	
Dong, Chunrong	285	Eby, L. Marlin	175	Ericson, Leah	207
Dong, Jin	112, 200, 340, 507	Eckel, Sandrah		Ernst, Lawrence	36, 288, 389, 428
Dong, Jun		Eckel-Passow, Jeanette E.	380	Esan, Ebenezer	513
Dong, Qian	538	Eckman, Stephanie		Eschrich, Steven	272
Dong, ZhiYuan	343	Eddy, William F		Escobar, Luis	203
Donnelly, Peter	7	Eden, Uri		Eskandar, Emad	534
Donner, Allan	519	Edland, Steven	536	Eskridge, Kent	66, 154

Name	Session	Name	Session	Name	Session
Espeseth, Amy S	392	Feldman, Barry	279	Fraker, Shannon	113
Espy, Kimberly A		Felkner, John		Francis, Damion	152
Esserman, Denise A		Fellegi, Ivan P	394	Frangakis, Constantine E	113, 205
Ettner, Susan L	148	Feng, Chunyao	337	Frank, Julieta	474
Etzel, Carol J	92, 548	Feng, Shibao		Frank, Luis	294
Eudey, Thea	154	Feng, Wentao		Frank, Ye	154
Evans, John		Feng, Ziding	92, 371, 519	Frankel, Martin	125
Evans, Leonard	53	Ferkingstad, Egil		Franklin, Anthony	
Evans, Scott	537	Ferrari, Davide		Franklin, Christine	91, 268
Everson, Michelle	206	Ferreira, Marco	410	Franklin, Sarah	153
Ezzati-Rice, Trena	414	Ferrer, Marc	392	Fraser, Donald A.S	
Faerber, Jennifer	531	Fetter, Matthew J	330	Frechtel, Peter	
Fagerland, Morten W	110	Feuerverger, Andrey	171	Fredette, Marc	203
Fahimi, Mansour		Fielden, Tom		Freedman, Laurance	85
Fahrmeir, Ludwig		Fields, Paul	140, 240	Freeman, Daniel H	333
Fairclough, Diane		Fienberg, Stephen		Freeman, Ellen W	
Fairley, William B			191, 443, 516	French, Benjamin	92
Falk, Eric		Filiaci, Virginia	243	French, Brian	
Fallin, Daniele	357	Finch, Holmes	390	Frey, Jesse	
Famoye, Felix		Finch, Stephen J	241	Fried, Linda	
Fan, Chunpeng		Findley, David	262, 431	Friedman, Alan	68
Fan, Guangzhe		Fine, Jason	6, 100, 420	Friedman, Jerome H	354
Fan, Jianqing57, 10		Fink, Aliza	292	Frigessi, Arnoldo	
, 10	276, 485	Finkelstein, Dianne M	10, 304	Frisén, Marianne	
Fan, Ruzong	67	Finley, Andrew	60, 112	Froelich, Amy	
Fan, Shenghua (Kelly)	284, 457	Fisher, Marian	133	Fruehwirth-Schnatter, Sylvi	
Fan, Xiaodan	421	Fisher, Robin	71	Frydman, Halina	
Fan, Yingying	107, 276, 485	Fitch, David	547	Fu, Haoda	
Fan, Zhaozhi	533	Fitchett, Stephanie	343	Fu, Rongwei (Rochelle)	337, 535
Fan, Zizhong	264	Fitzgerald, Mark	231	Fuchs, Marek	207
Fang, Hao	381	Fitzmaurice, Garrett	151	Fuentes, Montserrat	
Fang, Hong-Bin	370	Flack, John M		Fulcomer, Mark C	294
Fang, Hua	549	Flanagan, Patrick	479	Fuller, Wayne	207, 252, 520
Fang, Yixin	23	Flegal, James	475	Funamoto, Sachiyo	
Fang, Yue	474	Flikkema, Paul	321	Furman, Edward	375
Fardo, David	536	Flores Cervantes, Ismael.	153, 388	Furrer, Reinhard	185
Farnsworth, Valerie	72	Flournoy, Nancy	260, 471	Gabrosek, John	240
Farr, Heather	448	Follmann, Dean	417	Gabrys, Robertas	294
Fasoula, Vasilia	154	Fong, Duncan K.H	425	Gadbury, Gary L	
Faulkner, James R	503, 512	Fonnesbeck, Christopher	326	Gage, Linda	
Fay, Robert9	99, 178, 224, 305	Forgette, Richard	255	Gail, Mitchell H	117
Fazzari, Melissa	241	Forsman, Eric	266	Gaines, Leonard	
Fecso, Ron	12	Forzani, Liliana	17	Gajewski, Byron	
Fedorov, Valeri V	260, 334	Foster, Dean	27, 234	Galke, Warren	
Fedorowicz, Adam	343	Foster, Misty	70	Gallagher, Peter T	
Feiveson, Alan	471	Foulkes, Mary A	451	Gallo, Paul	
Fekedulegn, Desta	209	Fox, James A	255	Galstyan, Aram	

Name	Session	Name	Session	Name	Session
Gamst, Anthony	187	Genton, Marc	185, 263, 377	Gold, David	59
Gandhi, Bodapati V.R	290	George, Edward I	4, 308	Gold, Diane R	376
Ganesh, Nadarjasund	501	George, Florence	548	Gold, Richard H	62
Ganeshan, Ram	65	George, Thomas	30	Goldberg, Judith D	34, 119
Gangnon, Ronald E	183	Gerow, Ken	281	Goldberg, Zelanna	285, 506
Ganguli, Bhaswati	33	Gertson, David W	534	Goldin, Jonathan	534
Ganguli, Mary	209	Gerzoff, Robert	28	Golding, Geoffre B	188
Ganji, Gopinath	154	Ghebregiorgis, Ghideon	S104	Goldschneider, Jill	335
Ganju, Jitendra	281	Ghosh, Debashis	20, 126	Goldsmith, Charlie	62, 254
Gannaz, Irene	382	Ghosh, Joyee	147	Golin, Carol E	489
Gao, Chunwang	29	Ghosh, Kaushik	499	Gomatam, Shanti	323
Gao, Long-Long	335	Ghosh, Kaylan	156, 296, 430	Gomeni, Roberto	14
Gao, Ping	418	Ghosh, Malay	326, 427	Gonzalez, Gloria	394
Gao, Xiaoming	137	Ghosh, Pulak	409, 467	Gonzalez, Jeffrey	36, 479
Gao, Yonghong	273	Ghosh, Samiran	189	Gonzalez, Jr., Joe Fred	341
Garcia, Philip	474	Ghosh, Souparno	185	Gonzalez-Farias, Graciela	200
Garczarek, Ursula	329	Ghosh, Sucharita	512	Goodall, Colin	318
Gard, Nicholas	343	Ghosh, Sujit96, 1	138, 289, 498, 532	Goodchild, Michael	529
Gardenier, John	47	Ghosh, Sunita	64	Goos, Peter	279
Gardenier, Turkan	542	Ghoshal, Subhashis 97, 1	103, 149, 287, 338	Gordon, Alexander	143
Gardiner, Joseph C	289	Ghosh-Dastidar, Bonnie.	92, 535	Gordon, Derek	241
Garding, Gina		Giannakouros, Panayotis		Gordon, Nancy	12
Gardner, Ian		Gibbons, Robert D		Gordon-Strachan, Georgiar	
Garrett, Karen		Gilbert, Ethel		Gottwald, Melissa	
Garutti, Claudio	496	Gilbert, Richard	424	Gotway-Crawford, Carol	529
Gassmann-Mayer, Cristiana		Gilbride, Timothy	314	Gould, A. Lawrence	
Gastwirth, Joseph L		Gile, Krista		Gould, Robert	
Gatsonis, Constantine		Gill, Brian P	316	Gousen, Sarah	288
Gauss, C. Heath		Gill, Thomas	331	Govindarajulu, Usha	
Gaydos, Brenda	130	Gillen, Matt	424	Govindarajulu, Z	
Gebregziabher, Mulugeta		Giordani, Paolo	452	Grabarnik, Genady	
Gedif, Kinfemichael		Girard, Claude	153	Grady, James	
Geerts, Tamara		Giunta, Anthony	532	Gramacy, Robert	
Gel, Yulia R 90,		Giurcanu, Mihal		Grant, Andriene	152
Gelfand, Alan E32, 97,	148, 238, 321,	Givens, Geof	502	Grant, David	208
	386, 476, 486	Glathar, Jill	208	Grant, Eric J	
Gelfond, Jonathan	59, 248	Glazko, Galina	143	Grant, Shannon	
Geller, Nancy L	39	Gleason, James	343	Grau, Eric	
Gelman, Andrew	86	Gleaton, James U		Graves, Spencer	
Geman, Stuart	534	Glickman, Mark E		Gray, Genetha A	
Gemayel, Nader	499	Glynn, Adam N		Gray, Gerry	
Geng, Zhi	384	Glynn, Robert		Gray, Henry L	
Gennings, Chris	154	Gneiting, Tilmann		Gray, J. Brian	
Genovese, Christopher	45	Goehlmann, Hinrich		Gray, Mary W	
Genschel, Ulrike		Goerg, Georg		Gray, Simone	
Gentle, James E	267, 340, 343	Goetghebeur, Els		Graybeal, John M	
Gentleman, Jane F	179	Goh, Chuan		Greco, William	

Green Cynthia L 329	Name	Session	Name	Session	Name	Session
Greene, Mark H. 503 Guo, Wansheng. 193, 524 Handcock, Mark S. 292, 390, 415, 492, 513 Green, Mark H. 503 Guo, Xiang. 198 Hanle, James A. 376 Greene, Form. 104, 533 Guo, Zine, Lander, 173, 357 Guo, Zhenchao. 331 Hanna, Steven E. 294 Hannig, Jam. 333 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Shilpa. 204, 487 Gregori, Dariot. 383 Gupta, Shuba. 249 Hansen, Ban B. 9. 9 Hansen, Mark. 522 Gupta, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Mark. 522 Gurla, Mark. 520, 176 Hansen, Mark. 520 Hansen, Mark. 520, 176 Hansen, Mark. 520 Hansen, Mark. 520, 176 Hansen, Mark. 520	Green, Cynthia L	329	Guo, Hua	59	Han, Lixin	25
Greene, Mark H. 503 Guo, Wansheng. 193, 524 Handcock, Mark S. 292, 390, 415, 492, 513 Green, Mark H. 503 Guo, Xiang. 198 Hanle, James A. 376 Greene, Form. 104, 533 Guo, Zine, Lander, 173, 357 Guo, Zhenchao. 331 Hanna, Steven E. 294 Hannig, Jam. 333 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Arjun K. 1973, 336 Greenshtein, Eitlan. 189 Gupta, Shilpa. 204, 487 Gregori, Dariot. 383 Gupta, Shuba. 249 Hansen, Ban B. 9. 9 Hansen, Mark. 522 Gupta, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 106, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Ben B. 9. 9 Hansen, Mark. 522 Gurla, Matthew. 108, 176 Hansen, Mark. 522 Gurla, Mark. 520, 176 Hansen, Mark. 520 Hansen, Mark. 520, 176 Hansen, Mark. 520 Hansen, Mark. 520, 176 Hansen, Mark. 520	•		Guo, Mengye	294	Han, Xu	45, 234
Greene, Mark H. 503 Guo, Xiang 198 Hanley, James A 376 Green, Tom. 104, 533 Guo, Ying 463 Hanna, Steven E 254 Greenstlein, Eitan 189 Gupta, Aspiun K 197, 336 Hannig, Jam 333 Greenwood, Mark 32 Gupta, Aspiun K 197, 336 Hansen, Ben B 9.9 Gregoire, Timothy 48 Gupta, Shilpa 204, 487 Hansen, Ben B 9.9 Grépin, Karen 92 Gurka, Matthew 106, 176 Hansen, Ben B 9.9 Griefin, Beth Ann 19, 243, 278 Gutha, Matthew 106, 176 Hansen, Mark 522 Griffin, Deborah H 131 Gutth, Alexander 470 Hardin, J. Michael 150, 39 Grigorian, Karen 12 Gutth, Alexander 470 Hardin, J. Michael 150, 49 Gross, Justin 131 Haaland, Peter 154 Hardin, J. Michael 150, 49 Griffin, Deborah H 131 Haland, Peter 185 Hardin, J. Michael 150, 44						
Green, Tom. 104, 533 Guo, Ying 400, 2 Denchao 331 Greenshtein, Ettan 189 Guo, 2 Denchao 331 Guo, 2 Denchao 333 Guo, 2 Denchao 340 Guo, 2 Denchao 3	_		l			
Greenland, Sander 173, 357 Greenshtein, Eitan 189 Greenwood, Mark 32 Greenwood, Mark 42 Hadawas, Paul 44 Hadawas, Paul 46 Gruber, Marvin, 29, 84 Hagan, Joseph 1 Haday Allah, Allabar 42 Haday, Alula, 341, 426 Greenwood, Mark 40 Haday, Alula, 341, 426 Harris, Johan 40 Harris, Kathy, 199 Harris, Mark 40 Harris, Mark			· · · · · · · · · · · · · · · · · · ·		· ·	
Greenshtein, Eitan 1.89 Gupta, Arjun K 1.97, 336 Hans, Christopher 1.47 Gregoire, Timothy 48 Gupta, Mayetri 5.99, 491 Hansen, Ben B .99 Gregoire, Timothy 48 Gupta, Shibpa 204, 487 Hansen, Mark 5.22 Greipin, Karen 92 Gurka, Matthew 106, 176 Hansen, Timothy E .97, 294, 486 Griffin, Beth Ann 19, 233, 278 Gustafson, Paul .173 Haran, Murali .476 Griffin, Beth Ann 19, 233, 278 Guttin, Alexander .470 Harding, R. Lee .428 Grigorian, Karen 12 Guttorp, Peter .185 Harding, R. Lee .428 Grobbe, Diedrick E .371 Haario, Heikkik .452 Harmon, Charles .154 Gross, Pobert M .405 Haas, Joseph .154 Harran, Glomon W .249, 346 Groves, Robert M .405 Hadeu, Alula .341, 26 Harrington, David P .15, 187 Gruber, Marvin .29, 98 Hagan, Joseph L .254 Harris, Loteta <td></td> <td></td> <td> ~</td> <td></td> <td></td> <td></td>			~			
Greenwood, Mark						
Gregoire, Timothy .48 Gupta, Shilpa .204, 487 Hansen, Mark .522 Gregoir, Dario .383 Gupta, Shuva .249 Hansen, Mark .97, 294, 486 Grépin, Karen .92 Gurka, Matthew .106, 176 Haque, Arifull .539 Griffin, Deborah H .131 Guthin, William .30, 204 Haran, Murali .476 Griffin, Richard .252 Grittorp, Peter .185 Hardnett, Felicia .322 Grigorian, Karen .12 Guttorp, Peter .185 Hardnett, Felicia .324 Grobbe, Diederick .371 Haas, Joseph .154 Hardnett, Felicia .324 Gross, Peter .309 Haberman, Shelby .452 Harper, Joel T .32 Gross, Peter .209 Haberman, Shelby .547 Harris, Ian .141, 154, 343 Groves, Robert M .405, 414 Hadey, Alula .341, 26 Harris, Kathy .199 Gu, Jiajun .421 Hadi, Jiakbar .423 Harris, Kathy .199			_ ′		-	
Gregori, Dario. 383 Gupta, Shuva. 249 Hanson, Timothy E. 97, 294, 486 Grépin, Karen. 92 Gurka, Matthew. 106, 176 Haque, Ariful. 539 Grieve, Andrew P. 445 Gustafson, Paul. 173 Haran, Murali. 476 Griffin, Beth Ann. 19, 243, 278 Gutthrie, William. 30, 204 Hardin, J. Michael. 150, 540 Griffiths, Richard. 252 Guttop, Peter. 188 Hardin, J. Michael. 150, 540 Grigorian, Karen. 12 Haaland, Perry. 154 Harding, R. Lee. 428 Grobee, Diederick E. 371 Haarlo, Fleikki. 452 Harding, R. Lee. 428 Gross, Justin. 13 Haber, Michael. 452 Harmon, Charles. 154 Gross, Sulamith. 103 Haber, Michael. 34 Harrar, Solomon W. 249, 336 Gross, Sulamith. 103 Haberman, Shelby. 547 Harrington, David P. 115, 187 Gross, Sulamith. 103 Haberman, Shelby. 547 Harrington, David P			l * '			
Grépin, Karen. 92 Gurka, Matthew. .106, 176 Haque, Ariful. .539 Grieve, Andrew P. .445 Siustafson, Paul. .173 Haran, Murali. .476 Griffin, Beth Ann. 19, 243, 278 Guthrie, William. 30, 204 Hardin, J. Michael. .150, 40 Griffin, Deborah H. .131 Guttop, Peter. .185 Harding, R. Lee. .428 Griffin, Sichard .252 Guttop, Peter. .185 Hardnett, Felicia. .324 Grobbee, Diederick E. .371 Haario, Heikki. .452 Harmon, Charles. .154 Grobs, Justin. .13 Haber, Michael. .44 Harpre, Joel T. .32 Gross, Justin. .13 Haberman, Shelby. .547 Harriar, Solomon W. .249, 336 Gross, Pobert M. .405, 414 Hadeyu, Alula. .341, 426 Harris, Ian. .114, 154, 343 Gru, Jiajun. .421 Haagan, Joseph L. .254 Harris, Kathy. .199 Gu, Jiajun. .421 Hagan, Joseph L. .254 Harris, Mitche	•		l			
Grieve, Andrew P. .445 Gustafson, Paul .173 Haran, Murali .476 Griffin, Beth Ann .19, 243, 278 Guttrie, William .30, 204 Hardin, J. Michael .150, 540 Griffin, Beth Ann .19, 243, 278 Guttorp, Peter .185 Hardin, J. Michael .150, 540 Griffiths, Richard .252 Guttorp, Peter .185 Hardin, J. Michael .324 Grobbee, Diederick E. .371 Haario, Heikki .452 Harrens, Challes .154 Grobbe, Diederick E. .371 Haar, Heikki .452 Harron, Challes .154 Gross, Justin .13 Haber, Michael .34 Harron, Challes .154 Gross, Shulamith .103 Haberman, Shelby .547 Harrington, David P. .15, 187 Groves, Robert M. .405, 414 Hadgu, Alula .341, 26 Harris, Loleta .59 Gu, Jiajun .421 Hagan, Joseph L. .254 Harris, Michell .31, 390 Gu, Jian .421 Haghighi, Aliakbar .423 Harris, Mi	•		l -		'	
Griffin, Beth Ann					_	
Griffin, Deborah H. 131 Gutin, Alexander			l			
Griffiths, Richard						
Grigorian, Karen 12 Haaland, Perry 154 Harkness, William 50, 303 Gröbbee, Diederick E 371 Haario, Heikki 452 Harmon, Charles 154 Gröns, Nyistin 13 Haber, Michael 34 Harper, Joel T 32 Gross, Peter 209 Haberman, Shelby 547 Harrington, David P 15, 187 Gross, Robert M 405, 414 Hadavas, Paul 465 Harrington, David P 115, 187 Gross, Robert M 405, 414 Hadaya, Alula 344, 246 Harris, Loleta 59 Gu, Jiajun 421 Hagan, Joseph L 254 Harris, Koleta 59 Hagan, Joseph L 254 Harris, Loleta 59 Gu, Wen 371 Haile, Sarah 423 Harris, Mitchell 31, 390 Gu, Wen 371 Haile, Sarah 49 Harrison, Ferrin D 369 Guadagno, Mary Ann 207 Haines, Davn E 71 Hartension, Matthew 534 Guan, Yongtao 18, 174 Hall, David					•	
Grobbee, Diederick E			1 *			
Gröhn, Yrjö T 387 Haas, Joseph 154 Harper, Joel T 32 Gröss, Justin 13 Haber, Michael 34 Harrar, Solomon W 249, 336 Gross, Peter 209 Haberman, Shelby 547 Harris, Ian 114, 154, 343 Gross, Shulamith 103 Hadavas, Paul 465 Harris, Ian 114, 154, 343 Groves, Robert M 405, 414 Hadgu, Alula 341, 426 Harris, Ian 114, 154, 343 Groves, Robert M 405, 414 Hadgu, Alula 341, 426 Harris, Kathy 199 Gruber, Marvin 29, 98 Hadjiliadis, Olympia 508 Harris, Kathy 199 Gu, Jiajun 421 Hagan, Joseph L 225 Harris, Mitchel 31, 390 Gu, Jiajun 421 Hann, Friedrich 1154 Harris-Kojetin, Brian 41, 41, 390 Gu, Jun 421 Hahn, Friedrich 154 Harrison, Matthew 534 Gu, Xun 416 Haines, Yacov Y 424 Hart Jeffrey 110, 257, 267 G	•		l '			
Gross, Justin. .13 Haber, Michael. .34 Harriar, Solomon W. .249, 336 Gross, Peter. .209 Haberman, Shelby .547 Harrington, David P. .15, 187 Gross, Shulamith .103 Hadayas, Paul .465 Harris, Ian. .114, 154, 343 Groves, Robert M. .405, 414 Hadgu, Alula. .341, 426 Harris, Kathy .199 Gu, Jiajun. .29, 98 Hadjiliadis, Olympia .508 Harris, Kathy .199 Gu, Jiajun. .421 Hadjiliadis, Olympia .508 Harris, Koletla. .59 Gu, Jiajun. .421 Hadjiliadis, Olympia .508 Harris, Kolthu .199 Gu, Jiajun. .421 Hadjiliadis, Olympia .423 Harris, Kolthu .199 Gu, Jiajun. .421 Hadjiliadis, Olympia .423 Harris, Kolthu .199 Gu, Wen. .371 Hall, Alastain .423 Harris, Kojetin, Brian .41, 405 Gu, Wen. .371 Haile, Sarah .49 Harrison, Mathew .534 </td <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>					•	
Gross, Peter. 209 Haberman, Shelby .547 Harrington, David P. .15, 187 Gross, Shulamith 103 Hadavas, Paul .465 Harris, Ian. .114, 154, 343 Groves, Robert M. .405, 414 Hadgu, Alula. .341, 426 Harris, Kathy. .199 Gruber, Marvin. .29, 98 Hadjiliadis, Olympia .508 Harris, Loleta. .59 Gu, Jianu. .421 Hagan, Joseph L. .254 Harris, Loleta. .59 Gu, Jiezhun. .338 Haghighi, Aliakbar .423 Harris-Kojetin, Brian. .41, 405 Gu, Jun. .421 Hale, Sarah .49 Harrison, Matthew .534 Gu, Xun. .416 Haines, Yacov Y. .424 Hart, Jeffrey. .110, 257, 267 Guadagno, Mary Ann .207 Haines, Dawn E. .71 Hartemink, Alexander .313 Guan, Yongtao .18, 174 Hall, David. .253 Hartleub, Brad. .406 Guan, Zhong .110 Hall, David. .253 Harvey, Peter E. .425	,				* '	
Gross, Shulamith 103 Hadavas, Paul 465 Harris, Ian 114, 154, 343 Groves, Robert M. 405, 414 Hadgu, Alula 341, 426 Harris, Kathy. 199 Gruber, Marvin. 29, 98 Hadjiliadis, Olympia 508 Harris, Loleta. 59 Hagn, Joseph L. 254 Harris, Kitchell 31, 390 Gu, Jiezhun. 338 Haghighi, Aliakbar 423 Harris-Kojetin, Brian 41, 405 Gu, Jun. 421 Hahn, Friedrich 154 Harrison, Ferrin D 369 Harrison, Matthew 534 Harrison,						
Groves, Robert M. 405, 414 Hadgu, Alula. 341, 426 Harris, Kathy. 199 Gruber, Marvin. 29, 98 Hadjiliadis, Olympia 508 Harris, Loleta. 59 Gu, Jiajun. 421 Hagan, Joseph L. 254 Harris, Mitchell 31, 390 Gu, Jiezhun. 338 Haghighi, Aliakbar 423 Harris-Kojetin, Brian 41, 405 Gu, Wen. 371 Haile, Sarah 49 Harrison, Ferrin D. 369 Gu, Xun. 416 Haines, Yacov Y. 424 Hart, Jeffrey. 110, 257, 267 Guadagno, Mary Ann. 207 Haines, Dawn E. 71 Hartemink, Alexander 313 Guan, Xuesong. 198 Hall, Daniel 67 Hartley, Tara A. 206 Guardiola, Jose H. 511 Hall, David. 253 Harvey, Peter E. 425 Gui, Jiang. 144 Hall, Peter. 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang. 144 Hall, W. Jackson. 194 Hather, Gregory. 154 <t< td=""><td></td><td></td><td>l '</td><td></td><td>_</td><td></td></t<>			l '		_	
Gruber, Marvin. 29, 98 Hadjiliadis, Olympia 508 Harris, Loleta. 59 Gu, Jiajun 421 Hagan, Joseph L. 254 Harris, Mitchell. 31, 390 Gu, Jun. 381 Haghighi, Aliakbar 423 Harris-Kojetin, Brian 41, 405 Gu, Jun. 421 Hahn, Friedrich 154 Harrison, Ferrin D. 369 Gu, Wen. 371 Haile, Sarah. 49 Harrison, Matthew. 534 Gu, Xun. 416 Haimes, Yacov Y. 424 Hart, Jeffrey. 110, 257, 267 Guadagno, Mary Ann. 207 Haines, Dawn E. 71 Hartemink, Alexander 313 Guan, Xuesong. 198 Hall, Alastair R. 146, 360 Hartlaub, Brad. 406 Guan, Yongtao. 18, 174 Hall, Daniel. 67 Hartley, Tara A. 209 Guardiola, Jose H. 511 Hall, David. 253 Harvey, Peter E. 425 Gui, Jiang. 144 Hall, Devon. 343 Harvill, Jane. 412, 511 Guenther-Gr						
Gu, Jiajun 421 Hagan, Joseph L 254 Harris, Mitchell 31, 390 Gu, Jiezhun 338 Haghighi, Aliakbar 423 Harris-Kojetin, Brian 41, 405 Gu, Jun 421 Hahn, Friedrich 154 Harrison, Ferrin D 369 Gu, Wen 371 Haile, Sarah 49 Harrison, Matthew 534 Gu, Xun 416 Haines, Yacov Y 424 Hart, Jeffrey 110, 257, 267 Guadagno, Mary Ann 207 Haines, Dawn E 71 Hartemink, Alexander 313 Guan, Yongtao 188 Hall, Alastair R 146, 360 Hartlaub, Brad 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guardiola, Jose H 511 Hall, Devon 343 Harvey, Peter E 425 Gui, Jiang 144 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 144 Hauck, Walter W 145 Guillas, Serge 2			_ ~		· ·	
Gu, Jiezhun 338 Haghighi, Aliakbar 423 Harris-Kojetin, Brian 41, 405 Gu, Jun 421 Hahn, Friedrich 154 Harrison, Ferrin D 369 Gu, Wen 371 Haile, Sarah 49 Harrison, Matthew 534 Gu, Xun 416 Haines, Yacov Y 424 Harrison, Matthew 534 Guadagno, Mary Ann 207 Haines, Dawn E 71 Hartemink, Alexander 313 Guan, Xuesong 198 Hall, Alastair R 146, 360 Hartleub, Brad 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guar Giola, Jose H 511 Hall, David 253 Harvey, Peter E 425 Guirloia, Jose H 511 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guimaraes, Paulo 292 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guilans, Carl <			· -			
Gu, Jun 421 Hahn, Friedrich 154 Harrison, Ferrin D 369 Gu, Wen 371 Haile, Sarah 49 Harrison, Matthew 534 Gu, Xun 416 Haines, Yacov Y 424 Hart, Jeffrey 110, 257, 267 Guadagno, Mary Ann 207 Haines, Dawn E 71 Hartemink, Alexander 313 Guan, Xuesong 198 Hall, Alastair R 146, 360 Hartlaub, Brad 406 Guan, Yongtao 18, 174 Hall, David 253 Harvey, Peter E 425 Guardiola, Jose H 511 Hall, Devon 343 Harvill, Jane 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guilans, Carl	. ,		_			
Gu, Wen 371 Haile, Sarah 49 Harrison, Matthew 534 Gu, Xun 416 Haimes, Yacov Y. 424 Hart, Jeffrey 110, 257, 267 Guadagno, Mary Ann 207 Haines, Dawn E. 71 Hartemink, Alexander 313 Guan, Xuesong 198 Hall, Alastair R. 146, 360 Hartlaub, Brad 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guan, Zhong 110 Hall, David 253 Harvey, Peter E 425 Guardiola, Jose H. 511 Hall, Devon 343 Harvill, Jane 412, 511 Guinther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guindani, Michele 496 Hamadeh, Hisham 223 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 </td <td></td> <td></td> <td>l</td> <td></td> <td>,</td> <td></td>			l		,	
Guadagno, Mary Ann 207 Haines, Dawn E. 71 Hartemink, Alexander 313 Guan, Xuesong 198 Hall, Alastair R 146, 360 Hartlaub, Brad. 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guan, Zhong 110 Hall, David. 253 Harvey, Peter E 425 Guardiola, Jose H. 511 Hall, Devon 343 Harvill, Jane. 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson. 194 Hather, Gregory. 154 Guillas, Serge 271 Hallum, Cecil. 294, 343 Hauck, Walter W. 145 Guindani, Michele. 496 Hamodeh, Hisham 223 Hawiland, Amelia 397 Gullans, Carl. 343 Hamer, Josephine 385 Hawkins, Douglas M. 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471						
Guadagno, Mary Ann 207 Haines, Dawn E. 71 Hartemink, Alexander 313 Guan, Xuesong 198 Hall, Alastair R. 146, 360 Hartlaub, Brad. 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guan, Zhong 110 Hall, David. 253 Harvey, Peter E. 425 Guardiola, Jose H. 511 Hall, Devon. 343 Harvill, Jane. 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter. 121, 224, 395 Hastie, Trevor. 98, 528 Gui, Jiang 144 Hall, W. Jackson. 194 Hather, Gregory. 154 Guillas, Serge 271 Hallum, Cecil. 294, 343 Hauck, Walter W. 145 Guindani, Michele. 496 Hamadeh, Hisham. 223 Hawiland, Amelia. 397 Gullans, Carl. 343 Hamer, Josephine. 385 Hawkins, Douglas M. 356, 403, 464 Gulyas, Stephen. 539 Hamidieh, Kam. 339 Hayet, Matthew. 471	Gu, Xun	416	Haimes, Yacov Y	424	Hart, Jeffrey	110, 257, 267
Guan, Xuesong 198 Hall, Alastair R 146, 360 Hartlaub, Brad 406 Guan, Yongtao 18, 174 Hall, Daniel 67 Hartley, Tara A 209 Guan, Zhong 110 Hall, David 253 Harvey, Peter E 425 Guardiola, Jose H 511 Hall, Devon 343 Harvill, Jane 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayet, Matthew 471 Gumpertz, Marcia 47, 175 Hammer, Mark 294 Hayes, Richard <	Guadagno, Mary Ann	207	Haines, Dawn E	71	•	
Guan, Zhong 110 Hall, David 253 Harvey, Peter E. 425 Guardiola, Jose H 511 Hall, Devon 343 Harvill, Jane 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gumpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunrels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gun	Guan, Xuesong	198	Hall, Alastair R	146, 360	Hartlaub, Brad	406
Guan, Zhong 110 Hall, David 253 Harvey, Peter E. 425 Guardiola, Jose H 511 Hall, Devon 343 Harvill, Jane 412, 511 Guenther-Grey, Carolyn 324 Hall, Peter 121, 224, 395 Hastie, Trevor 98, 528 Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gumpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunrels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gun	Guan, Yongtao	18, 174	Hall, Daniel	67	Hartley, Tara A	209
Guardiola, Jose H. 511 Hall, Devon. 343 Harvill, Jane. 412, 511 Guenther-Grey, Carolyn. 324 Hall, Peter. 121, 224, 395 Hastie, Trevor. 98, 528 Gui, Jiang. 144 Hall, W. Jackson. 194 Hather, Gregory. 154 Guillas, Serge. 271 Hallum, Cecil. 294, 343 Hauck, Walter W. 145 Guimaraes, Paulo. 292 Halvorsen, Katherine. 268 Haviland, Amelia. 397 Guindani, Michele. 496 Hamadeh, Hisham. 223 Hawala, Sam. 191, 365 Gullans, Carl. 343 Hamer, Josephine. 385 Hawkins, Douglas M. 356, 403, 464 Gulyas, Stephen. 539 Hamidieh, Kam. 339 Hayet, Matthew. 471 Gumpertz, Marcia. 47, 175 Hamm, Adam. 198 Hayes, Richard. 353 Gunaratna, Nilupa S. 230 Hamner, Mark. 294 Hayes, Ron D. 489 Gunst, Richard. 463 Han, Chien-Pai. 251 Haziza, David. 252 Gunter, Lacey. 144 Han, Gang. 115, 125 <					-	
Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gunpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunaratna, Nilupa S 230 Hamner, Mark 294 Hayes, Ron D 489 Gunnels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Gang 250 He, Qimei 209	•		Hall, Devon	343	· ·	
Gui, Jiang 144 Hall, W. Jackson 194 Hather, Gregory 154 Guillas, Serge 271 Hallum, Cecil 294, 343 Hauck, Walter W 145 Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gunpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunaratna, Nilupa S 230 Hamner, Mark 294 Hayes, Ron D 489 Gunnels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Gang 250 He, Qimei 209	Guenther-Grey, Carolyn	324	Hall, Peter	121, 224, 395	Hastie, Trevor	98, 528
Guillas, Serge			Hall, W. Jackson	194	Hather, Gregory	154
Guimaraes, Paulo 292 Halvorsen, Katherine 268 Haviland, Amelia 397 Guindani, Michele 496 Hamadeh, Hisham 223 Hawala, Sam 191, 365 Gullans, Carl 343 Hamer, Josephine 385 Hawkins, Douglas M 356, 403, 464 Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gumpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunaratna, Nilupa S 230 Hamner, Mark 294 Hayes, Ron D 489 Gunnels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	_		Hallum, Cecil	294, 343		
Gullans, Carl	_		Halvorsen, Katherine	268	Haviland, Amelia	397
Gulyas, Stephen 539 Hamidieh, Kam 339 Hayat, Matthew 471 Gumpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunaratna, Nilupa S 230 Hamner, Mark 294 Hayes, Ron D 489 Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	Guindani, Michele	496	Hamadeh, Hisham	223	Hawala, Sam	191, 365
Gumpertz, Marcia 47, 175 Hamm, Adam 198 Hayes, Richard 353 Gunaratna, Nilupa S 230 Hamner, Mark 294 Hayes, Ron D 489 Gunnels, Betsy C 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	Gullans, Carl	343	Hamer, Josephine	385	Hawkins, Douglas M	356, 403, 464
Gunaratna, Nilupa S. 230 Hamner, Mark. 294 Hayes, Ron D. 489 Gunnels, Betsy C. 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard. 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey. 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	Gulyas, Stephen	539	Hamidieh, Kam	339	Hayat, Matthew	471
Gunaratna, Nilupa S. 230 Hamner, Mark. 294 Hayes, Ron D. 489 Gunnels, Betsy C. 148 Hamrick, Florence 72 Hayhoe, Katharine 55 Gunst, Richard. 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey. 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	-		Hamm, Adam	198	•	
Gunnels, Betsy C. 148 Hamrick, Florence. 72 Hayhoe, Katharine. 55 Gunst, Richard. 463 Han, Chien-Pai. 251 Haziza, David. 252 Gunter, Lacey. 144 Han, Daifeng. 115, 125 He, Huixing. 343 Gunti, Sandhya. 343 Han, Gang. 250 He, Qimei. 209	-				•	
Gunst, Richard 463 Han, Chien-Pai 251 Haziza, David 252 Gunter, Lacey 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	•				•	
Gunter, Lacey 144 Han, Daifeng 115, 125 He, Huixing 343 Gunti, Sandhya 343 Han, Gang 250 He, Qimei 209	•				•	
Gunti, Sandhya						
· · · · · · · · · · · · · · · · · · ·	· ·				•	
Guo, reng	Guo, Feng		Han, John (Joong Hee)		He, Weili	

Name	Session	Name	Session	Name	Session
He, Wenqing	182	Hirose, Naoki	512	Horwitz, Barry	241
He, Xin	65, 426	Hirsh, Neale	294	Hosking, Jonathan	474, 508
He, Xuming	128, 358, 398	Hirshorn, Seth	436	Hosler, Susan	511
He, Yi	476	Hitchcock, David	340	Hosmer, David	110, 545
He, Yulei	227, 264, 535	Ho, Chih-Hsiang	343	Hothorn, Torsten	354
He, Zhuoqiong (Chong)	109, 137, 266	Ho, Hsiu-J	251	Hougaard, Philip	517
Heagerty, Patrick J	92	Hoaglin, David C	123	Hough, George C	131
Heaton, Matthew	512	Hobbs, Frank	255	House, Carol C	364
Heavlin, William D	203	Hodges, James S	476, 509	Houtenville, Andrew J	221
Hecq, Alain	88	Hoefer, Michael D	116	Hoverman, Verna	254
Hedayat, Samad	369	Hoes, Arno W	371	Hoversten, Michael	294
Hedges, Dawson	281, 549	Hofer, Marian	413	Hovey, Peter	282
Heeringa, Steven	13, 209, 342, 513	Hoff, Peter D	190, 337, 390	Howlader, Tamanna	548
Heiberger, Richard M	456	Hoffer, Thomas B	12	Hshieh, Paul	154
Heilmann, Cory	538	Hoffman, David	90	Hsia, Jason	284
Heiny, Erik	428	Hoffman, David M	134	Hsiao, Chin-Fu	51
Heisey, Dennis		Hoffman, Lorrie	465	Hsing, Tailen	18, 57, 523
Heitjan, Daniel F		Hoffman, Matthew	209	Hsu, Henry	
Helenius, Reija		Hoffmann, Raymond		Hsu, Jason C26, 1	
Helenowski, Irene		Hoffmann, Thomas		Hsu, Margaretha	
Heller, Andrew		Hofmann, Heike		Hsu, Valerie	
Heller, Glenn		Hogan, Joseph W		Hsu, Yu-Yi	
Heltshe, Sonya		Hogan, William		Hsueh, Huey-Miin	
Hemasinha, Rohan		Hoh, Josephine		Hu, Bo	
Hendarwan, Erlina		Højsgaard, Søren		Hu, Feifang	
Henderson, Robin		Holan, Scott		Hu, Jiang	
Hendrix, Suzanne		Holcomb, John P		Hu, Jianhua	
Henly, Megan		Holdrege, Mark		Hu, Jiaqiao	
Henry, Kimberly A		Holland, Paul		Hu, Mingxiu	
Herberich, Jennifer		Holsinger, Kent		Hu, Wenhua	
Herbst, Roy		Holt, Jeff		Hu, X. Joan	
Hering, Amanda S		Holt, Melinda M		Hu, Zonghui	
Hernan, Miguel A		Hong, Feng		Hua, Lanqing	
Herring, Amy H		Hong, Han		Hua, Tsushung	
Herron, Amy B		Hong, Mee Young		Huang, Bin	
Hess, Ann		Hong, Shengyan		Huang, Chiang-Ching	
Hesterberg, Tim		Hooker, Giles		Huang, Chiung-Yu	
Heyse, Joseph		Hooker, Rachael		Huang, Chunfeng	
Hicks, Wendy		Hooten, Mevin		Huang, Gary	
Hidiroglou, Mike A		Horgan, Graham		Huang, Jian	
Higgins, James		Horie, Yoshiharu		Huang, Jianhua Z	
Highland, Fred		Horn, Wendy S		Huang, Jie	
Higuchi, Tomoyuki		Horner, Jeff		Huang, Liping	
Hill, Jennifer		Horsky, Dan		Huang, Saling	
Hill, Shawndra		Horton, Nicholas		Huang, Wei-Min	
Himelein Jr., James A		Horton, Scott		Huang, Wenmei	
Hinkins, Susan		Horvath, Steve		Huang, Xiaobi	

Name	Session	Name	Session	Name	Session
Huang, Xiaohong	94	Ibrahim, Joseph G	59, 322, 461, 491	Jank, Wolfgang	205
Huang, Xin		Iglehart, James D	416	Jannasch-Pennell, Angel	
Huang, Xin		Iglewicz, Boris		Janos, Nathan	
Huang, Xuelin	95, 400	Ii, Yoichi		Jans, Matt	209
Huang, Yangxin		Imai, Kosuke	234	Janssen, Kristel J.M	371
Huang, Yao	408	Imai, Yukiko	530	Jaros, Mark	49
Huang, Yifan	126	Imm, So Jung	495	Jauregui, Maritza	294
Huang, Ying	92, 371	Imrey, Peter B	366	Javaras, Kristin	292
Huang, Zhuying	343	Ing, Ching-Kang	251	Javier, Walfredo	197
Hubbard, Alan		Ingram, Debra		Jayawardhana, Ananda	511
Hubbard, Susan	294	Inoue, Atsushi	360	Jeffery, Chris	320
Hubert, Philippe	134	Inoue, Lurdes	328, 467	Jefferys, Kelly	116
Huckett, Jennifer	191	Ionita-Laza, Iuliana	245	Jemiai, Yannis	
Hudson, James I	292	Ireland, Jack	411	Jenkins, Frank	114
Huertas-Vazquez, Adriana	502	Iriondo-Perez, Jeniffer	115	Jenney, Brenda	343
Hughes, Elizabeth	341	Irish, William	154, 540	Jennings, Kristofer	29
Hughes, Jeffrey	35	Irizarry, Rafael	396	Jensen, Shane T	20, 122, 391
Hughes, Sara H	521	Irony, Telba	373	Jensen, Willis	487
Hughes-Oliver, Jacqueline M.	172, 300,	Ismaila, Afisi S	66, 296, 471	Jeon, Sangchoon	289
	356, 464	Israel, Glenn	61	Jeong, Jaesik	417
Huitema, Bradley E	135	Iversen, Edwin	1, 313, 357	Jewell, Nicholas P	480
Hult, Henrik	136	Iversen, Philip	154	Ji, Chen	241
Humphrey, Patricia	206	Iyer, Hariharan	276, 333	Ji, Chuanshu	247
Hung, H.M. James	521	Iyer, Madhu	53	Jia, Juan	58
Hung, James	270	Iyer, Vishwanath	65	Jia, Yue	343
Hung, Man	209	Izenman, Alan J	90, 413	Jiang, Aixiang	201
Hung, Ming-Chin		Jackson, Dan	537	Jiang, Guoyong	471
Hung, Ying	250, 376	Jackson, Lisa	151, 209	Jiang, Honghua	333, 469
Hunsaker, Naomi		Jackson, Michael	151, 209	Jiang, Hongmei	334
Hunt, Jr., William F		Jacobi, Liana	361	Jiang, Huiping	54, 494
Hunter, David166, 215,		Jacobs, Jan	320	Jiang, Jiming	70, 187, 423
Huo, Xiaoming		Jacobs, Tom	25	Jiang, Qi	419
Huque, Mohammad		Jacod, Jean	485	Jiang, Thomas J	509, 541
Hurvich, Clifford M		Jacqmin-Gadda, Helene.	104	Jiang, Wei	487
Hurwitz, Shelley		Jahan, Nusrat	382	Jiang, Xiaoyu	144
Huson, Les		Jain, Anil K	516	Jiles, Ruth	341
Hussein, Abdulkadir		Jain, Arvind	28	Jin, Jiashun	396, 449
Huzurbazar, Aparna V		Jakulin, Aleks	86, 171	Jin, Jionghua	190
Huzurbazar, Snehalata		James, David A		Jin, Lei	475
Hwang, Gene J.T		James, Gareth	307	Jin, Man	23, 548
Hwang, John Dar Shong		James, Hodges S	476	Jin, Xiaoping	34, 504
Hydorn, Debra		Jana, Kalidas		Jin, Yuying	
Hynan, Linda S		Janes, Darryl	288	Jin, Zhezhen	83
Hyslop, Terry		Janes, Holly		Jin, Zi	423
Iachan, Ronaldo		Jang, Donsig	72, 293, 342	Jirsak, Jan	515
Iams, Howard		Jang, Junghoon		Joachims, Thorsten	177
Iannacchione, Vincent G	36, 125	Jang, Woncheol	57, 461	Joffe, Marshall	335, 531

Name	Session	Name	Session	Name	Session
Johanis, Paul	368	Jung, Yoon-Sung	540	Katki, Hormuzd	287
Johanson, Carrie L	368	Jurkovitz, Claudine	209	Katsaounis, Tena	250, 363, 422
John, Wilson	424	Kacirorti, Niko	202	Katul, Gabriel	321
Johnson, Alicia	475	Kadane, Joseph B	287	Katzoff, Myron	178
Johnson, Brian P	495	Kader, Gary	91	Kaufman, Cari	321
Johnson, Bryce	36	Kafadar, Karen	548	Kaufman, James	248
Johnson, Christopher	253, 515	Kagan, Abram	107	Kaur, Amarjot	199, 539
Johnson, Dallas	343, 540	Kahan, Joseph	339	Ke, Chunlei	418, 419
Johnson, David	184	Kahn, Joseph	467	Kearney, Thomas	335
Johnson, Devin	326	Kairalla, John	335	Kedem, Benjamin	113, 417
Johnson, Jacqueline	335	Kalambouka, Afroditi	72	Keer, David W	221
Johnson, John	145	Kalbfleisch, John D 95,	103, 106, 128	Keeton, Stephine	510
Johnson, Kenneth L	380	Kalsbeek, William D	36	Keiding, Niels	366
Johnson, Laura	67	Kalton, Graham	70	Keighley, John	209
Johnson, Richard A	63	Kaluzny, Stephen	294	Keil, Eric	35
Johnson, Robyn	72	Kalyanam, Kirthi	314	Keim, Samuel M	515
Johnson, Terri K	33	Kambara, Ayako	343	Keith, Scott W	286
Johnson, Timothy D	201	Kamer, Gary	156	Keles, Sunduz	102, 126
Johnson, Valen	232, 497	Kane, David	116	Kelleher, Thomas	105
Johnson, Wesley	258	Kang, Chang W	403	Keller-McNulty, Sallie	129, 346
Johnson, William H	36	Kang, Changku	149	Kelly, Logan	547
Johnston, Monica	482	Kang, Huining	283	Kempthorne, Peter J	
Johnston, Patrick	31	Kang, Lei		Kendziorski, Christina	
Johnstone, Iain		Kang, Moonsu		Kennedy, Courtney	
Jokiel-Rokita, Alicja		Kang, Qing	52	Kennedy, Jallah M	
Joly, Damien		Kang, Shin-Soo		Kennickell, Arthur B	
Jones, Bradley		Kannan, Nandini		Kenward, Mike	85
Jones, Bruce		Kantarcioglu, Murat		Kerber, Richard A	209
Jones, Byron		Kao, Chiun-How		Kern, John	290
Jones, Michael E		Kapenga, John	150	Kerr, Joshua	
Jones, Michael P	387	Kapetanios, George		Ketcham, Bruce	53
Jones, Michael P	503	Kaplan, Daniel		Kevin, Anderson	424
Jones, Shelton		Kapp, Amy		Khalili, Nasrin	
Jones-Farmer, Allison		Kapteyn, Arie		Khan, Shakeeb	
Joo, Jungnam	39, 327	Karcher, Michael		Khanna, Dinesh	62
Joost Bottenblehy, Joost	28	Karlson, Elizabeth W	209	Khanna, Rozina	470
Jorda, Oscar	360	Karr, Alan	129, 269	Khare, Meena	35, 153
Jordan, David	198	Karrison, Theodore G	468	Khuri, Andre I	67
Jordan, Victoria	30, 209	Karunanayake, Chandima	477, 514	Kianifard, Farid	105
Jornsten, Rebecka		Kasagi, Fumiyoshi	233	Kiesl, Hans	35
Joseph, Roshan		Kasala, Subramanyam		Kiffe, Thomas	
Ju, Hyunsu		Kashyap, Vinay L		Kilian, Lutz	
Juarez, Miguel		Kasif, Simon		Kim, Chansoo	
Judkins, David R		Kasprzyk, Daniel		Kim, Daeyoung	
Jun, Mikyoung		Kass, Robert E		Kim, Dohyeong	
Jung, Jeesun		Kasturi, Jyotsna		Kim, Edward S	
Jung, Sin-Ho		Kathman, Steven		Kim, Hye-Kyoung	

Name	Session	Name	Session	Name	Session
Kim, Hyun	534	Kohnen, Christine	21	Kromrey, Jeffrey	343
Kim, Inyoung	85	Kokoszka, Piort	294	Krotki, Karol7	8, 152, 428, 455
Kim, Jae-kwang		Kolaczyk, Eric D	144, 401, 449	Kryscio, Richard J	154
Kim, Jay H		Kolassa, John E		Kubiak, Rene	
Kim, Jay J		Kolenikov, Stanislav		Kuiper, Shonda	
Kim, Jeongsook		Kolm, Paul	209	Kulkarni, Pandurang M	
Kim, Jieun		Koltchinskii, Vladimir		Kumiega, Andrew	
Kim, Ji-In	127	Komaroff, Eugene		Kunapuli, Gautam	
Kim, Jong	291, 546	Komiyama, Osamu		Kunselman, Allen	
Kim, Joungyoun		Konda, Sreenivas	507	Kuo, Kun-Lin	
Kim, Juwon	88	Kondratovich, Marina	329	Kuo, Lynn	497
Kim, Lee-Lian	379	Kong, Augustine	536	Kuo, Way	317
Kim, Mi-Ok	338	Kong, Lan		Kuo, Yong-Fang	
Kim, Nak-Kyeong	325	Kong, Maiying	370	Kurali, Edit	464
Kim, Sung Duk	202, 461	Kong, Megan	154	Kuribayashi, Kazuhiko	16
Kim, SunWoong		Kong, Nan	382	Kurland, Brenda F	46, 503
Kim, Wonkuk		Kong, Xiangrong	196	Kurtz, Thomas	211
Kimball, Sytske	343	Konty, Kevin		Kuznetsov, Dmitri	425
Kimmel, Marek	333	Kopecky, Kenneth	233	Kwanisai, Mike	36
Kinard, Karen	21	Kosinski, Andrzej S	419	Kwon, Jaimyoung	250
King, Dennis	408, 458	Koslov, Judith	203	Kyj, Lada	
Kinnersley, Nelson	66	Koslowsky, Samuel	314, 425	Kyle, Tonja M	36
Kinney, Satkartar	82	Kosorok, Michael6,	63, 196, 400	Kyung, Minjung	
Kishor, N. Kundan		Koti, Kallappa	145	Labbi, Aberrahim	
Kitchen, Christina Ramirez	142, 415	Kott, Phillip S	330, 427	Labhard, Vincent	320
Klap, Ruth	209	Kottas, Athanasios	258, 398	LaBranche, Kathleen	549
Kleerup, Eric C	538	Koulis, Theodoro	372	Lacey, Michelle	245
Kleim, Gildas	389	Kovtun, Vladimir	172	Lafaye de Micheaux, Pierre	2343
Klein, John	400	Kowalski, Donna	15	Lafferty, John	57
Klemm, Rebecca	33	Koyama, Tatsuki	69	Laflamme, Francois	291, 293
Kliemann, Wolfgang	146	Kozlitina, Julia	154	Lagakos, Stephen	243, 517
Kloke, John	149	Kraber, Shari	301	Lahiri, Partha70, 7	1, 224, 427, 520
Knaub, James	70, 209	Krackhardt, David	13	Lahiri, Soumendra N	8, 174, 382
Kneib, Thomas	359	Krafty, Robert	193	Lahiri, Soumi	336
Knofczynski, Greg	465	Kraker, Jessica	464	Lai, Tze Leung	43, 220, 457
Knudsen, Laura	185	Kramer, Joan L	503	Laird, Nan	292, 380
Knudsen, Sven	132	Krams, Michael	130	Lakner, Peter	472
Ko, Younhee	63	Krasnicka, Barbara	420	Lakshminarayanan, Mani Y	<i>Z</i> 37
Koch, Gary	65, 521	Krenzke, Thomas	70, 264	Lalonde, Trent	106
Kocherginsky, Maria	468	Kreuter, Frauke	414	Lam, Clifford	276
Kodell, Ralph L	537	Krieg, Sabine	207, 514	Lam, Peter	408, 458
Koehler, Andrew	483	Kringle, Robert	134, 379	Lam, Raymond L.H	300
Koehler, Kenneth	198, 246	Krishna, Arun	96	Lambert, Diane	309
Koenig, Evan	320	Krishnamoorthy, Kalimuthu	111, 510	Lamoureux, Christopher	473
Kogut, Sarah J.H	495	Kriska, S. David	294	Lan, Kuang-Kuo	270
Kohlschmidt, Jessica	52	Krivitsky, Pavel	390	Lan, Ling	469
Kohn, Robert	22, 452	Krnjajic, Milovan	398	Lan, Yan	29

Name	Session	Name	Session	Name	Session
Lancaster, Carol J	101	Lee, Chun-Yi	343	Leshchenko, Elena	203
Land, Kenneth	278	Lee, EunJoo	203	Leslie, William D	477
Land, Stephanie R	49	Lee, Herbert	97, 486, 532	Lesser, Virginia	61, 115
Landes, Reid	209, 294	Lee, Hyunshik	114	Lessner, Lawrence	34
Landman, Cheryl R	12	Lee, Hyunsook	367	Letourneau, Elizabeth	332
Landreman, Urban		Lee, J. Jack		Levin, Linda	
Landrum, Mary Beth		Lee, James		Levine, Michael	18, 107, 146, 275
Lane, Julia		Lee, Jevons		Levy, Martin	
Lange, Christoph		Lee, Joo Yeon		Levy, Paul S	
Lange, Kenneth		Lee, Jordan		Lewin, David	
Langfelder, Peter		Lee, Juyoun		Lewinger, Juan P	
Langholz, Bryan		Lee, Kerry		Lewis, Jeffrey	
Laniel, Normand		Lee, Kwan		Lewis, Richard	
Lansky, David		Lee, Lawrence		Li, Ai	
Lao, Chang S.		Lee, Luen		Li, Bin	
Lapidus, Jodi		Lee, Man S.		Li, Bo	
Lara, Claudia		Lee, Martha		Li, Bogong T	
Larget, Bret		Lee, Mei-Ling Ting		Li, Caixia	
Larocque, Denis		Lee, Patrick		Li, Chin-Shang	
Larsen, Michael D		Lee, Sandra		Li, Chunming	
Larsen, Whenaer D	198, 264, 468	Lee, Seokho		Li, Dan	
Larson, Janice		Lee, Shin-Je		Li, Dangfeng	
Larson, Kristin A		Lee, Stephanie J		Li, Dongmei	
Larson, William E		Lee, Stephanie J		Li, Erning	
Lau, Edmund		Lee, Sunghee		Li, Fan	
Lau, Kit Fun		Lee, SungIm		Li, Fang	
Laughlin, Mark		Lee, Thomas C.M		Li, Fang	
Laurence, John A		Lee, Yoonkyung		1 ~	
Lauritzen, Michael K		Leeb, Hannes		Li, Gang	
LaVange, Lisa		Lefante, John		Li, George	
Lavelle, Bridget				Li, Heng	
Lavin, Philip		Lefebvre, Genevieve		Li, Hongfei	
Lavine, Michael		Lefohn, Allen S Lefton, Lew		Li, Huajiang	
Lavori, Philip				Li, Huilin	
Law, Michael		Legg, Jason		Li, Jia	
Lawley, Ernest		Legler, Julie		Li, Jialiang	
Lawrence, Earl		Lei, Lei		Li, Jianjun	
Lawson, Andrew B 18		Leiby, Benjamin E		Li, Jianzhu	
Lawson, John		Leith, Wendy		Li, Jing	
Lazar, Nicole		Leiva, Ricardo		Li, Jinhui	
·		Leman, Scotland		Li, Ker-Chau	
le Cessie, Saskia		LeMasters, Grace		Li, Lang	
Lea, Mary-Anne		Lemus, Hector		Li, Lei	
LeBlanc, Michael		Lenk, Peter		Li, Leping	
Lechner, Michael H		Lenth, Russell		Li, Lexin	
Lee, Ann		Leon, Ramon V		Li, Li	
Lee, C. M.		Lepkowski, James M		Li, Liang	
Lee, Carl	385	Leroux, Brian G	44, 67	Li, Liang	235, 373

Name	Session	Name	Session	Name	Session
Li, Lingling	537	Lin, Feng Min	514	Liu, Honghu	489
Li, Linyuan	496	Lin, Ge	18	Liu, Huimei	247
Li, Meijuan		Lin, Haiqun	236, 331	Liu, Jen-pei	51
Li, Ning		Lin, Huiyi	245, 383	Liu, Jiajun	
Li, Ning		•	504	Liu, Jiawei	110
Li, Pengfei	26	Lin, Lillian S	324	Liu, Jingchen	227, 367
Li, Qianqiu		Lin, Qihua		Liu, Jinze	
Li, Qizhai		Lin, Shili		Liu, Juanmei	
Li, Qunhua		Lin, Tsai-Lien		Liu, Jun	
Li, Runze		Lin, Tsung-I	251	Liu, Jun S81, 12	8, 244, 416, 421, 541
Li, Shelby	495	Lin, Wen		Liu, Kenneth	538
Li, Shengqiao	154, 343	Lin, Xiaojing	293	Liu, Lei	428
Li, Tiandong		Lin, Xiaoyan		Liu, Lei	95, 400
Li, Wei		Lin, Xihong		Liu, Li	285
Li, Wen		Lin, Xiwu		Liu, Lian	
Li, William	422	Lin, Yan	294	Liu, Lin	466
Li, Xiaodong	198	Lin, Yi	148	Liu, Mei	548
Li, Xiaolei		Lindborg, Stacy	484	Liu, Mengling	34, 292, 416, 468
Li, Xiaoming	105	Linder, Ernst		Liu, Nancy	419
Li, Yan		Linder, Jesse		Liu, Peng	
Li, Yehua		Linder, Richard		Liu, Peng	
Li, Yi	288	Lindquist, Martin	322	Liu, Peng	
Li, Yi	376	Lindsay, Bruce G		Liu, Peng	
Li, Yingfu		Link, Michael		Liu, Qingzhong	
Li, Yingxing		Lint, Joseph	266	Liu, Regina	
Li, Yingying		Liou, Jiun W		Liu, Rong	
Li, Yue		Liou, Michelle	390	Liu, Rong	412
Li, Yufeng	294	Lipovetsky, Stan	114, 216, 279	Liu, Shuang	343, 506
Li, Zhonggai	459	Lipsitz, Stuart R		Liu, Shufang	289
Liang, Faming	421, 460	Liquet, Benoit	343	Liu, Suyu	277
Liang, Hua	182, 362	Littell, Ramon	16	Liu, Tao	103
Liang, Juan	33	Little, Roderick J	106, 191, 201, 259,	Liu, Thomas	521
Liang, Kun			468, 501	Liu, Wei-min	528
Liang, Qiwei	154	Liu, Aiyi	64, 149, 548	Liu, Xiaole S	87
Liang, Ruohong	426	Liu, Anna	193	Liu, Xiaolei	292
Liang, Weijian	472	Liu, Ben	339	Liu, Xuefeng	
Liang, Yu	245	Liu, Benmei	70, 71	Liu, Xuxin	
Liang, Yuanyuan	310, 409	Liu, Bitao	473	Liu, Yan	427
Liao, Dan		Liu, Changying	66	Liu, Yi	479
Liao, Jason	134	Liu, Ching-Ti	325	Liu, Yin	85
Liao, Shu-min	289	Liu, Chuanhai	309	Liu, Ying	209
Lim, Johan	135, 499	Liu, Chunling	289	Liu, Yufeng	4, 80, 355, 526
Lim, Johan	377	Liu, Desheng	55	Liu, Yung-Hsin	
Lin, Carol	127	Liu, Diane D	277	Liu, Ziqiang	
Lin, Chien-Ju	154, 537	Liu, Fei	509, 532	Liu-Seifert, Hong	
Lin, Dan		Liu, Guohui	418	Livingston, William	
Lin, Danyu		Liu, Han	57	Lix, Lisa M	

Name	Session	Name	Session	Name	Session
Lloyd, Alun	271	Lummus, Zana	33	 Magiera, Ryszard	509
Lloyd, David	424	Lunceford, Jared	380, 419	Magnan, Shon	216, 279
Lo, Shaw-Hwa	245, 327	Lund, Robert B	450	Magnus, Jeanette	209
LoBianco, Tony	515	Lunt, Mark	62	Magnussen, Steen	514
Lobo, A. Peter	131	Luo, Edmund	198	Mah, Jeng	
Lock, Robin	343	Luo, Gang	144	Mah, Ming-Yi K	239
Lockwood, John R	60, 316	Luo, Jingqin	1, 137	Mahajan, Salil	
Logothetis, Christophe	er J220	Luo, Sheng	426	Mahnken, Jonathan	209
Loh, Ji Meng	45	Luo, Xianghua	426	Mahoney, Douglas W	380
Lohr, Sharon L		Luo, Xiaodong	505	Mai, Enping	425
Lok, Judith J	89	Luo, Xiaohui	145	Maier, Elizabeth	
London, Joshua	326	Luo, Xiaolong	273, 334	Maindonald, John	376
Looney, Stephen W	254	Lupton, Joanne R	85	Maiti, Tapabrata	283
Lopes, Hedibert	460	Lussier, Robert		Maitra, Ranjan	174, 340, 463
Lorenz, Fred		Lv, Jinchi	276, 446, 485	Maity, Arnab	540
Lott, Juanita Tamayo		Lyles, Robert		Majumdar, Dibyen	
Lotz, Meredith		Lynberg, Michele		Mak, Tak	
Loughin, Thomas M		Lynch, Kevin G		Mallick, Bani	
Louis, Thomas A		Lynch, Scott		Mallick, Madhuja	
Love, Kimberly		Ma, Christopher		Mallinckrodt, Craig	
Love, Tanzy		Ma, Guoguang		Malloy, Betty	
Love, Thomas		Ma, Haijun		Malo, Nathalie	
Low, Mark		Ma, Huaiyu		Malthouse, Edward C	
Lowe, Charles N		Ma, Junheng		Maltz, Michael D	
Lozier, Susan		Ma, Larry		Man, Ka Sing	
Lu, Bing		Ma, Libin		Manatunga, Amita K	
Lu, Bo		Ma, Mi-Chia		Mandel, Igor	
Lu, Fei		Ma, Ping		Mandl, Lisa A	
Lu, Guanhua		Ma, Xiulian		Mandrekar, Jayawant	
Lu, Jingsong	113	Ma, Yeming		Mandrekar, Sumithra J	
Lu, Jun		Ma, Yi-Wen		Mansfield, Edward	
Lu, Kaifeng		Ma, Yuejiao		Manson, Jeanne	192
Lu, Lu		Ma, Yuhui		Maravall, Agustin	
Lu, Ruixiao		Ma, Zongming		Marchette, David	
Lu, Shou-En		Maa, Jen-Fue		Marcus, Michele	
Lu, Tao		MacDonald, W. Michael		Margolis, Helene	
Lu, Wenbin		MacEachern, Steven N		Marinucci, Lawrence	
Lu, Xin		Maciejewski, Mary Jo		Marker, David78, 16	
Lu, Xuan		MacKenzie, Ellen		Markiewicz, Shannon	
Lu, Yan		MacLehose, Richard		Marler, Mathew R	
Lu, Ying		MacLeod, Jamie		Marquez, Pablo	
Lu, Yun		MacNab, Ying		Marron, J. Stephen	
Lu, Zeng-Hua		Macones, George A		Marshall, Scott	
Luan, Xianqun		Madans, Jennifer		Martin, Paul J	
Lubitz, James		Madigan, David		Martinez, Wendy	
Luca, Diana		Madiman, Mokshay		Martinez-Canales, Monica	
Lumley, Thomas		Madsen, Lisa		Martinez-Gomez, Elizabet	

Name	Session	Name	Session	Name	Session
Martorell, Francisco	316	McElroy, Tucker S	262, 407	Michels, Gerald	343
Marusic, Suzana	25	McFarlane, Shelly		Michelson, Diane K	493
Maruyama, Nami		McGee, Monnie		Michlin, Yefim H	
Marzjarani, Morteza		McGovern, Pamela D	41	Mieleitner, Johanna	271
Mascha, Edward	103	McHenry, M. Brent	545	Mietlowski, William L	117
Maslova, Inga	294	McKeague, Ian	6	Miller, Arden	204
Mason, Christopher J	380	McKean, Joseph W		Miller, Diane B	209
Mason, Robert L	343	McKenzie, John	206, 436	Miller, Forrest	325
Massam, Helene M	1	McKnight, Curtis C	294	Miller, Jacqueline74	4, 165, 214, 303,
Massie, Tammy	195, 376	McLaren, Craig H	262		319, 348, 436
Massie, Tristan	195	McMenamin, Terence M	221	Miller, Keith	
Matejcik, Frank	30	McMichael, Joseph	125	Miller, Kerri	
Mateo, Zenaida F	545	McMillian, Michael	223	Miller, Loren G	
Mathaisel, Dennis	424	McMullan, Trevor	199	Miller, R. Alan	
Mathew, Thomas	510	McMullen, Ed	530	Miller, Stephen M	
Mathias, Jasmine	154	McNally, Richard	65	Milleville, Diane M	
Mathur, Sunil	110	McNeil, Don R	387	Millikan, Randall E	
Matis, James	343	McNeil, Rebecca	154	Mills, Katherine	
Matis, Timothy	343	McRoberts, Ronald E	48	Min, Wanli	
Matsuyama, Yutaka	234, 284	McVey, Elaine A	154	Minami, Mihoko	
Matteson, David S	247	Mealli, Fabrizia	113	Minard, Charles	
Matzke, Brett	424	Mease, David	98	Minev, Yordan	
Maurer, Willi	270	Mee, Robert W	317, 422	Minhajuddin, Abu	
Mauromoustakos, Andy	154	Meeker, William	29, 203	Minin, Vladimir N	
May, Susanne		Meekins, Brian		Mira, Antonietta	
Mayo, Matthew	209	Mehrotra, Devan V		Miranda, Marie Lynn	
Mays, Mary		Mehta, Cyrus		Miron, Alexander	
Mayton, Donna		Mehta, Sumi		Mischel, Paul	
Mazumdar, Madhu		Mei, Yajun		Mischke, Jennifer	
Mazumdar, Sati		Meletiou-Mavrotheris, M		Mishra, Kaushal	
Mburu, Peter		Melnick, Ed		Mislevy, Robert	
McAllister, Andrea		Meltzer, David		Misra, Sanjog	
McAteer, R.T. James		Mendell, Nancy		Mitchell, Derek	
McAuliffe, Jon D		Mendez, Guillermo		Mitchell, Matthew	
McCabe, George P		Menendez, Patricia		Mitra, Amitava	
McCaffrey, Daniel		Meng, Chen		Mitra, Pranab K	
McCandless, Lawrence		Meng, Xiao-li		Mitra, Robin	
McCann, Melinda		Meng, Zhaoling		Mitra, Sinjini	
McCarter, Kevin S		Menius, J. Alan		M'lan, Cyr E	
McCormick, Tyler H		Merl, Daniel		Mnatsakanova, Anna	
McCormick, William P		Messer, Karen		Mnatsakanyan, Zaruhi R	
McCulloch, Charles E		Messner, Michael J		Mo, Min	
McCulloch, Robert		Meyer, Renate		Mo, Qianxing	
McCune, Ennis		Miao, Weiwen		Moerbeek, Mirjam	
McCune, Sandra L		Miao, Xiaopeng		Mohadjer, Leyla	
McDermott, Aidan		Michailidis, George		Mohanty, Surya	
McDonald, Jill	515		166, 250, 339	Mohl, Chris	293

Name	Session	Name	Session	Name	Session
Moisen, Gretchen G	48, 525	Mulrow, Jeri	479	Nathan, Swami	203
Molenberghs, Geert 25, 8	35, 310, 430, 484	Mun, Jungwon	377	Natsoulis, Georges	223
Molina Cruz, Roberto	547	Munagala, Kamesh	321	Nazarenko, Irina	154
Monahan, John F	423	Munasinghe, Wijith	343	Neal, Cora	290
Mongin, Steven	503	Mundfrom, Daniel	343	Neath, Andrew	244
Monni, Stefano	313	Munoz, Alvaro	420	Nebebe, Fassil	343
Monsell, Brian	262	Munoz, Yolanda	294	Neill, Daniel B	318
Montaquila, Jill M	36, 259, 428	Munsell, Mark F	277	Neill, James	325
Montgomery, Douglas C	345, 487	Murdoch, Duncan	375	Nelson, Dawn V	116
Montgomery, Robert	115, 343	Murphy, Jeffrey	329	Nelson, Dean	546
Moon, Hojin	537	Murphy, Susan	144, 234	Nelson, Jennifer	151, 209
Moonen, Francois	134	Murphy, Teri J	294	Nelson, Kerrie	106
Moons, Karel G	371	Murphy, Terrence	515	Nelson, Larry A	47
Moore, Andrew W	318	Murray, Sharon	343, 369	Nelson, Paul I	52, 343
Moore, Dirk	33, 335	Musser, Bret	430	Nelson, Teresa	373
Moore, Johnnie N		Muthen, Bengt	72, 153, 192	Nettleton, Dan	283
Moore, Renee	387	Myers, David	316	Neuhaus, John	44, 182
Moore, William T	473	Myers, Kary		Neuhauser, Claudia	122
Mor, Maria	374	Myers, Leann		Nevalainen, Jaakko	382
Morara, Michele	291	Myers, Raymond H	222	Nevius, Anna	363, 451
Morel, José	448	Mykland, Per A		Newman, Anne	278
Moreno, Jerry		Nadeau, Christian		Newton, Lydia	
Morgan, Carolyn		Nadina, Duran-Hutchings.		Ng, Brenda	
Morgan, Joseph		Nadkarni, Nivedita		Ng, Hon Keung (Tony)	
Morgan, Morris		Nadolski, Jeremy		Ng, Moh-Jee	
Moriarity, Chris		Naftel, David		Ng, Serena	
Morrell, Christopher		Nagaraja, Chaitra		Ng, Tie-Hua	
Morris, Jeffrey S		Nagaraja, Haikady		Ngo, Long H	
Morton, Katherine		Nagaraja, Jyothi		Nguyen, Thuan	
Moser, Carlee		Nagin, Daniel		Nguyen-Oghalai, Tracy	
Moura, Fernando		Nair, K. Sreekumaran		Ni, Shawn	
Mousavi, Shabnam		Nair, Sheela		Ni, Xiao	
Moye, Lemuel		Najarian, Kayvan	478	Ni, Xuelei	
Mueller, Peter		Najarian, Kevin		Nichols, Elizabeth M	
Mueller, Ursula		Najjar, Samer S		Nickl, Richard	
Mueller-Harknett, Ursula		Nakamura, Kazuyuki		Nickleach, Scott	
Mugglin, Andrew		Nakonezny, Paul		Nicolis, Orietta	
Mukherjee, Bhramar		Nam, Jun-mo		Nie, Alex	
Mukherjee, Kanchan		Nam, Seungmin		Nie, Lei	
Mukherjee, Sayan		Nandram, Balgobin		Nielsen, Jason	
Mukhi, Vandana		Nangia, Narinder		Nielsen, Søren S	
Mukhopadhyay, Jaydip		Narayanan, Sridar		Niewiadomska-Bugaj, Mag	
Mukhopadhyay, Pralay		Nardi, Yuval		Ning, Wei	
Mulcahy, Tim		Nason, James		Niu, Yue	
Mulekar, Madhuri S		Natarajan, Jaya		Noe, Douglas	
Müller, Hans-Georg		Natarajan, Kannan		Nolan, Deborah	
Muller, Keith E		Natarajan, Sundar		Nolan, Vikki	

Name	Session	Name	Session	Name	Session
Nordman, Daniel	174, 338	Oral, Evrim	333	Papkov, Galen	543
Nordmoe, Eric	154	Oranje, Andreas	209	Pardo, Leandro	336
Norton, Harry	254	Orellana, Liliana	89	Parfionovas, Andrejus	144
Norton, Jonathan	505	Orkin, Michael	53, 478	Park, Do-Hwan	517
Norton, Julia	294	Orlando, David	313	Park, Grace	62
Norton, Robert	154	Oron, Assaf		Park, Heon Jin	135
Notz, William	250, 433	Orris, James B	294	Park, Inho	330
Novick, Steven J	370, 498	Ortega Azurduy, Shirley	64	Park, Jeong-Gun	284
Nugent, Rebecca	249, 340	Ostarello, Andrew	200, 478	Park, Jin-Hong	17
Nunn, Martha E	25	Ostdiek, Barbara	472	Park, Junyong	189
Nunnery, Joni	206	Osterlind, Steven J	547	Park, Taeyoung	58, 97
Nussbaum, Barry D	231, 291	Ott, Melvin	28	Park, Trevor	
Nusser, Sarah M		Otter, Thomas	190, 237, 314	Parker, Mary	21
Nychka, Douglas	185, 321	Otto, Mark C	330	Parker, Robert	296
Nygaard, Staale	343	Oudega, Ruud	371	Parks, Daniel	285
Obenchain, Robert		Ouyang, Zhi	147	Parmigiani, Giovanni	357
Obenski, Sally	239	OuYoung, Chih-Wen	343	Parsons, Van	179, 343
Oberg, Ann L	380	Owen, Art	355	Parzen, Emanuel	157
O'Brien, Corinne		Owunwanne, Daniel	200	Pastel, Mary	329
O'Brien, John	188	Ozaksoy, Isin	502	Patak, Zdenek	288
O'Brien, Liam M	206	Ozonoff, Al		Patel, Dilip	
O'Brien, Ralph G	84, 254, 281	Ozturk, Omer	52, 499	Patel, Nitin	14
Obsorne, Jason		Paben, Steven P	288, 389	Patel, Vishal	234
Ochs, Robert	534	Paddock, Susan	19	Patil, Ganapati P	
O'Colmain, Benita	152	Padilla, Miguel	502	Pattaro, Cristian	357
O'Connell, Michael	132, 456	Pagano, Marcello	402, 505	Patterson, Angie	162
Ogawa, Sachio	16	Pahwa, Punam	64, 477, 514	Patterson, Paul	29
Ogden, R. Todd	463, 494	Pai, Jeffrey	275	Patterson, Scott	274, 521
Oh, Cheongeun	332	Paik Schoenberg, Frederic	386	Paul, Rajib	291
Oh, Sungun	294	Paik, Min Hui	35	Paul, Sofia	469
Ohashi, Yasuo	234	Pajukanta, Paivi	502	Paulo, Rui	532
Ohyama, Tetsuji	244	Paksashvili, Temur	342	Paulus, Harold E	62
Oja, Hannu	382	Palm, Franz	88	Pavlicova, Martina	463, 494
Okafor, Raymond	513, 542	Palmateer, Julia	343	Peace, Karl	538
Okamoto, Akiko	470	Pals, Sherri L	324	Pearl, Dennis K	50, 141
Olbricht, Gayla R	230	Palta, Mari	151, 363	Pearl, Judea	265
Olds, Rolanda	33	Pan, Jen-Nan	343	Pearson, Alexander	60
Olsen, Joseph	114	Pan, Jianxin	44	Pearson, Ronald	471
Olshansky, S. Jay	393	Pan, Lan	323, 495	Peck, Roxy	319
Olson, Kristen	293, 414	Pan, Qing	92	Pedigo, Steven W	394
O'Malley, Alistair J	293	Pan, Wei	23, 283	Pedlow, Steven	253, 341
O'Malley, Meghan	428	Pan, Wei	68, 510	Pedroza, Claudia	202
Ombao, Hernando C	524	Pan, Xueliang	141	Peduzzi, Peter	331
O'Muircheartaigh, Colm	125	Panageas, Katherine	148	Pellas, Theodore C	117
Onar, Arzu	422	Pang, Christianne	479	Pelletier, Bruno	108
Opara, Athanasius	513	Paninski, Liam	534	Pemberton, Michael	115
Opsomer, Jean	72, 207, 252	Pantula, Sastry	146	Pena, Edsel A	95, 243

Name	Session	Name	Session	Name	Session
Pencina, Michael J	371, 480	Pillai, Natesh	57	Preston, Dale	233
Pendleton, Audrey	316	Pineau, Vicki	479	Preston, Richard	537
Peng, Hanxiang	538, 540	Pinheiro, Jose	176	Prewitt, Kathryn	204
Peng, Jie	111	Piryatinska, Alexandra	154	Priebe, Carey E	251
Peng, Jie	56, 187, 236	Pitcock, Jeffrey A	209	Prisley, Stephen	529
Peng, Jyh-Ying	262, 494	Pitman, E. Bruce	271	Pritchett, Yili	198
Peng, Lei	273	Pitman, Jim	211	Proust-Lima, Cecile	104
Peng, Limin	480	Pivetz, Tim	291	Provost, Serge	108
Peng, Roger	5, 33	Plaisier, Christopher	502	Prucka, William	201
Peng, Yingwei	15	Platt, Jerry	294	Pu, Wenji	530
Pennell, Michael	19	Platt, Robert W	376	Puggioni, Gavino	294, 321
Pennington, Robin A	448	Plewes, Thomas J	364	Pullenayegum, Eleanor	254
Penzer, Jeremy	146	Plikaytis, Brian D	113	Pulsipher, Brent	424
Pepe, Margaret	92, 371, 504, 528	Plon, Sharon	333	Punjabi, Naresh	359
Pereda, Peggy	323, 458, 530	Pocernich, Matthew	482	Puri, Madan	375
Perera, Timothy		Pokta, Suriani	145	Purkayastha, D. Das	199
Perevozskaya, Inna	37	Polansky, Alan	149, 338	Putcha, Lakshmi	471
Perez, Maria E	232	Polhemus, Neil		Putt, Mary	409
Pericchi, Luis R	232, 399, 461	Politis, Dimitris		Qaqish, Bahjat	
Perrett, Jamis	206, 343	Polivka, Anne E	221	Qi, Yongcheng	
Perrin, Olivier		Pollack, J. Dennis	141	Qian, Hui-Rong	
Pershing, Andrew	512	Pollak, Edward		Qian, Jiahe	
Peruggia, Mario		Pollard, David		Qian, Lei	
Perumean-Chaney, Suza		Pollard, William	477	Qian, Zhiguang	
Peterson, Alan		Polley, Mei-Yin C		Qin, Gengsheng	
Peterson, Bradley G		Pollock, Ken		Qin, Jing	
Peterson, Derick R		Polonik, Wolfang		Qin, Li	
Peterson, John		Polson, Nicholas		Qin, Rui	
Peterson, Kimberly		Pomp, Daniel		Qin, Yingli	
Petkova, Eva		Ponisciak, Stephen		Qiu, Dingxi	
Petrie, Adam		Poor, Vincent		Qiu, Jing	
Petroski, Gregory		Poppleton, Landon		Qiu, Junshan	
Petty, Judith		Porter, Jane B		Qiu, Peihua	
Petty, Karl		Portier, Kenneth		Qiu, Xing	
Peytchev, Andy		Portnoy, Stephen		Qu, Annie	
Peytcheva, Emilia		Portugal, Susan		Qu, Leming	
Pfeffermann, Danny		Posner, Michael		Qu, Xianggui	
Pflaumer, Peter		Potter, Frank J		Qu, Yongming	
Phalp, Tyson T		Powaga, Ken		Quackenboss, James	
Phelps, Amy		Pratola, Matthew		Quan, Hui	
Phillips, Robert		Pratt, Kenneth W		Quasem, Mohammad	
Phoa, Kin Hing (Frederi		Pregibon, Daryl		Que, Quick	
Piegorsch, Walter W		Preisser, John		Quinlan, Michelle	
Piepel, Greg		Prentice, Ross L		Quiton, Jonathan	
Pieper, Carl F		Preplyshev, Andrey		Radchenko, Peter	
Piesse, Andrea R		Presnell, Brett		Raessler, Susanne	
Pigeon, Joseph G		Presser, Stanley		Raftery, Adrian E	

Name	Session	Name	Session	Name	Session
Raghavan , Nandini	223	Reeves, Robert	514	Robinson Gilbert, Kim	319
Raghavarao, Damaraju	201	Regenbogen, Scott	151, 294	Robinson, J. Gregory	368
Raghunathan, Trivellore E	35, 264,	Reich, Brian		Robinson, Peter M	
	365, 414, 501	Reich, Daniel S	201	Robinson, Timothy J	222
Raglin, David	207	Reichert, Peter	271, 532	Rocha, Guilherme V	446
Rahbar, Mohammad	289	Reid, Nancy	228, 363, 423	Rocha, Luis	328
Rahman, M. Mahbubur	336	Reilly, Cavan	59, 380, 421	Rochester, George	154
Rahman, S. M. Mahbubur	544	Reilly, James	389	Rocke, David	143, 285, 506
Rajaram, Misha L	466	Reis, Ben Y		Rockwood, Todd	
Rajaratnam, Bala	1	Reiter, Jerome P	82, 191, 202, 365	Rodgers, Crystal	231
Rajicic, Natasa	10	Remsburg, Robin	288	Rodriguez, Abel	20, 97
Rajput, Adil	68	Ren, Haobo		Rodriguez, Robert	433
Ralph, Sue	72	Renfro, Lindsay	294	Rodríguez, Rolando	82
Ramachandran, Kandethody	548	Reponen, Tiina		Rodriguez-Yam, Gabriel	
Ramamoorthi, R. V	332	Resnick, Dean M		Rodriguez-Zas, Sandra	63, 102, 154
Ramaswamy, Ratna	65	Retzer, Joseph J	237	Roe, Matthew	
Ramler, Ivan	340	Reyner, Daniel		Roeder, Kathryn	502
Ramsey, Katrina	79	Rezazad, Hadi	384	Roethig, Hans	
Rana, Asad	154	Rice, Janet		Rogatko, André	
Randall, Bryan	495	Rice, John		Rogers, James P	
Randles, Ronald	149	Rice, Kenneth		Roland, Christophe	
Randolph, Timothy	87	Richards, Thomas J		Rolka, Henry	
Rao, J. N. K	70, 224, 330	Richards, Winston A		Rong, Alan	
Rao, Marepalli B	. 198, 292, 536	Richardson, Joseph		Roopnarine, Peter	
Rao, Raj	107	Richardson, Peter		Roozeboom, Michelle	
Rao, Youlan	285	Richardson, Thomas		Rope, Daniel	
Raphael, Martin G	266	Richman, Michael		Rose, Charles E	
Rappard, Fred	208	Richter, Scott		Rosen, Adam	
Rappold, Ana	410, 450	Riggs, Kent	510	Rosen, Mitchell	379
Rashid, M. Mushfiqur	149	Ripley, Brian D		Rosen, Ori	22
Rasp, John	343	Ritchie, Kim		Rosenbaum, Janet	
Rässler, Susanne	35	Ritov, Yaacov		Rosenbaum, Paul	
Ratcliffe, Sarah	192, 515	Ritter, Marcie W		Rosenberg, Philip S	
Rath, Mousumi	154	Ritter, Matthew	175	Rosenberger, James L	
Ratner, Michael	367	Rivers, Douglas		Rosenberger, William	
Raudenbush, Stephen	72	Rizzo, Maria L		Rosenthall, Jorge	
Ravishanker, Nalini	. 275, 286, 508	Rizzo, Matthew		Roskelley, Kenneth	
Ray, Bonnie	507	Roayaei, Jean		Rosner, Bernard	
Ray, Rose	53	Robbins, Joyce		Rosner, Gary	
Ray, Surajit	461	Robbins, Naomi		Ross, Arun	
Reagan, Patricia	479	Robert, Christian P		Ross, James G	
Recta, Virginia	476	Roberts, Clint		Ross, N. Phillip	
Redden, David T		Roberts, Henry		Ross, Zev	
Redelings, Benjamin		Roberts, Leslie		Rosset, Saharon	
Reeder, Dawn		Robertson, Stephen		Rossi, Barbara	
Reese, C. Shane		Robins, Garry		Rossman, Allan	
Reeves, Denise		Robins, James		Rotenstreich, Shmuel	
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		secilot eleig offiliaci	

Name	Session	Name	Session	Name	Session
Roth, Arthur	15, 65	Said, Yasmin H2	28, 68, 150, 181, 230,	Schaffer, Jay	343
Roth, Jeffrey	515	26	7, 384, 402, 492, 535	Schar, Bryan G	546
Rothman, Edward D	493	Sain, Stephan	185, 321, 401	Scharfstein, Daniel	151
Rothman, Kenneth J	173	Salam, Abdul	549	Schaubel, Douglas	92, 95, 480
Rotnitzky, Andrea	89, 151	Salganik, Matthew J	390	Scheidt, Peter C	259
Rotondo, John	36	Salibián-Barrera, Matía	as333	Schell, Michael	77, 155, 272
Rotz, Wendy	440	Salmon, Andrew G	525	Schenerman, Mark	537
Rouder, Jeffrey	410	Salsberry, Pamela	479	Schenker, Nathaniel	35, 227, 278
Rouzine, Igor	415	Salvo, Joseph	131	Schervish, Mark J	244
Röver, Christian	367	Samaranayake, V. A	73, 209, 212, 265	Scheuermann, Richard	154
Rowe, Daniel	322, 494	Samawi, Hani	52	Scheuren, Fritz84	4, 230, 342, 368, 443
Rowell, Ginger Holmes	319	Samet, Jonathan	33	Scheurer, Michael	548
Roy, Anindya	287, 310, 338	Sammel, Mary D	192	Schick, Anton	186, 496
Roy, Anuradha	111	Sampson, Allan	377	Schield, Marshall	140
Roy, Jason	19, 332, 444	Samuels, Steven J	480	Schield, Milo	140
Roy, Soma		Sanchez, Brisa	192	Schindler, Jerald S	130
Roychoudhury, Satrajit		Sanchez, Juana	294, 465	Schipper, Matthew	417
Rozet, Eric		Sanchez, Maria M	198	Schlatt, Michael	
Ruan, Shiling		Sandell, Julia	411	Schleicher, Keith	77
Ruberg, Stephen		Sanders-Reed, Carol	326	Schliekelman, Paul	154
Rubin, Donald B9, 8		Sang, Huiyan	386	Schmidt, Alexandra	410
Rubinshtein, Evgenia		Sangster, Roberta	13, 61, 405	Schmitt, Ketra	
Ruczinski, Ingo		Sankoh, Abdul	94	Schmitt, Thomas	
Rudser, Kyle		Sanso, Bruno	532	Schneeweiss, Sebastian	
Ruiz, Ramiro		Santana, Alison	285, 506	Schneider, Michael	
Ruiz, Roberta J		Santner, Thomas	250, 291, 497, 532	Schoenfeld, David A	
Ruiz-Quintanilla, S. Anton		Santos, Robert	455	Schofield, Timothy	
Rukhin, Andrew		Saravanan, Ramalingar	n185	Schonlau, Matthias	
Rullkoetter, Paul		Sargent, Daniel J	484, 488	Schooley, Robert L	
Rumcheva, Pavlina		Sargent, James	144	Schootman, Mario	
Ruppert, David10		Sarkar, Sanat	27, 539	Schork, Nicholas J	
Russek-Cohen, Estelle		Sartori, Nicola	228	Schou, Sue	
Russell, J. Neil		Sashegyi, Andreas	334, 538	Schrag, Deborah	
Russell, Louise B		Sass, Marcia M	294	Schucany, William R	
Rust, Keith		Sathe, Neeraja	70	Schuckers, Michael	
Rutter, Michael		Sattar, M. Abdus	104	Schur, Peter	
Ryan, Louise		Satten, Glen	245	Schwab, David	
Rybolt, William		Sauer, John R	330	Schwartz, Elissa	
Rytina, Nancy F		Saunders, Christopher	154, 294	Schwenke, James	
Rzhetsky, Andrey		Saville, Benjamin	286	Scotland, Leman	
Saavedra, Pedro J		Sawrie, David		Scott, Alastair J	
Sacks, Jerry		Sawyerr, Gosford		Scott, David W	
Sadek, Ramses		Scanlan, James P		Scott, James	
Saha, Krishna		Scarinzi, Cecilia		Scott, Jessica M	
Saha, Sourish		Schaalje, G. Bruce		Scott, Sean	
Sahu, Sujit		Schabenberger, Oliver		Scott, Steven L	
		Schafer, Chad		Scott, Stuart	
		Ī.		,	

Name	Session	Name	Session	Name	Session
Seaman, Jr., John W	154, 337	Sharma, Dhruv	96	Shin, Dong-Guk	497
Seastrom, Marilyn		Sharma, I		Shin, Hee-Choon	
Seaver, William		Sharp, John T	62	Shin, Hyejin	
Sebastiani, Paola	286, 421	Shatirishvili, Mamuka		Shin, Sangwoo	
Sedransk, Joe	337	Shaw, Kate M	209	Shine, James	150, 545
See, Kyoungah	51	Shaw, Pamela A	420	Shipp, Stephanie	428
Seekins, Daniel	470	Shaw, Souradet	477	Shirley, Kenneth	
Seeley, Cathy	268	Shay, David K	34, 113	Shiu, Shang-Ying	340
Seffens, William	416	Shayib, Mohammed A	423	Shkedy, Ziv	506
Sego, Landon	424, 434	Sheather, Simon	251, 267	Shock, Scott S	343
Segreti, Anthony	419	Shedden, Kerby	6, 356	Shore, Felice	385
Seguy, Nicole	324	Shekhar, Shashi	150	Short, Margaret	476
Seier, Edith	511	Shelley, Mack	72	Short, Thomas H	126
Seillier-Moiseiwitsch, Fran	ncoise272, 285	Shen, Changyu	209	Shoung, Jyh-Ming	93
Sekhon, Jasjeet	72	Shen, Haige	421	Shulman, Holly	152
Sekiguchi, Risa	16	Shen, Haipeng		Shulman, Stanley	424
Sen, Amit		Shen, Hui	356	Shults, Justine	423
Sen, Bodhisattva	336	Shen, Jing	67	Shum, Kenny	28
Sen, Pranab K	508, 531	Shen, Larry Z	378	Shwartz, Larisa	205, 250
Sen, Rituparna	407	Shen, Pao-S	251	Shyr, Yu	
Senior, Peter	549	Shen, Ronglai		Siddani, Ravi	
Senoglue, Bridal		Shen, Xiaotong		Sieber, William K	
Senturk-Doganaksoy, Den		Shen, Yu		Siegel, Andrew	
Seong, Byeongchan		Sheng, Shan L		Siegmund, David	
Seong, Young J		Sheng, Xiaoming		Signorovitch, James	
Serfling, Robert		Shentu, Yue		Silberstein, Adam	
Serre, Marc		Shepherd, Bryan		Silva, Romesh	
Sethuraman, Venkat		Sheppard, David		Silverman, Bernard W	
Setodji, Messan C		Sheppard, Elizabeth A		Sima, Camelia	
Sha, Naijun		Sheriff, Steve		Simas, Tiago	
Shaffer, Jeffrey		Sherman, Michael		Simmons, Susan	
Shaffer, John		Sherrill, Beth		Simon, Stephen D	
Shaffer, Michele		Shete, Sanjay		Simpson, Douglas	
Shah, Arvind K		Shetty, Veena		Singh, Harshinder	
Shalizi, Cosma		Shi, Di		Singh, Jagbir	
Shang, Junfeng		Shi, Jianjun		Singhal, Harsh	
Shang, Nong		Shi, Jiaxiao		Singpurwalla, Nozer D	
Shang, Zhe		Shi, Qian		Sinha, Debajyoti	
Shannon, William		Shi, Tao		Sinharay, Sandip	
Shao, Jun		Shi, Xin		Sinsheimer, Janet	
Shao, Qin		Shi, Ying		Sirken, Monroe	
Shao, Xiaofeng		Shih, Alex		Sitter, Randy R	
Shao, Yongzhao		Shih, Joanna H		Sivo, Stephen	
Shapiro, Gary		Shih, Mei-Chiung		Skalland, Benjamin	
Shapiro, Irwin		Shih, Weichung J		Skerrette, Nyasha	
Shapiro, James A.M.		Shim, Heejung		Slate, Elizabeth H	
Sharabati, Walid	384	Shimizu, Iris	288, 388, 389	Slaven, James	209

Name	Session	Name	Session	Name	Session
Slavkovic, Aleksandra	191, 248	Song, Rui	6	Steinwart, Ingo	398
Slee, April	477	Song, Ruiguang	324	Stephens, Matthew	154
Sloan, Elizabeth	291	Song, Seongho	509	Stephens, Torrance T	324
Sloan, Kevin L	374	Song, Weixing	110, 496	Stern, Hal	
Slotwiner, Daniel	455	Song, Yang	334	Stern, Sharon	221
Small, Dylan	135, 234, 444	Song, Yong	386	Sternberg, Maya	341
Small, Mitchell	244	Soon, Guoxing		Stets, Laura	195
Smeraglia, John	154	Soong, Seng-jaw	245, 294, 383	Stettler, Nicolas	227
Smith, Brandon	63	Sorock, Gary S	426	Stevens, John R	27
Smith, Brian	274	Soulakova, Julia	377	Stevens, John W	521
Smith, Brian E	385	Southey, Bruce	63, 102, 154	Stevens, Jr., Don L	48
Smith, Charles	245	Spackman, Matthew P.	549	Stewart, Susan L	148, 519
Smith, Che	343	Speckman, Paul		Stine, Robert	27
Smith, Eric P	266, 529	Speed, F. Michael		Stockdale, Gregory	378
Smith, Lee Ann	343	Speed, Terence		Stockton, Tom	
Smith, Leonard		Spence, Jeffrey		Stoev, Stilian	
Smith, Michael	14	Spencer, Bruce D		Stokes, S. Lynne	
Smith, Michael S		Spencer, Katie		Stokes-Riner, Abbie	
Smith, Philip J		Spiegelman, Donna		Stone, Mischelle T	
Smith, Phillip		Springer, Glenn		Stone, Roslyn A	374
Smith, Richard L		Srebro, Nathan		Stoner, Julie A	
Smith, Ruben		Srivastata, Anuj		Stoner, Michael	
Smith, Steven G		Srivastav, Sudesh		Stoner, Sarah	
Smith, Tyra D		Srivastava, Muni S		Stoney, Catherine M	
Smith, Woollcott		Sroka, Chris		Stork, LeAnna G	
Smyth, Gordon		St Laurent, Roy		Story, Michael	
Smyth, Jolene		Stager, Bill		Stovring, Henrik	
Snapinn, Steven		Stamey, James		Straetemans, Roel	
Snead, David		Stancu, Alexander		Stram, Daniel	
Snidero, Silvia		Stangl, Dalene		Strassburger, Klaus	
Sninsky, John	528	Starbuck, Robert		Strauss, Warren	
Snow, Gregory L		Starsinic, Michael		Street, Debra A	549
Snowdon, David		Stasny, Elizabeth A		Strobl, Carolin	
Sobek, Matthew		Staudenmayer, John		Strom, Sara	
Sobel, Marc		Stave, Channing		Stromberg, Arnold	
Solenberger, Peter		Stayton, Catherine		Strome, Erin	
Solka, Jeffrey		Steel, Mark F.J		Stroud, Jonathan	
Solomon, Daniel H		Steele, Brian		Stroup, Donna	
Solomon, Scott		Steele, Russell		Stroup, Walt	
Solonen, Antti		Stefanski, Leonard A		Strudler, Michael	
Somers, Kay		Steffey, Duane		Stuart, Elizabeth A	
Song, Aijun		Stein, Michael		Stuetzle, Werner	
Song, Chwan-Chin		Steinberg, Barry		Stufken, John	
Song, Hae-Ryoung		Steinberg, David		Stull, Jason	
Song, Jingli		Steinberg, Martin		Stürmer, Til	
Song, Kijoung		Steiner, Elizabeth		Su, Li	
Song, Kyunghee		Steinley, Douglas		Su, Pei-Fang	

Name Se	ssion	Name	Session	Name	Session
Su, Steve Yu Shuo	383	Swinford, Steven	61	Tarpey, Thaddeus	197
Su, Yuhua		Swirszcz, Grzegorz	446	Tarricone, Celeste	
Subedi, Dipendra	381	Switzer, Paul		Tarter, Michael E	
Subramaniam, Ganesh		Symanowski, James		Tarwater, Patrick	254
Suchard, Marc A 59, 141, 188	, 313,	Symanski, Elaine		Tasdan, Feridun	149
415	5, 466	Symanzik, Juergen	505	Tassone, Eric	476
Sudjianto, Agus249, 250), 478	Symmons, Deborah P.M.		Taylor, Alan M	27
Suen, Chung-yi	108	Szarek, Michael	243	Taylor, Jeremy15,	20, 104, 417, 453
Suess, Eric		Szatmari-Voicu, Daniela.	336	Taylor, Jonathan E	449
Sugano, Adam		Szewczyk, William F	181, 492	Taylor, Veronica	156
Sukasih, Amang S		Szurek, Joe	546	Tchetcherina, Natalia	63
Sullivan, Joe403		Szychowski, Jeff M	540	Tchumtchoua, Sylvie	237
Sullivan, Lisa M.		Taam, Winson	282	Tebbs, Joshua M	67
Summitt, Carol		Taddy, Matthew	97, 398, 532	Tegge, Allison	154
Sun, Dongchu 137, 266, 410, 459, 461		Tadesse, Mahlet G	96, 313	Telesca, Donatello	59, 328
Sun, Guowen (Gordon)		Tai, Feng	23	Temple Lang, Duncan	312, 522
Sun, Jianguo10, 426		Takahashi, Fumiaki	51, 197, 270	Tenhave, Thomas R	192, 234, 531
Sun, Jiayang251, 337		Takeuchi, Masahiro	16, 51, 197, 270	Teranishi, Sachiko	233
Sun, Junfeng		Talih, Makram		Terry, Robert	294
Sun, Kang		Talloen, Willem	506	Terryn, Benedicte	501
Sun, Min		Tam, Mike		Tersine, Anthony	
Sun, Ning81		Tambay, Jean-Louis	330	Tersine, Jr., Anthony	99
Sun, Peng		Tamer, Elie		Tezek, Zivana	
Sun, Shumei		Tamhane, Ajit		Thabane, Lehana	
Sun, Shuxia		Tan, Alai		Thach, Thuan Q	
Sun, Wei		Tan, Frans		Thall, Peter F	
Sun, Wenguang		Tan, Ming T		Thamer, Mae	
Sun, Xiaoqian266		Tan, Xianming		Thas, Olivier	
Sun, Yanqing		Tan, Zhiqiang		Theobald, Chris	
Sun, Zhiping		Tanaka, Sachiko		Therneau, Terry M	
Sundaram, Rajeshwari103		Tanaka, Shiro		Thesia, Garner	
Sutherland, Jason M		Tanaka, Yoko		Theuns, Peter	
Svendsgaard, David		Tancredi, Daniel		Theus, Martin	
Sverdlov, Lev		Tang, Cheng Yong		Thiagarajah, Ranee	
Sverdlov, Serge		Tang, En-Tzu		Thibaudeau, Yves	
Swabb, Edward		Tang, Gong		Thomas, D. Roland	
Swamy, Geeta		Tang, Liansheng		Thomas, Duncan C	
Swamy, M. N. S.		Tang, Lingqi		Thompson, Bruce	
Swanson, David		Tang, Weihua		Thompson, Elizabeth	
Swanson, David A131		Tang, Weihua		Thompson, John	
Swartz, Kenneth		Tang, Yongqiang		Thompson, Kevin	
Swartz, Michael D.		Tang, Yuhong		Thompson, Laura	
Swatt, Marc L		Tang, Yuxiao		Thompson, Mary E	
Swayne, Deborah215		Tang, Zhongwen		Thompson, Sarah	
Swern, Arlene		Tannir, Nizar M		Thompson, Steve K	
Swihart, Bruce		Tanur, Judith M		Thompson, Theodore J	
Swiler, Laura	532	Tarima, Sergey	106	Thompson, Wesley	531

Name	Session	Name	Session	Name	Session
Thompson, William W	34, 113	Truxillo, Catherine	329	Valdez-Jasso, Zibonele	154
Thorderson, Larry	246	Tsai, Chen-An	154	Valliant, Richard	252, 342
Thorleifsson, Gudmar	536	Tsai, Chih-Ling	362	Van Acker, Frederik	208
Thostenson, Jeff	294	Tsai, Kao-Tai	470, 538	Van Bellegem, Sebastien	524
Thurston, Sally W	109, 332	Tsai, Shirley	35	Van Boening, Mark	255
Tian, Hong	274	Tsai, Wei-Yann	505	van de Geer, Sara A	490
Tian, Lu	83, 128, 226	Tsay, Ruey S	247	Van den Brakel, Jan	207, 514
Tiao, George	55	Tse, Siu-Keung	273	van den Broeck, Jan	152
Tibshirani, Robert	272	Tseng, Chien-Cheng	143	Van Den Wyngaert, Ilse	506
Tighiouart, Mourad	66, 467	Tseng, Chi-hong	292	van der Laan, Mark J	89, 126, 265
Tiller, Richard	262	Tseng, George C	468	van Dyk, David .58, 158, 29	7, 367, 411, 432
Timothy, McMurry	338	Tseng, Szu-Ching	106	Van Keilegom, Ingrid	257
Tinetti, Mary	515	Tsilimingras, Dennis	24	Van Ness, Peter H	
Ting, Naitee	418	Tsong, Yi	93, 154, 369	van Norden, Simon	320
Tintle, Nathan	67, 154	Tsou, Hsiao-Hui	51	Van Vliet, Benjamin	186
Tiwari, Hemant	201, 502	Tsui, Kwok-Leung	487	Vance, Eric	249
Tiwari, Ram C	499	Tsybakov, Alexandre	490	Vandal, Alain C	20
Tobias, Randall	161, 300, 433	Tubbs, Jack	154	Vandebroek, Martina	279
Todem, David	332	Tucker-Kellogg, Greg	154	VanDeKerckhove, Wendy	70
Tokdar, Surya	238	Tudor, Gail		Vandenberghe, Lieven	177
Toledano, Alicia		Tuechler, Regina	314	Vandenhende, Francoise	
Tolusso, David		Tukey, Paul		Vannucci, Marina	
Tomita, Yuji		Tung, Yi-Liang		VanSoest, Arthur	
Tompkins, Linda		Tupek, Alan R		Vansteelandt, Stijn	
Tong, Van T		Turek, Joan		Varadhan, Ravi	146, 205
Tong, Xingwei		Turkmen, Asuman		Vartivarian, Sonya	462
Tong, Xingwei		Turnbull, Bruce W	387	Vaughan, David	26
Tootoo, Joshua	32	Turner, John	290	Vaughan, Denton	
Toribio, Sherwin	381	Turner, Nancy D	85	Vaughan, Laura K	502
Torres, Soledad	146	Turner, Ralph	240	Veen, Alejandro	200, 386
Toth, Daniell	114, 343	Tusie-Luna, Teresa	502	Velez, William Y	175
Toto, Ma Criselda S	178	Twiddy, Susan	253	Velilla, Santiago	249
Town, Machell	341	Tyas, Suzanne	154	Velu, Raja	425, 473
Townsend, Mary		Tymofyeyev, Yevgen	280	Vengazhiyil, Roshan	
Tranbarger, Katherine	289	Tzeng, Jung-Ying		Venook, Alan P	457
Tremblay, Marcelle	153	Tzeng, Sheng Li		Verbitsky, Natalya	72
Tremblay, Stephane	477	Uesaka, Hiroyuki	16	Verducci, Joseph S	526
Tremmel, Lothar		Uhde-Stone, Claudia	154	Vergouwe, Yvonne	371
Trietsch, Dan	403	Uno, Hajime	51, 197, 270	Vermeulen, Bart	279
Trimbur, Thomas M	407	Unwin, Antony	86, 267	Vexler, Albert	106
Trindade, David	203	Urbanek, Simon	86, 132, 456	Vidakovic, Brani	7, 496
Tripodis, Georgios	146	Uryniak, Thomas J	379	Vidyashankar, Anand	372
Trofimovich, Lily	152	Utts, Jessica	165, 406, 481	Viens, Frederi	
Trollinger, Kathleen	329	Uusipaikka, Esa I	336	Viet, Susan	259
Trosset, Michael	150, 251	Vaida, Florin	187, 362, 466	Vila, Bryan J	209
Troxel, Andrea B	49	Vakil, Nader	541	Violanti, John M	209
Trumbo, Bruce	294	Vaksman, Zalman	471	Vishnuvajjala, Lakshmi	528

Name	Session	Name	Session	Name	Session
Vrijens, Bernard	489	Wang, Lianming	543	Wang, Zhu	54
Waggoner, Dan	360	Wang, Lie		Ward, Gillian	
Wagner, Carol		Wang, Lifeng	187	Ware, James H	418
Wagner, James	414, 501	Wang, Lin		Warfield, Joseph	338
Wagner, Michael		Wang, Lin		Warnes, Gregory R	
Wahba, Grace		Wang, Ling		Warren, Don R	
Wahed, Abdus S		Wang, Liqun		Warren, John	
Wakefield, Jon		Wang, Lu		Warsavage, Barbara	
Walker, Cindy M		Wang, Mei-Cheng		Wasserman, Larry	
Waller, Lance		Wang, Meihua		Wasserman, Stanley	
Wallet, Bradley		Wang, Naisyin		Wassmer, Gernot	
Wallstrom, Garrick		Wang, Ouhong		Wathen, J. Kyle	
Walsh, Ronald		Wang, Pei		Watnik, Mitchell	
Walter, Stephen		Wang, Qihua		Watrin, Shea	
Walters, Elizabeth		Wang, Qing		Watson, Heather	
Walters, Kimberly		Wang, Rui		Watterberg, Kristi L	
Wan, Shuyan		Wang, Shubing		Wayne, Johnson	
Wan, Wen		Wang, Sijian		Weakliem, David	
Wan, Ying		Wang, Steve		Weathers, Robert	
Wang, Bin		Wang, Steven		Webb, Mandy	
Wang, Chenpin		Wang, Sue-Jane		Weber, Michael	
Wang, Chong		Wang, Suojin		Webster, Jr., Bruce	
Wang, Dong		Wang, Tao		Weems, Kimberly S	
Wang, Haibin		Wang, Terry		Weerahandi, Samaradasa.	
Wang, Haiyan		Wang, Wei-hong		Wefelmeyer, Wolfgang	
Wang, Haonan		Wang, Weiwei		Wegkamp, Marten	
Wang, Hong		Wang, Wenquan		Wegman, Edward28, 6	
Wang, Honggang		Wang, William			84, 402, 492, 535
Wang, Hongwei		Wang, Xiaodong		Wehrenberg, Scott	
Wang, Huei		Wang, Xiaofei		Wei, Guanghui	
Wang, Huixia		Wang, Xiaofeng		Wei, Lai	
Wang, Jane-Ling		Wang, Xiaogang		Wei, Lee-Jen	
Wang, Jianmin		Wang, Xinlei		Wei, Xuelian	
Wang, Jianming		Wang, Yan		Wei, Ying	
Wang, Jianqiang		Wang, Yanping		Weidhaas, Joanne B	
Wang, Jiantian		Wang, Yazhen		Weinberg, Daniel H	
Wang, Jin		Wang, Yi		Weinberg, Jonathan	
Wang, Jing		Wang, Yishi		Weinreb, Chani	
Wang, Jing		Wang, Yuanjia		Weinstein, Joan	
Wang, Julia		Wang, Yue		Weinstein, Rachel B	
Wang, Junhui		Wang, Yuedong		Weir, Paula	
Wang, Ke		Wang, Yuemei		Weiss, Noel	
•		Wang, Yuhang		Weiss, Robert E	
Wang, Kevin Wang, Ko-Kang		Wang, Zailong		Weissfeld, Lisa	
		Wang, Zhen		Welch, Kathleen	
Wang, Lan		1 *		Welch, William J	
Wang, Li		Wang, Zhi		Weldon, Larry	
Wang, Li	2/5	Wang, Zhong Lin	31/	vv ciaori, Larry	270, 700

Name	Session	Name	Session	Name	Session
Wells, Darlene	291	Williams, George	42	Worsley, Keith J	449
Wells, Tara	152	Williams, James	162, 301, 425, 434	Wright, Farroll T	287
Welsh, Alan	376	Williams, Keith	154	Wright, Fred	421
Welty, Leah	5	Williams, Ken	101	Wright, George	459
Wen, Shihua	113	Williams, Lori A	233	Wu, Baolin	143, 196
Wen, Wei	528	Williams, Stephen	513	Wu, Chengqing (Alan).	149, 548
Wen, Xuerong	17	Williams, Todd R	71	Wu, Chien-Fu Jeff	317, 376, 478
Wencheko, Eshetu	404	Williamson, G. David	353	Wu, Chih-Chieh	292
Weng, Qian	201	Willman, Cheryl L	283	Wu, Chunchi	247
Wenger, Neil S	489	Wills, Graham	86, 312	Wu, Chunchi	473
Wessel, Jennifer	332	Wilson, Alyson G	167, 447, 483	Wu, Colin O	39
West, Brady	342, 493	Wilson, Jason	27	Wu, Han-Ming	523
West, Mike		Wilson, Jeffrey R	106	Wu, Hulin	287, 415, 536
West, Webster	132	Wilson, Melanie		Wu, Jeremy	82
Westfall, Peter	527	Wilson, Robert	426	Wu, Jianrong	504, 537
Westveld, Anton	190, 289	Wilson, Susan		Wu, Ke	103
Wetter, David	92	Wing, Steve	343	Wu, Lang	182
Wheaton, Laura		Winglee, Marianne		Wu, Mixia	
Wheeler, David	34	Winkler, William		Wu, Peng	343
Wheeler, William		Wintenberger, Olivier		Wu, Qing	209
White, Gentry		Wistuba, Ignacio		Wu, Richard	
White, Laura		Withum, Tim		Wu, Song	
White, Michael E		Witmer, Jeff		Wu, Tongtong	
Whiteside, Mary		Wittes, Janet		Wu, Wei	
Whitford, David C		Wittkowski, Knut M		Wu, Wei Biao	
Whitmore, George A		Woldie, Mammo		Wu, Xiaodong (Eric)	
Whittinghill, Dexter C		Woldman, Robert		Wu, Xiaoling	
Wickham, Charlotte		Wolfe, Douglas		Wu, Xiaowei	
Wickham, Hadley		Wolfe, Robert		Wu, Yichao	
Wicklin, Frederick		Wolfe, Robert A		Wu, Ying Nian	
Wiegand, Ryan		Wolfson, Christina	46	Wu, Yuefeng	
Wiens, Brian L		Wolfson, David	243	Wu, Yuehui	
Wikle, Christopher K		Wolpert, Robert L	147, 344, 486	Wu, Yujun	
Wilbur, Jayson		Wolter, Kirk		Wu, Yu-te	
Wildermuth, Mary		Wong, Augustive C.M.	228	Wu, Zhou	236
Wildhaber, Mark		Wong, Stephen		Wuebbles, Donald	55
Wildner, Raimund K	279, 513	Wong, Weng-Kee		Wulff, Shaun S	222
Wiley, Alison L	294	Wood, Sally		Wun, Lap-Ming	414
Wileyto, E. Paul		Woodall, William H		Wygant, Steven A	
Wilkinson, Leland		Woodard, Roger		Wyner, Abraham	
Wilkinson, Robert G		Woodcock, Simon		Xi, Bowei	
Wilks, Rainford		Woodruff, Stephen		Xi, Liwen	
Willcox, Bradley		Woodward, Wayne		Xi, Yingmei	
Willett, Adam		Woody, Lesa L		Xi, Yuanxin	
Williams, Basil		Woolson, Robert		Xia, Hong A	
Williams, Brian J		Wooten, Karen		Xiang, Qinfang	
Williams, D. Keith	545	Wooten, Leiko H	220	Xiao, Guanghua	

Name	Session	Name	Session	Name	Session
Xiao, Jihua	422	Yang, Otto	415	Yu, Chong Ho	209
Xiao, Zhijie	398	Yang, Ruoyong	378	Yu, Cindy	146
Xie, Benhuai	283	Yang, Shie-Shien	209	Yu, Fang	497
Xie, Hui	24	Yang, Song		Yu, Kai	335, 380
Xie, Jichun	423	Yang, Wei	150	Yu, Kai Fun	24, 64, 149
Xie, Jun	325	Yang, Xiaowei		Yu, Lei	154
Xie, Lin	343	Yang, Xiting		Yu, Mandi	13, 293
Xie, Ming	112, 200, 507	Yang, Yan	197		83
Xie, Minge	151	Yang, Yijun	286	Yu, Qilu	426
Xie, Tailiang	471	Yang, Yu			189
Xie, Wangang		Yang, Yuhong		•	322
Xie, Xianchao	384	Yang, Zijiang	27	Yu, Tianwei	325
Xie, Yang		Yao, Fang		Yu, Tinghui	107
Xing, Biao		Yao, Weixin		Yu, Yaming	411, 460
Xing, Eric		Yashchin, Emmanuel		-	236
Xing, Guan		Yassouridis, Alexander.	359	Yu, Yongyi	458
Xiong, Chengjie		Yau, C. Lillian	278	Yu, Yue	410
Xiong, Xiaoqin		Ye, Cong			480
Xu, Baowei		Ye, Keying		• •	355, 478
Xu, Haixia		Ye, Wen		- C	317
Xu, Hong		Ye, Yining			470
Xu, Hongquan		Yeap, Beow Yong			232, 501
Xu, Jian-Lun		Yeatman, Timothy		_	416
Xu, Lei		Yeghiazarian, Lilit			334
Xu, Mengyuan		Yeh, Hung-Wen		_	227
Xu, Qiuyan		Yeo, In-Kwon			273, 408
Xu, Ronghui		Yi, Grace Y		•	137
Xu, Xinyi		Yi, Nengjun			197
Xu, Yaomin		Yin, Holly			369
Xu, Zhiheng		Yin, Wen Jun			503
Xue, Lan		Yin, Yin			88, 320
Yakovlev, Andrei		Yip, Andy		•	469
Yamamoto, Seiichiro		Yogendran, Marina		,	21, 435
Yan, Ting		Yoo, Jae Keun		•	139
Yan, Xiaohong		Yoo, Wonsuk			540
Yan, Xin		Yoon, Jungyeon			11
Yan, Zhenyu		Yoshida, Ruriko			462
Yan, Zhiwu		You, Li-Wei			135, 227, 264, 293
Yanagawa, Takashi		Young, C. Alex		·	509
Yanez, David		Young, Jessica G		•	11
Yang, Harry		Young, John			28
Yang, Hongmei		Young, Linda		•	74, 150
Yang, Jun		Young, S. Stanley			51, 481, 525
Yang, Lijian		Younger, Novie			113
Yang, Lili		Yu, Alan			143
Yang, Min		Yu, Bin			472
Yang, Mingan		Yu, Ching-Ray			95, 331, 468
14115, 1411115a11		1 14, Ching-Kay	11/	2011g, 2011gill	

Name	Session	Name	Session	Name	Session
Zeng, Yi	278	Zhang, Xiaoxi	201	Zhou, Harrison	261, 496
Zeng, Yong	472	Zhang, Xichaun (Ma	ark)262	Zhou, Hong	34
Zezas, Andreas	367	Zhang, Xingyou	148	Zhou, Jie	276
Zha, Tao	360	Zhang, Xiuyun	237	Zhou, Jihao	145
Zhai, Chengxiang	63	Zhang, Xu	480	Zhou, Julie	280
Zhan, Xiaojiang	539	Zhang, Yanhua	199	Zhou, Kefei	100, 456
Zhang, Aijun	478	Zhang, Yanqiong	199	Zhou, Kemin	
Zhang, Bin	112, 507	Zhang, Yanwei	332	Zhou, Lifen	
Zhang, Bin	62	Zhang, Yawei	65	Zhou, Mai	
Zhang, Chenhua	67, 339	Zhang, Yi	248	Zhou, Qing	
Zhang, Chunling	86	Zhang, Ying	197	Zhou, Xi	
Zhang, Chunming	229, 322, 417	Zhang, Yiyun	369	Zhou, Xian	
Zhang, Cun-Hui	25, 244, 396, 449	Zhang, Yu	247	Zhou, Xiao-Hua (Andı	
Zhang, Daowen	57, 464	Zhang, Yufen	476	71 77 1 .	504
Zhang, Daozhi	246	Zhang, Yuting	246, 540	Zhou, Xiaolei	
Zhang, Donghui	25, 285	Zhang, Zepu	18, 55, 108, 185	Zhou, Yan	
Zhang, Guangyu	468	Zhang, Zhe	249	Zhou, Zheng	
Zhang, Hao	106	Zhang, Zhen	543	Zhu, Fang	
Zhang, Hao56, 57,	144, 187, 382, 464	Zhang, Zhengjun	136	Zhu, Guangrui	
Zhang, Heping	322, 428, 491	Zhang, Zhigang	505, 517	Zhu, Hongjian	
Zhang, Hongmei		Zhao, Hongyu	81, 85, 110	Zhu, Hongtu	
Zhang, Jenny	154	Zhao, Jing	26, 378	Zhu, Hongxiao	
Zhang, Ji		_	53	Zhu, Ji4, 60, 8	
Zhang, Jian			139	Zhu, Jun	
Zhang, Jing		Zhao, Lirong	160	Zhu, Junjia	
Zhang, Joanne		_	97	Zhu, Lei	
Zhang, Juan	332	Zhao, Peng	446	Zhu, Lei	
Zhang, Lan	485	Zhao, Wei	142, 154	Zhu, Liang	
Zhang, Lanju	109, 470	Zhao, Xin	66	Zhu, Liansheng Zhu, Mu	
Zhang, Lei	473	Zhao, Yichuan	248, 469, 537	Zhu, Wu	
Zhang, Li	326, 387	Zhao, Yifang	497	Zhu, Song-Chun Zhu, Wei	
Zhang, Liang	1	Zhao, Yonggang	281, 378	Zhu, Wenying	
Zhang, Lin	154	Zhao, Yongyun	420	Zhu, Yiliang	
Zhang, Lu		Zhao, Zhen	341, 515	Zhu, Yongfang	
Zhang, Min	64	Zhao, Zhigen	459	Zhu, Tongiang Zhu, Zhengyuan	
Zhang, Peter		Zheng, Gang	39, 327	Zibman, Chava	
Zhang, Qianyi		Zheng, Shuo	197	Zigler, Corwin	
Zhang, Qing		Zheng, Steve	538	Zimmerman, Dale	
Zhang, Shunpu		_	.81, 196, 245, 327, 390	Zitikis, Ricardas	
Zhang, Tingting		_	421	Zotti, Marianne E	
Zhang, Tong			528	Zou, Fei	
Zhang, Tonglin			38	Zou, Guohua	
Zhang, Wei			93	Zou, Hui	
Zhang, Xiang			67	Zou, Kelly H	
Zhang, Xiao			325	Zubovic, Yvonne	
Zhang, Xiaohong		_	458, 530	Zukerberg, Andrew	
Zhang, Xiaohua (Dougla			151, 417	Zurbenko, Igor	

Index of CE Instructors

Name	Session	Name	Session	Name Session
Alonzo, Todd	CE_10C	Harahush, Shawn	CE_35T	Proschan, MichaelCE_23C
Banks, David	CE_18C	Herzog, Thomas	CE_13C	Ramírez, José GCE_36T
Biemer, Paul	CE_04C	Hesterberg, Tim	CE_28C	Rothstein, HannahCE_32T, CE_37T
Borenstein, MichaelCE_	32T, CE_37T	Hofmann, Heike	CE_07C	Sacks, JerryCE_12C
Breidt, Jay	CE_11C	Hogan, Joseph W	CE_24C	Schabenberger, OliverCE_09C
Brown, G. Gordon	CE_30T	Janes, Holly	CE_10C	Scheuren, FritzCE_13C
Burkom, Howard S	CE_18C	Johnson, Dallas	CE_03C	Sinsheimer, JanetCE_25C
Chen, Colin	CE_40T	Lange, Kenneth	CE_25C	Sobel, EricCE_25C
Chuang-Stein, Christy	CE_17C	Lawless, Jerald F	CE_05C	Spiegelhalter, DavidCE_01C, CE_01C
Coffey, Christopher S	CE_14C	Lin, Danyu	CE_27C	Thall, Peter FCE_19C
Cohen, Robert	CE_31T	Loh, Wei-Yin	CE_20C	Ting, NaiteeCE_08C
Cook, Richard J	CE_05C	MacDougall, James	CE_08C	Unwin, AntonyCE_07C
Crimin, Kimberly	CE_06C	Mehta, Cyrus	CE_33T	Urbanek, SimonCE_22C
Daniels, Michael	CE_24C	Molenberghs, Geert	CE_17C	Vanucci, MarinaCE_26C
Dasu, Tamraparni	CE_22C	Olkin, Ingram	CE_21C	Vidakovic, BraniCE_26C
Davis, Charles S	CE_15C	Opsomer, Jean	CE_11C	Vidmar, ThomasCE_06C
Dmitrienko, Alex	CE_17C	Pepe, Margaret	CE_10C	Welch, William JCE_12C
Fitzmaurice, Garrett	CE_02C	Pinheiro, Jose	CE_14C	Westfall, PeterCE_16C
Gaydos, Brenda	CE_14C	Pitts, Angela	CE_30T	Winkler, WilliamCE_13C
Golovnya, MikhailCE_	_29T, CE_34T,	Prabhu, Sharad	CE_36T	Zhong, WeicaiCE_38T
	CE_39T			

Advertising Index

Advertiser	Page	Advertiser	Page	Advertiser Page
Addison-Wesley	215 63 217 169 229 cover 2	Google		SAS 233 SIAM 195 Springer 210, 211 Takeda Pharmaceuticals 173 Thomson Duxbury 185 University of Utah 125 W.H. Freeman Publishers 240 World Scientific Publishing 183





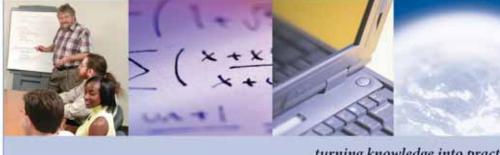
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