GA-Vienna

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.

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

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

Speaker Work Rooms

7:00 a.m.–9:00 p.m. CC-South Foyer

Cyber Center

7:30 a.m.–4:30 p.m. CC-South Foyer

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

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

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.

ASA

Instructor(s): Cyrus Mehta, Cytel Inc.

CC-151 F

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

Wednesday

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

② 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

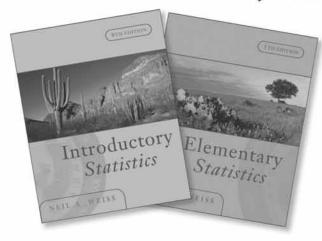
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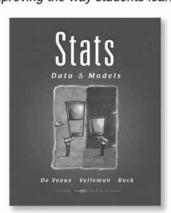
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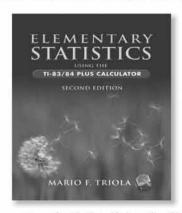


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Applied Session

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

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 Punjabi, Johns Hopkins Bayview Medical Center

9:00 a.m. 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

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

9:50 a.m.

9:50 a.m. Projection Minimum Distance: An Estimator for

Dynamic Models— Oscar Jorda, University of

California, Davis

10:15 a.m. Floor Discussion

Models— Florin Vaida, University of

Conditional AIC for Nonlinear Mixed Effects

California, San Diego

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

Calculating the Effect of a Randomized Intervention 9:00 a.m. 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

Bayesian Modeling of Longitudinal Processes with 9:50 a.m. 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

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

Panelists: Rebecca Doerge, Purdue University

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

Panelists: David Binder, Statistics Canada (Retired)

Cynthia Clark, Office for National Statistics

Frederick Conrad, University of Michigan

 Carol C. House, National Agricultural Statistics Service

Floor Discussion 10:15 a.m.

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

Panelists: ❖ Jerome P. Reiter, Duke University

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-Smithsonian Center for Astrophysics

9:15 a.m. Upper Limits for Source Detection in the Three-

Poisson Model— Paul Baines, Harvard University

9:35 a.m. A Statistical Approach to Stellar Archaeology—

Hyunsook Lee, Harvard-Smithsonian Center

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;

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

Floor Discussion 10:15 a.m.

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

8:55 a.m. Nonlinear Blending: An Alternative to Dosewise Additivity, the Interaction Index, and Bliss Independence—John Peterson, GlaxoSmithKline; Steven J. Novick, GlaxoSmithKline

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

C	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.	bh 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
7.13 a.m.	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 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; Pavlina 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

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 → Applied Session → Presenter	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	- , , , , , , , , , , , , , , , , , , ,
♠ ♠ Advai	nces in Some Classic Tests of	9:35 a.m.	Bayesian Hierarchical Models for Detecting Safety
			Signals in Clinical Trials—& Hong A. Xia, Amgen
Biometrics Se	es—Contributed ction	0.50	Inc.; Haijun Ma, Amgen Inc.
Organizer(s)	Gengsheng Qin, Georgia State University	9:50 a.m.	Controlled Bayesian Optimal Designs for Dose-
8:35 a.m.	Likelihood Ratio Tests of Correlated Multivariate Samples—& Erning Li, Texas A&M University; Johan Lim, Texas A&M University		Response Studies— Wei Zhu, State 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	40.05	
0.50 d.m.	Partitioning Analysis of Multivariate Quantitative	10:05 a.m.	A Bayesian Approach to Utilizing Prior Data in
	Structure Activity Data— Yujun Wu, University		New Drug Development—❖ Todd Coffey, Amylin
	• •		Pharmaceuticals, Inc.; Larry Z. Shen, Amylin
	of Medicine and Dentistry of New Jersey; Marc		Pharmaceuticals, Inc.; Wei Deng, Amylin
	Genton, University of Geneva; Leonard A.		Pharmaceuticals, Inc.
	Stefanski, North Carolina State University		
9:05 a.m.	On Identifying Minimum Efficacious Doses in	379	CC-355 F
9:05 a.m.	Combination Drug Trials—*Julia Soulakova,	379 Linear Mo	CC-355 F
9:05 a.m.	Combination Drug Trials— * Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson,	Linear Mo	odels in Clinical Trials—Contributed
9:05 a.m.	Combination Drug Trials—*Julia Soulakova,	Linear Mo Biopharmaceu	odels in Clinical Trials—Contributed utical Section
9:05 a.m. 9:20 a.m.	Combination Drug Trials— * Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson,	Linear Mo Biopharmaceu	odels in Clinical Trials—Contributed utical Section mas J. Uryniak, AstraZeneca
9:20 a.m.	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University	Linear Mo Biopharmaceu	odels in Clinical Trials—Contributed utical Section umas J. Uryniak, AstraZeneca Inverse Prediction: A Clinical Application—
	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, University of Pittsburgh Weighted Distance Measures for Metabolomic Data—* Philip Dixon, Iowa State University A Combined Test for the Equality of Means—	Linear Mo Biopharmacet Chair(s): Tho 8:35 a.m.	odels in Clinical Trials—Contributed utical Section umas J. Uryniak, AstraZeneca Inverse Prediction: A Clinical Application— *Jayawant Mandrekar, Mayo Clinic
9:20 a.m.	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, 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	Linear Mo Biopharmaceu Chair(s): Tho	Inverse Prediction: A Clinical Application— * Jayawant Mandrekar, Mayo Clinic An Approach to Obtaining Initial Values for the
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9:20 a.m. 9:35 a.m. 9:50 a.m.	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, 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	Linear Mo Biopharmacet 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
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9:20 a.m. 9:35 a.m. 9:50 a.m. 10:05 a.m. 378	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, 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 tical Section an Portugal, Wyeth A Revisit to Sample Size Computation— * Ruoyong Yang, Pfizer Inc. Joint Exploration of Haplotype Information and	Einear Mc Biopharmacet Chair(s): Tho 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 Modeling Covariance Structure in Unbalanced Longitudinal Data—* Min Chen, Texas A&M
9:20 a.m. 9:35 a.m. 9:50 a.m. 10:05 a.m. 378	Combination Drug Trials—* Julia Soulakova, University of Nebraska-Lincoln; Allan Sampson, 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 attical Section an Portugal, Wyeth A Revisit to Sample Size Computation— * Ruoyong Yang, Pfizer Inc.	Einear Mc Biopharmacet Chair(s): Tho 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 Modeling Covariance Structure in Unbalanced

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

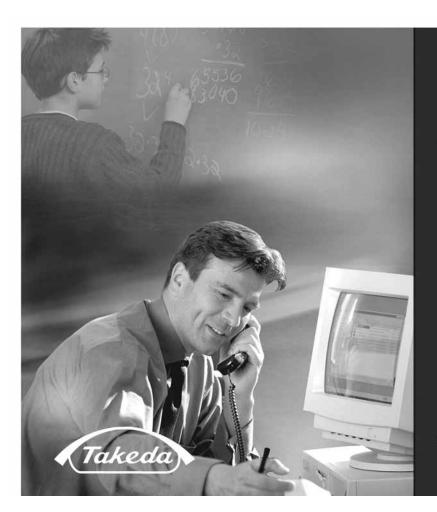
Find Feasible Regions of a Desirability Function— ❖ Wen Wan, Virginia Polytechnic Institute and State University; Jeffrey B. Birch, Virginia

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 0 00	• • •
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
000			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

GA-The Grand America Hotel

•	Applied Session Tresenter	CC-Sait I alace (Gorivention Center Grand America Hotel
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. 9:50 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 Modeling a Cross-Sectional Response Variable
9:20 a.m. 9:35 a.m.	A Spatial-Temporal Point Process Model for Nowcasting Radar Reflectivities—*Yong Song, University of Missouri-Columbia; Christopher K. Wikle, University of Missouri-Columbia Identification of Pollution Source Directions via	9.50 d.III.	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.
	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 of California, Los Angeles; Alejandro Veen, IBM		Cornell University; Yrjö T. Gröhn, Cornell University; Søren S. Nielsen, The Royal Veterinary and Agricultural University
	T.J. Watson Research Center	388	CC-155 E
10:05 a.m.	An Application of Voronoi Diagrams to Modeling Earthquake Catalogs—& Christopher Barr,	Contribut	
	University of California, Los Angeles; Frederic		rvey Research Methods
	Paik Schoenberg, University of California, Los		ael Flores Cervantes, Westat
	Angeles	8:35 a.m.	Strategic Directions for the 2011 Canadian Census of Population—❖ David Dolson, Statistics Canada; Normand Laniel, Statistics Canada
Epidemiol	CC-250 D in Methods and Applications in ogy—Contributed	8:50 a.m.	Alternative Allocation Designs for a Highly Stratified Establishment Survey— & Ernest Lawley, Bureau of Labor Statistics
Health Science	Itistics in Epidemiology, Section on Teaching Statistics in the es, Section on Health Policy Statistics Cai, University of South Carolina	9:05 a.m.	Sampling with Uncertain Frame Counts: Challenges in Sampling Head Start Children
8:35 a.m.	HIV Dynamics and Natural History Studies: Joint Modeling with Interval-Censored Event Times		for the FACES Study— & Barbara L. Carlson, Mathematica Policy Research, Inc.
	and Sparse Longitudinal Data—&Li Su, Brown University; Joseph W. Hogan, Brown University	9:20 a.m.	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,	9:35 a.m.	Shimizu, National Center for Health Statistics Sample Design of the Canadian Health Measures
	University of Pennsylvania; Amita K. Manatunga, Emory University; Kirk Easley, Emory University	9:50 a.m.	Survey— Sarah M. Dion, Statistics Canada Sampling and Estimation Issues in the Redesign of the Canadian Survey of Household Spending—
9:05 a.m.	Family-Based Case-Control Studies—*Li Zhang, The Cleveland Clinic; Bhramar Mukherjee, University of Michigan	10:05 a.m.	*Christian Nadeau, Statistics Canada Sample Redesign for the FDIC's Asset Valuation Review—*David W. Chapman, Federal Deposit
9:20 a.m.	Association Test Using Pedigree and Multilocus Data with Missing Genotypes and Population Structure—* Jie Ding, The Ohio State		Insurance Corporation



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Applied Session

Presenter

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GA-The Grand America Hotel

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**

Biopharmaceutical Section, WNAR

Organizer(s): Xiaohua (Douglas) Zhang, Merck & Co., Inc.

Chair(s): Xiaodong (Eric) Wu, Johnson & Johnson PRD

10:35 a.m. High Throughput Screening (HTS) for Lead and 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, Glaxo Smith
Kline

11:25 a.m. Simple Statistical Parameters but Quick Solutions

in High-Throughput Screening Assays— *Xiaohua

(Douglas) Zhang, Merck & Co., Inc.

11:50 a.m. Applications of RNAi High-Throughput Screening

in Drug Discovery— Amy S. Espeseth, Merck &

Co., Inc.

12:15 p.m. Floor Discussion

393 CC-355 D

● ❖ 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

11:15 a.m. Accurately Measuring a Creative Economy—

*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

CC-355 E

● **②** 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

11:20 a.m. **Nonparametric Hierarchical Models**— * Ciprian M. Crainiceanu, The Johns Hopkins University

12:05 p.m. Floor Discussion

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

11:35 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

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

General Program Schedule 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

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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

11:15 a.m. Are Volatility Estimators Robust with Respect to
Modeling Assumptions?—*Yingying Li, The

University of Chicago; Per A. Mykland, The

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

409

CC-255 C

State University; Mary Putt, University of

Pennsylvania

11:55 a.m. Disc: Vernon Chinchilli, The Pennsylvania State

University

12:15 p.m. Floor Discussion

Topic-Contributed Biopharmaceutical Section, WNAR, Section on Statistical Consulting, ENAR

Topics in Crossover Trial Design and Analysis—

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

410 CC-250 EF

 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

> > Joint Statistical Meetings 2007

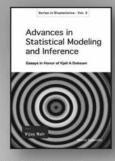
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	Themed	Session
_	HIGHIOG	00001011

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 of America; Peter T. Gallagher, Trinity College

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

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—

 \clubsuit 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

CC-Salt Palace Convention Center

GA-The Grand America Hotel

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

● **②** 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

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

11:35 a.m. Gene-Gene and Gene-Environment Interactions for Complex Traits— Oinvi Cheng, New York University; Mengling Liu, New York University; Yongzhao Shao, New York University

11:50 a.m. Characterization of Transcriptomes by Application of Reliability Analysis in Structural Genomics-Fisseha Abebe, Clark Atlanta University; William Seffens, Clark Atlanta 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

A Semiparametric Empirical Likelihood Method for 10:50 a.m. **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

A Novel Wavelet Approach for Denoising Mass 11:05 a.m. 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

Semiparametric Two-Sample Changepoint 11:35 a.m. **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.

A Hybridized Two-Stage Design in an Ulcerative 10:35 a.m. 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.

Self-Designing Multiple Dose Study via Adaptive 11:05 a.m. 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.

CC-255 D 419

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 F	Program Schedule
٥	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
	on Risk Analysis 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

GA-The Grand America Hotel

421 CC-250 B

Bayesian Applications in Genomics— Contributed

Section on Bayesian Statistical Science

CC-Salt Palace Convention Center

Chair(s): Faming Liang, Texas A&M University

Public Health

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.

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

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 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

11:35 a.m.

11:50 a.m.

Composite Likelihood Ratio Statistic— * Zi Jin,

Preferred Distribution Function for Estimating

Toronto

View A&M University

11:20 a.m.

University of Toronto; Nancy Reid, University of

P(Y < X)—❖ Mohammed A. Shayib, Prairie View A&M University; Aliakbar Haghighi, Prairie

Unveiling Significant Patterns in High-Speed

Columbia University

Floor Discussion

Networks—* Jin Cao, Bell Labs; Tian Bu, Bell Labs; Aiyou Chen, Alcatel-Lucent; Patrick Lee,

Applied Session

Presenter

CC-Salt Palace Convention Center

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425 CC-250 D
Modeling and Evaluating Customer Rehavior—

Modeling and Evaluating Customer Behavior— Contributed

Section 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**—

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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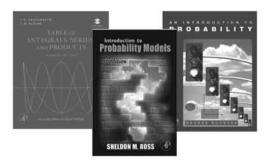






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Themed	Session

Applied Session

Presenter

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11:35 a.m. **Investigation of Empirical Bayesian Confidence** Intervals for Expenditure Data in the Medical Expenditure Panel Survey— Robert Baskin, Agency for Healthcare Research and Quality;

Malay Ghosh, University of Florida

11:50 a.m. Tailoring Survey Data Products and Reliability Criteria To Best Match Customers' Revenue

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

CC-155 E 428

Analysis and Disclosure of Survey Data— Contributed

Section on Survey Research Methods

Chair(s): Karol Krotki, RTI International

Multiyear Estimation for a Single Stratum from 10:35 a.m.

> the Continuous National Health and Nutrition Examination Survey (NHANES)— R. Lee Harding, Westat; Jay Clark, Westat; Jill M.

Montaquila, Westat

The Effectiveness of Stepwise Discriminate 10:50 a.m.

> Analysis as a Post Hoc Procedure to a Significant Manova— Erik Heiny, Western Carolina

University

Researcher Access to Microdata: Measuring the 11:05 a.m.

Impact of Different Access Protocols on Data

Utility— Stephanie Shipp, National Institute of Standards and Technology; Julia Lane, NORC at

the University of Chicago

Measuring Privacy Loss Due to Data Release: A 11:20 a.m.

New Perspective—* Lei Liu, Yale University;

Heping Zhang, Yale University

The Use of Propensity Score Matching Methods 11:35 a.m.

in Mixed Mode Studies— * John Bremer, Harris Interactive: Kerri Miller, Harris Interactive

Practical Considerations in Applying the pq-Rule

11:50 a.m. for Primary Disclosure Suppressions— Meghan

O'Malley, Bureau of Labor Statistics; Lawrence

Ernst, Bureau of Labor Statistics

12:05 p.m. Floor Discussion

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 WL14 Bureau

WL15 Statistical Analysis of Large Panels of Economic Data— Serena Ng, University of Michigan

Section on Bayesian Statistical Science Roundtable with Lunch (fee event)

Section on Bayesian Statistical Science

Organizer(s): David van Dyk, University of California, Irvine

WL16 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.

WL17 Verifying Computer Experiments with Physical 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

WL21 Recognizing and Resolving Breakdowns in Your Consulting 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

WL22 User-Friendly Jargon for Statistics—*Larry Weldon, Simon Fraser University

Statistics and Research Design: Oil and Vinegar?—

*Seth Hirshorn, University of Michigan-Dearborn

WL24 Academic Integrity in a High-Tech Classroom—❖ John 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

WL25 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

WL26 Text Data Mining for Defense Applications—* Jeffrey 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

WL27 Longitudinal Causal Modeling—* James Robins, Harvard School of Public Health

440

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

WL29 Media Coverage Regarding Data on Mortality in Iraq—
*Leslie Roberts, Columbia Mailman School of Public Health; Gilbert Burnham, The Johns Hopkins University; Shannon Doocy, The Johns Hopkins University

Applied Session

Presenter

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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

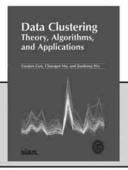
Grouped and Hierarchical Model Selection through

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**

3:05 p.m.



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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—

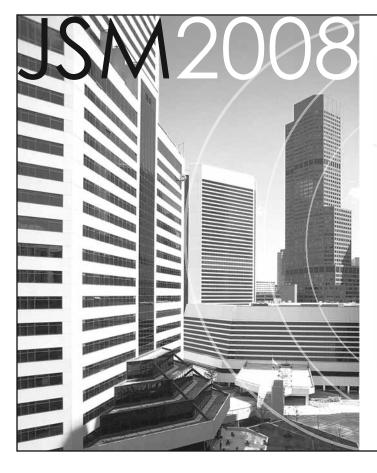
Jane-Ling Wang, University of California,

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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CC-150 G 454

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**

2:30 p.m. Exploring Partial Order of European Countries— ♦ Paola Annoni, University of Milan; Rainer Bruggemann, Leibniz Institute of Freshwater Ecology and Inland Fisheries

Unmasking Weight Camouflage of a Composite 2:55 p.m. 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

Floor Discussion 3:40 p.m.

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

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

Sample Matching for Web Surveys: Theory 2:55 p.m. and Application— Douglas Rivers, Stanford

University

3:20 p.m. Disc: Robert Santos, The Urban Institute 3:30 p.m. Disc: John Bremer, Harris Interactive

Floor Discussion 3:40 p.m.

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**

Using Graphics To Discover and Explore—❖ Julia 2:30 p.m. 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

CC-355 D 457

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

CC-Salt Palace Convention Center

GA-The Grand America Hotel

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

3:45 p.m. Floor Discussion

458 CC-250 D

● ② Noninferiority Trial Designs in Medical Devices—Topic-Contributed

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-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 Stainer
	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. Tion 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 at Chapel Hill; Sung Duk Kim, University of	Organizer(s): R. Todd Ogden, Columbia University
		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 [with Maximum Cross-Correlation Statistics— * Kinfemichael Gedif, Southern Methodist
☼ Reducing Disclosure Risk Through Statistical Methods and Administrative Procedures—Topic- Contributed		University; William R. Schucany, Southern Methodist University; Richard Gunst, Southern Methodist University; Wayne Woodward,
Section on Government Statistics, Section on Health Policy Statistics, Social Statistics Section		Southern Methodist University; Jeffrey Spence, The University of Texas Southwestern
Organizer(s): Alvan Zarate, National Center for Health Statistics		Medical Center at Dallas; Patrick Carmack,
Chair(s): Alvan 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, Los Angeles

3:45 p.m. Floor Discussion

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.	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 CC-355 A • • • Recent Advance in Analysis of Incomplete Data—Contributed		
3:05 p.m.	Numeric EM for Linear and Nonlinear Mixed	Biometrics Section Chair(s): Xiaofei Wang, Duke University		
	Effects Models with Censored Responses—*Lin Liu, University of California, San Diego; Florin Vaida, University of California, San Diego	2:05 p.m.	Examining Benefits and Drawbacks of Multiple Imputation for Disease Rate and Demographic	
3:25 p.m.	Disc: William G. Cumberland, University of California, Los Angeles		Data—*Irene Helenowski, Northwestern University; Hakan Demirtas, University of	
3:45 p.m.	Floor Discussion		Illinois at Chicago; Chiang-Ching Huang, Northwestern University	
Contribut Section on Ba	CC-255 A an Approaches to Clinical Trials—Topic- ed 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): Peto Cancer Cent 2:05 p.m.	Monitoring Late Onset Toxicities in Phase I Trials	2:35 p.m.	Variable Selection with Missing Data in Survival Analysis—* Kun Liang, Iowa State University; Michael D. Larsen, Iowa State University; Terry	
2:25 p.m.	Using Predicted Risks—& Benjamin N. Bekele, The University of Texas M. D. Anderson Cancer Center Decision Analysis in Support of Clinical Trial Protocol Decisions—& Joseph Kahn, Novartis	2:50 p.m.	M. Therneau, Mayo Clinic 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; Biskeyd Blakes Legisland Comparative of Pittsburgh;	
2:45 p.m.	Pharmaceuticals Could Bayesians and Frequentists Agree When Designing Clinical Trials?—*Lurdes Inoue,		Richard Blakesley, University of Pittsburgh; Meredith Lotz, University of Pittsburgh; George C. Tseng, University of Pittsburgh	
3:05 p.m.	University of Washington 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	3:05 p.m.	Interval Estimation for the Difference in Median 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	

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

CC-251 C 2:35 p.m. A Mathematical Comparison of a Randomized 469 Withdrawal Clinical Trial Design and a Parallel Survival Data Analysis I—Contributed **Groups Design To Demonstrate Disease Biometrics Section** Modification—❖ Suzanne Hendrix, Myriad Chair(s): Joanna H. Shih, National Cancer Institute Pharmaceuticals; Scott Horton, Myriad 2:05 p.m. Correlating Large-Scale Biological Data with Pharmaceuticals; Alexander Gutin, Myriad Censored Survival Data— * Karthik Devarajan, Pharmaceuticals Fox Chase Cancer Center 2:50 p.m. **Futility Assessment with Two Correlated Empirical Likelihood-Based Inference for the** 2:20 p.m. Endpoints—❖ Meehyung Cho, sanofi-aventis; Bill Calibration Regression Model with Medical Stager, sanofi-aventis Cost— * Yichuan Zhao, Georgia State University 3:05 p.m. Reporting Quality-of-Life Results Using Percent 2:35 p.m. Martingale Residuals for Nested Case-Control Change from Baseline Analysis—❖ Jen-Fue Maa, Data— Ornulf Borgan, University of Oslo; Bristol-Myers Squibb Company; Kao-Tai Tsai, Bryan Langholz, University of Southern Bristol-Myers Squibb Company; Daniel Seekins, California Bristol-Myers Squibb Company; Rozina Khanna, Power of Nonparametric Logrank and Wilcoxon 2:50 p.m. Bristol-Myers Squibb Company Tests with Adjustment for Covariates: A Simulation 3:20 p.m. Distributional Approach for Measure of Study— & Honghua Jiang, Eli Lilly and Company; Agreement— * Weishi Yuan, U.S. Food and Drug James Symanowski, Nevada Cancer Institute; Administration; Tie-Hua Ng, U.S. Food and Sofia Paul, Novartis Pharmaceuticals; Yongming **Drug Administration** Qu, Eli Lilly and Company; Anothy Zagar, Eli 3:35 p.m. Test Homogeneity of Risk Difference Across Lilly and Company; Shengyan Hong, Eli Lilly Subgroups in Clinical Trials— Lanju Zhang, and Company MedImmune, Inc.; Harry Yang, MedImmune, Inc. The Cost of Checking Proportional Hazards— 3:05 p.m. Bryan Shepherd, Vanderbilt University 471 CC-250 EF 3:20 p.m. Nonparametric Estimation of State Occupation, Application of Innovative Analysis in Clinical Entry, and Exit Times with Current Status Data— Trials—Contributed Ling Lan, University of Louisville; Somnath Datta, University of Louisville Biopharmaceutical Section Chair(s): Mandy Bergquist, GlaxoSmithKline 3:35 p.m. Assessing Fit in Cure-Mixture Models—& E. Paul Wileyto, University of Pennsylvania; Daniel F. 2:05 p.m. Using Latent Sleepiness To Evaluate an Important Heitjan, University of Pennsylvania Side Effect of Promethazine— Alan Feiveson, National Aeronautics and Space Administration; Matthew Hayat, National Aeronautics and Space 470 CC-355 C Administration; Zalman Vaksman, Wyeth; Statistical Issues in Analyzing Clinical Trials Lakshmi Putcha, National Aeronautics and Data—Contributed Space Administration; Jason L. Boyd, National Biopharmaceutical Section Aeronautics and Space Administration Chair(s): Yuehui Wu, GlaxoSmithKline 2:20 p.m. The Entropy Correlation Coefficient and Its 2:05 p.m. Analysis of Cumulative Distribution of Responders Application to Clinical Data Analysis—❖ Ronald in Clinical Trials— Manuela Buzoianu, Johnson Pearson, ProSanos Corporation; Jaakko Astola, & Johnson PRD; Akiko Okamoto, Johnson Tampere University of Technology & Johnson PRD; Surya Mohanty, Johnson & 2:35 p.m. Propensity Score Application in Historically Johnson PRD; Yi-Wen Ma, Johnson & Johnson Controlled Clinical Trials— Daniel Reyner, **PRD** Zimmer, Inc

2:50 p.m.

2:20 p.m.

Binary Clinical Trials Data Analysis Using

University of California, Los Angeles

Pairwise Likelihood— * Juanmei Liu, University

of California, Los Angeles; Peter M. Bentler,

Improving the Delta Method— Paul Duty,

Montgomery College; Nancy Flournoy,

University of Missouri-Columbia

6	↑ Themed Session	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	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 Iglas 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
	a	4 - 4	
2:35 p.m.	Statistical Analysis for Financial Ultra-High Frequency Data: A Filtering Approach—& Yong Zeng, University of Missouri-Kansas City	•	CC-255 C ression and Forecasting—Contributed
·	Frequency Data: A Filtering Approach— Vong Zeng, University of Missouri-Kansas City		ression and Forecasting—Contributed Economics Statistics Section
2:35 p.m. 2:50 p.m.	Frequency Data: A Filtering Approach—& Yong		ession and Forecasting—Contributed
·	Frequency Data: A Filtering Approach—& Yong 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—	● ❖ Regr Business and Chair(s): Kin 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
2:50 p.m. 3:05 p.m.	Frequency Data: A Filtering Approach—& Yong 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	● ☆ Regr Business and Chair(s): Kin	Tession and Forecasting—Contributed 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, National Cheng Kung University; Jevons Lee, Zhejiang University; Li-Wei You, National
2:50 p.m.	Frequency Data: A Filtering Approach—* Yong 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	● ❖ Regr Business and Chair(s): Kin 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—
2:50 p.m. 3:05 p.m.	Frequency Data: A Filtering Approach—& Yong 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): Kin. 2:05 p.m.	Tession and Forecasting—Contributed 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, 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
2:50 p.m. 3:05 p.m. 3:20 p.m.	Frequency Data: A Filtering Approach—& Yong 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): Kira 2:05 p.m. 2:20 p.m.	Tession and Forecasting—Contributed 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, 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—
2:50 p.m. 3:05 p.m. 3:20 p.m. 3:35 p.m. 473 • Investines and	Frequency Data: A Filtering Approach— Yong 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): Kira 2:05 p.m. 2:20 p.m.	Tession and Forecasting—Contributed 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, 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
2:50 p.m. 3:05 p.m. 3:20 p.m. 3:35 p.m. 473 • Investines and	Frequency Data: A Filtering Approach— Yong 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	● © Regr Business and <i>Chair(s): Kin</i> 2:05 p.m. 2:20 p.m. 2:35 p.m.	Tession and Forecasting—Contributed Economics 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, 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
Themed Session	CC-Salt Palace	Convention Center GA-The Grand America Hotel
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
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
CC-254 A		
and Gibbs Sampling—Contributed	477	CC-251 E
. •		ods for Administrative and National
tland Leman, Duke University		ata—Contributed
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
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
Markovian Dynamics in a RAM with Applications to Classification— & Zach Dietz, Tulane University		*William Pollard, Centers for Disease Control
Goodness-of-Fit Tests for Generalized Linear	0.00	and Prevention
Lei Jin, Texas A&M University; Suojin Wang,	2:20 p.m.	Statistical Modeling of Longitudinal Mental Distress Among Rural Seniors Who Participated in the National Population Health Survey—
Floor Discussion		Chandima Karunanayake, University of Saskatchewan; Punam Pahwa, University of Saskatchewan
CC-255 D	2:35 p.m.	Statistical Methods for Constructing Canadian
	p	Growth Curves— Stephane Tremblay, Statistics Canada
yesian Statistical Science	2:50 p.m.	Evaluation of New Programs in State Medicaid
an Dai, University of Missouri-Columbia		Agencies — ❖ Mark Carpenter, Auburn University
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
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;
Bayesian Spatial Models with Repeated Measurements—*Xiaoqian Sun, Clemson	3:20 p.m.	Souradet Shaw, University of Manitoba The Minimum Level of Sensitivity and Predictive
University	•	Value Positive in the Evaluation of Health
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.		Tracy Nguyen-Oghalai, The University of Texas Medical Branch
Genand, Duke University		
	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 Measuring Liquidity Costs in Agricultural Futures Markets: Conventional and Bayesian Approaches—& Julieta Frank, University of Illinois at Urbana-Champaign; Philip Garcia, University of Illinois at Urbana-Champaign Philip Garcia, University of Illinois at Urbana-Champaign CC-254 A and Gibbs Sampling—Contributed **tland Leman, Duke University** Using Subsampling in Markov Chain Monte Carlo—& James Flegal, The University of Minnesota Gibbs Sampling for Bayesian Models—& Alicia Johnson, The University of Minnesota Markovian Dynamics in a RAM with Applications to Classification—& Zach Dietz, Tulane University Goodness-of-Fit Tests for Generalized Linear Models When Some Covariates Are Missing— & Lei Jin, Texas A&M University; Suojin Wang, Texas A&M University Floor Discussion CC-255 D Evelopments in Spatial Modeling— ed Point Estimates for Variance-Structure Parameters in Bayesian Analysis of Hierarchical Models—& Yi He, sanofi-aventis; James S. Hodges, The University of Minnesota Smoothed ANOVA with Spatial Effects as a Competitor to MCAR—& Yufen Zhang, The University of Minnesota; Hodges S. James, The University of Minnesota; Hodges S. James, The University of Minnesota Bayesian Spatial Models with Repeated Measurements—& Xiaoqian Sun, Clemson University Loglinear Modeling for Point-Referenced Spatial Data—& Eric Tassone, Duke University; Marie	Multiple Imputation of Right-Censored Wages in the German IAB-Employment Register Considering Heteroscedasticity—❖ Thomas Buettner, Institute for Employment Research Raessler, Institute for Employment Research Raessler, Institute for Employment Research Measuring Liquidity Costs in Agricultural Futures Markets: Conventional and Bayesian Approaches—❖ Julieta Frank, University of Illinois at Urbana-Champaign; Philip Garcia, University of Illinois at Urbana-Champaign CCC-254 A and Gibbs Sampling—Contributed 477

	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 Nonparametric		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.	Nonresponse in Surveys of the College Educated Revisited—* Patrick Flanagan, U.S. Census Bureau; Nancy Dexter, U.S. Census Bureau
2:20 p.m.	California, Los Angeles An Efficient Sequential Design Method for Detecting Money Laundering—* Xinwei Deng,	2:50 p.m.	Nonresponse in the Survey of Industrial Research and Development— Perez Adriana, The University of Texas at Houston Health Science Center
	Georgia Institute of Technology; Roshan Joseph, Georgia Institute of Technology; Agus Sudjianto, Bank of America; Chien-Fu Jeff Wu, Georgia Institute of Technology	3:05 p.m.	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.	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—*Yi 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	Epidemiological Studies—Contributed Section on Statistics in Epidemiology Chair(s): Jayawant Mandrekar, Mayo Clinic	
Nonsamp	CC-250 B nsating for Survey Nonresponse and ling Error—Contributed rvey Research Methods	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

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

2:20 p.m. Semiparametric Methods for Estimating Cumulative Treatment Effects—
\$\text{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,

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

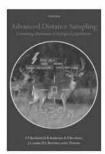
4:20 p.m. R. A. Fisher, Randomization, and Current Practice in Multicenter Clinical Trials— Marvin Zelen, Harvard School of Public Health

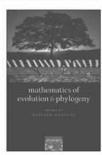
Floor Discussion 5:30 p.m.



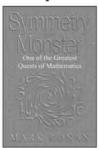
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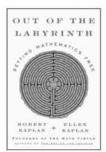
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