

THURSDAY, AUGUST 10

Tours

1:00 p.m.–5:00 p.m. CC-Convention Place
TR10 - Northwest Winery Tour (fee event)

1:00 p.m.–5:00 p.m. CC-Convention Place
TR11 - Glassblowing Tour (fee event)

Committee/Business Meetings & Other Activities

7:00 a.m.–8:30 a.m. CC-305
Howard Levene Memorial Breakfast Reception (closed)
Organizer(s): Zhiliang Ying, Columbia University

7:00 a.m.–10:30 a.m. CC-507, CC-508
Speaker Work Rooms

7:00 a.m.–10:30 a.m. CC-Level 4 South Lobby
Cyber Center

7:30 a.m.–10:30 a.m. CC-Level 4 South Lobby
**JSM Main Registration
 ASA Membership/Special Assistance Desk**

8:00 a.m.–10:00 a.m. CC-306
Council of Sections Response Meeting (closed)
Chair(s): John E. Boyer, Kansas State University

8:00 a.m.–10:30 a.m. CC-Level 4 South Lobby
ASA Marketplace

9:00 a.m.–5:00 p.m. CC-Level 1
Citywide Concierge Center

10:00 a.m.–11:30 a.m. CC-306
Council of Sections Governing Board Debriefing Meeting (closed)
Chair(s): John E. Boyer, Kansas State University

Invited Sessions 8:30 a.m.–10:20 a.m.

483 **CC-603**
● Collaborative Research in Statistics—Invited

General Methodology, Section on Physical and Engineering Sciences
Organizer(s): Bonnie K. Ray, IBM T. J. Watson Research Center
Chair(s): Bonnie K. Ray, IBM T. J. Watson Research Center

8:35 a.m. Sensor Analytics: Radioactive Gas Quantity Estimation and Error Propagation—✦ Dale N. Anderson, Pacific Northwest National Laboratory; Justin I. McIntyre, Pacific Northwest National Laboratory; Deborah K. Carlson, Pacific Northwest National Laboratory; Reynold Suarez, Pacific Northwest National Laboratory; James C. Hayes, Pacific Northwest National Laboratory

9:00 a.m. Using Informative Bayesian Priors in a Sales Forecasting System—✦ Phillip M. Yelland, Sun Microsystems Laboratories

9:25 a.m. Formulation Prediction for Derivative Product Development—✦ Martha Gardner, GE Global Research

9:50 a.m. Disc: Sarah Michalak, Los Alamos National Laboratory

10:10 a.m. Floor Discussion

484 **CC-3A**
⊕ Statistical Methodology for Environmental Applications—Invited

International Indian Statistical Association
Organizer(s): Soumendra N. Lahiri, Iowa State University
Chair(s): Soumendra N. Lahiri, Iowa State University

8:35 a.m. Bayesian Melding: an Application and Critical Assessment—✦ James Zidek, The University of British Columbia; Zhong Liu, The University of British Columbia; Nhu Le, BC Cancer Agency/University of British Columbia

9:00 a.m. Fixed Rank Kriging for Massive Datasets—✦ Noel Cressie, The Ohio State University; Gardar Johannesson, Lawrence Livermore National Laboratory

9:25 a.m. Minimum Distance Inference in Unilateral Autoregressive Lattice Processes—✦ Marc G. Genton, Texas A&M University; Hira L. Koul, Michigan State University

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

9:50 a.m. **Computation and Modeling for Large Space-Time Environmental Datasets**—◆ Michael L. Stein, The University of Chicago

10:15 a.m. Floor Discussion

485 CC-3B **Statistical Genetics and Nonparametric Methods: in Memory of Howard Levene—Invited**

Memorial, Section on Nonparametric Statistics

Organizer(s): Zhiliang Ying, Columbia University

Chair(s): Todd Durham, Inspire Pharmaceuticals, Inc.

8:35 a.m. **The Influence of Professor Levene's Test of the Equality of the Variances of k Groups on the Development of Robust Procedures and Their Application**—◆ Joseph Gastwirth, The George Washington University

9:00 a.m. **The Influence of Levene's Paper on Polymorphism in Subdivided Populations**—◆ Edward Pollak, Iowa State University

9:25 a.m. **Howard Levene: Statistician, Educator, Colleague, and Friend**—◆ Theodore W. Anderson, Stanford University

9:50 a.m. **Testing Multivariate Scale Difference by Depth Rank Tests**—◆ Regina Liu, Rutgers University; Kesar Singh, Rutgers University

10:15 a.m. Floor Discussion

486 CC-612 **● Experimental Design for Nonlinear Modeling—Invited**

Biopharmaceutical Section

Organizer(s): Thomas E. Bradstreet, Merck Research Laboratories

Chair(s): Thomas E. Bradstreet, Merck Research Laboratories

8:35 a.m. **Curvature, Robustness, and Optimal Design in Applied Nonlinear Regression Modeling**—◆ Timothy E. O'Brien, Loyola University Chicago

9:00 a.m. **Locally D-Optimal Designs Based on Models Combining Emax and One-Compartment Models**—◆ Sam Hedayat, University of Illinois at Chicago

9:25 a.m. **Optimal Designs in Nonlinear Mixed-Effects Models: Applications for Population Pharmacokinetics/Pharmacodynamics Studies**—◆ Sylvie Retout, INSERM U738; Emmanuelle Comets, INSERM U738; France Mentre, INSERM U738

9:50 a.m. **Modeling and Clinical Trial Simulation in the Post-**

Critical Path Drug—◆ Michael D. Hale, Amgen Inc.

10:15 a.m. Floor Discussion

487 CC-619 **● ⊕ Women Pioneering Solutions to New Global Challenges—Invited**

Committee on Women in Statistics

Organizer(s): Lori A. Thombs, University of Missouri-Columbia; Eleanor Feingold, University of Pittsburgh

Chair(s): Eleanor Feingold, University of Pittsburgh

8:35 a.m. **Aggregation, Lasso, and Sparsity**—◆ Florentina Bunea, Florida State University

9:00 a.m. **A Bayesian Hierarchical Model with Nest-Specific Covariates in Nest Survival Study**—◆ Jing Cao, Southern Methodist University; Chong He, Virginia Polytechnic Institute and State University

9:25 a.m. **Joint Statistical Models for Genome-Wide Tiling Array and Sequence Data**—◆ Sunduz Keles, University of Wisconsin-Madison; Heejung Shim, University of Wisconsin-Madison

9:50 a.m. **A Markov-Hidden Markov Model for Genetic Admixture**—◆ Hua Tang, Fred Hutchinson Cancer Research Center; Pei Wang, Fred Hutchinson Cancer Research Center; Marc Coram, The University of Chicago

10:15 a.m. Floor Discussion

488 CC-607 **● ⊕ Bayesian Methods in Bioinformatics—Invited**

Section on Bayesian Statistical Science, Biometrics Section, WNAR, ENAR

Organizer(s): Sounak Chakraborty, University of Missouri-Columbia

Chair(s): Marc A. Suchard, University of California, Los Angeles

8:35 a.m. **Bayesian Mixture Models and Application to High-Throughput Data**—◆ Kim-Anh Do, M. D. Anderson Cancer Center

9:00 a.m. **Bayesian Modeling of Complex Traits**—◆ Paola Sebastiani, Boston University

9:25 a.m. **Functional Clustering by Bayesian Wavelet Methods**—◆ Bani K. Mallick, Texas A&M University

9:50 a.m. **Multiclass Cancer Diagnosis with Bayesian Kernel Machine Models**—◆ Sounak Chakraborty, University of Missouri-Columbia

10:15 a.m. Floor Discussion

THE DIOPHANTINE FROBENIUS PROBLEM

Jorge L. Ramírez Alfonsín, *Université*

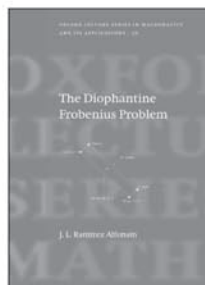
Pierre et Marie Curie, Paris

A number of methods from several areas of mathematics, have been used in the hope of finding a formula giving the Frobenius number and algorithms to calculate it. The main intention of this book is to highlight such methods, ideas viewpoints and applications to a broader audience.

(Oxford Lecture Series in Mathematics and Its Applications)

2006 260 pp.; 75 line illus.

0-19-856820-7 \$114.50/\$91.60



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For Functional Genomics and Bioinformatics

Soumya Raychaudhuri, *Stanford University*

This book brings together the two disparate worlds of computational text analysis and biology and presents some of the latest methods and applications to proteomics, sequence analysis and gene expression data. Including background chapters on the necessary biology, statistics and genomics, it is ideal for students and researchers in computational biology, bioinformatics, genomics, statistics and computer science.

2006 256 pp.
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New!

ARCHITECTURE OF MODERN MATHEMATICS

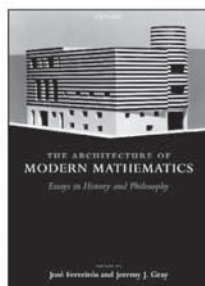
Essays in History and Philosophy

Edited by **J. Ferreirós**, *University of Seville*, and **J. J. Gray**, *Open University*

This edited volume, aimed at both students and researchers in philosophy, mathematics and history of science, highlights leading developments in the overlapping areas of philosophy and the history of modern mathematics. It is a coherent, wide ranging account of how a number of topics in the philosophy of mathematics must be reconsidered in the light of the latest historical research and how a number of historical accounts can be deepened by embracing philosophical questions.

May 2006 328 pp.; 2 line illus.

0-19-856793-6 \$74.50/\$59.60



STATISTICAL EVIDENCE IN MEDICAL TRIALS

Mountain or Molehill, What Do the Data Really Tell Us?

Stephen Simon, *Children's Mercy Hospital*

Statistical Evidence in Medical Trials is a lucid, well-written and entertaining text that addresses common pitfalls in evaluating medical research. This book is ideal for health care professionals, students in medical or nursing schools, researchers and students in statistics, and anyone needing to assess the evidence published in medical journals.

2006 2 08 pp.; 4 cartoons & 28 line illus.
0-19-856761-8 paper \$44.50/\$35.60
0-19-856760-X cloth \$114.50/\$91.60



INVITATION TO FIXED PARAMETER ALGORITHMS

Rolf Niedermeier, *Universitaet Jena*

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(Oxford Lecture Series in Mathematics and Its Applications

No. 31)

2006 312 pp.; 25 line illus.

0-19-856607-7 \$99.50/\$79.60



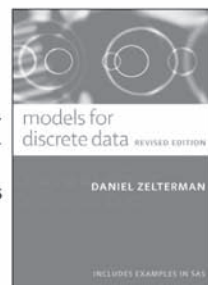
MODELS FOR DISCRETE DATA

Revised Edition

Daniel Zelterman, *Yale University*

This revised edition illustrates the statistical analysis of data using computer programs in SAS, a widely used software package in the health sciences. Many numerical examples are provided to illustrate the methods and these are discussed along with the corresponding computer output. Several new datasets are included, mostly from the health and medical sector.

2006 352 pp.; 25 line illus.
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Forthcoming!

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Terence Tao, *UCLA*

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November 2006 150 pp.

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0-19-920561-2 cloth \$74.50/\$59.60

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GENERAL PROGRAM SCHEDULE

⊛ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

489 CC-2B ● Bayesian Inference for Population Survey Data—Invited

Section on Survey Research Methods, Section on Bayesian Statistical Science

Organizer(s): Michael R. Elliott, University of Michigan

Chair(s): Steven G. Heeringa, University of Michigan

- 8:35 a.m. **The Bayesian Approach to Inference for Finite Population Samples**—❖ Roderick J. Little, University of Michigan
- 9:00 a.m. **Weight Trimming via Bayesian Variable Selection Methods**—❖ Michael R. Elliott, University of Michigan
- 9:25 a.m. **Bayesian Approach for Combining Information from Multiple Surveys**—❖ Trivellore E. Raghunathan, University of Michigan
- 9:50 a.m. **Influence Functions and Robust Bayes Estimation**—❖ Malay Ghosh, University of Florida; Tapabrata Maiti, Iowa State University; Ananya Roy, University of Florida
- 10:15 a.m. **Floor Discussion**

490 CC-303 ● Graphical Tools for Spatial Econometrics—Invited

Section on Statistical Graphics

Organizer(s): Christine Thomas-Agnan, University of Toulouse

Chair(s): Antoine de Falguerolles, University Paul Sabatier (Toulouse III)

- 8:35 a.m. **Using ArcView Mapping Files in Statistical Software Programs**—❖ James P. LeSage, The University of Toledo
- 9:05 a.m. **GeoXp: an R Package for Interactive Exploratory Spatial Data Analysis**—❖ Anne Ruiz-Gazen, University Toulouse I; Christine Thomas-Agnan, University of Toulouse
- 9:35 a.m. **Exploring Spatial Data with openGeoDa and PySAL**—❖ Luc Anselin, University of Illinois; Sergio J. Rey, San Diego State University
- 10:05 a.m. **Floor Discussion**

491 CC-614 ● Bayesian Nonparametric Methods—Invited

ENAR, WNAR, Section on Bayesian Statistical Science, Section on Nonparametric Statistics

Organizer(s): Mahlet G. Tadesse, University of Pennsylvania

Chair(s): Mahlet G. Tadesse, University of Pennsylvania

- 8:35 a.m. **Split-Merge Markov Chain Monte Carlo for a Nonconjugate Dirichlet Process Mixture Model**—❖ Sonia Jain, University of California, San Diego; Radford Neal, University of Toronto
- 9:00 a.m. **Bayesian Semiparametric Inferences for Disease Risk, ROC Curves, and Prevalence**—❖ Wesley O. Johnson, University of California, Irvine; Adam Branscum, University of Kentucky
- 9:25 a.m. **Nonparametric Estimation of Copulas via Mixtures**—❖ Peter Hoff, University of Washington
- 9:50 a.m. **Bayesian Nonparametric Spatial and Spatio-Temporal Models for Disease Incidence Data**—❖ Athanasios Kottas, University of California, Santa Cruz; Jason Duan, Duke University; Alan E. Gelfand, Duke University
- 10:15 a.m. **Floor Discussion**

492 CC-304 ● Fusing Environmental Data with Numerical Models—Invited

Section on Statistics and the Environment, Section on Bayesian Statistical Science

Organizer(s): Montserrat Fuentes, North Carolina State University

Chair(s): Alan Gelfand, Duke University

- 8:35 a.m. **Statistical Data Assimilation To Improve Hurricane Forecasting**—❖ Montserrat Fuentes, North Carolina State University; Kristen M. Foley, North Carolina State University
- 9:00 a.m. **Stochastic Parameterizations in Numerical Weather Forecasting Models**—❖ Christopher K. Wikle, University of Missouri-Columbia; Yong Song, University of Missouri-Columbia; Christopher Anderson, National Oceanic & Atmospheric Administration
- 9:25 a.m. **Ensemble Smoothing for Understanding Geophysical Processes**—❖ Douglas W. Nychka, National Center for Atmospheric Research
- 9:50 a.m. **Disc: Peter Guttorp, University of Washington**
- 10:10 a.m. **Floor Discussion**

Invited Panels 8:30 a.m.–10:20 a.m.

493 CC-2A

● ⊕ **Federal Data-Sharing Requirements: Issues, Ethical Challenges, and Roles for the Statistical Community—Invited**

Section on Government Statistics

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

Chair(s): Alvan O. Zarate, National Center for Health Statistics

- Panelists:**
- ❖ Joan E. Sieber, California State University, East Bay
 - ❖ Karen M. Hansen, Fred Hutchinson Cancer Research Center
 - ❖ Helen McGough, University of Washington
 - ❖ Alan M. Zaslavsky, Harvard Medical School

10:15 a.m. **Floor Discussion**

Topic-Contributed Sessions 8:30 a.m.–10:20 a.m.

494 CC-613

● **Survival Analysis Issues for Medical Devices—Topic-Contributed**

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): David Breiter, Guidant Corporation

Chair(s): W. J. Hall, University of Rochester Medical Center

- 8:35 a.m. **Confidence Levels of Confidence Intervals in the Survival Analysis**—❖ Xiaolong Shih, Boston Scientific Corporation
- 8:55 a.m. **Futility Analysis for a Randomized Trial with a Time-to-Event Endpoint**—❖ Corina M. Sirbu, Boston Scientific Corporation; Kay M. Larholt, Boston Scientific Corporation
- 9:15 a.m. **General Statistical Issues and Applications for Survival Analysis in Medical Device Clinical Studies**—❖ Chang S. Lao, U.S. Food and Drug Administration
- 9:35 a.m. **Group Sequential Design of Device Trials Using Time-to-Event Analysis with Highly Unbalanced, Recurrent Events**—❖ Zengri Wang, Medtronic, Inc.; Andrew Mugglin, University of Minnesota
- 9:55 a.m. **Disc:** Gosford Sawyerr, Medtronic, Inc.
- 10:15 a.m. **Floor Discussion**

495 CC-620

⊕ **Industry Applications in Defense and National Security—Topic-Contributed**

Section on Statisticians in Defense and National Security, Section on Physical and Engineering Sciences

Organizer(s): I-Li Lu, The Boeing Company

Chair(s): I-Li Lu, The Boeing Company

- 8:35 a.m. **Exploiting Ontologies To Enhance Situation Awareness**—❖ Steven A. Lien, The Boeing Company; Matt Easley, Rockwell Scientific
- 8:55 a.m. **Multi-Sensor Fusion Using Nontraditional Sensors**—❖ Edward Wright, Information Extraction and Transport, Inc.
- 9:15 a.m. **Design of Experiments for Wind Tunnel Testing: an Application on Load Investigation**—❖ Julio Peixoto, The Boeing Company; Winson Taam, The Boeing Company; I-Li Lu, The Boeing Company
- 9:35 a.m. **Parametric Analysis of Advanced Feature-Aided Tracking with Dynamic Resource Allocation and Management**—❖ Thomas C. Bradley, Boeing Phantom Works; Dwight Rousu, Boeing Phantom Works; Jeffery D. King, Boeing Phantom Works; Jeffery D. Musiak, Boeing Phantom Works
- 9:55 a.m. **Weighted Least Squares Approach To Assess Flight Test with Unbalanced Samples**—❖ Winson Taam, The Boeing Company
- 10:15 a.m. **Floor Discussion**

496 CC-611

● **Statistical Developments in Cancer Surveillance Research—Topic-Contributed**

Section on Statistics in Epidemiology, Section on Health Policy Statistics, Biometrics Section, ENAR

Organizer(s): Mousumi Banerjee, University of Michigan

Chair(s): Mousumi Banerjee, University of Michigan

- 8:35 a.m. **Learning from Cancer Incidence: Secular Trend, Lead Time, and Overdiagnosis in Prostate Cancer Screening**—❖ Ruth Etzioni, Fred Hutchinson Cancer Research Center; Donatello Telesca, University of Washington
- 8:55 a.m. **Screening with Virtual Colonoscopy: Should Small Polyps Be Referred for Removal?**—❖ Iris Vogelaar, University Medical Center Rotterdam; Marjolein van Ballegooijen, University Medical Center Rotterdam; Ann Zauber, Memorial

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- Sloan-Kettering Cancer Center; J. Dik F. Habbema, University Medical Center Rotterdam
- 9:15 a.m. **Modeling the Impact of Customizing Colorectal Screening by Age, Sex, and Race**—◆ Ann Zauber, Memorial Sloan-Kettering Cancer Center; Iris Vogelaar, University Medical Center Rotterdam; Marjolein van Ballegooijen, University Medical Center Rotterdam; J. Dik F. Habbema, University Medical Center Rotterdam; Sidney Winawer, Memorial Sloan-Kettering Cancer Center
- 9:35 a.m. **Short-Term Prediction of Time Series Using Semiparametric Bayesian Techniques**—◆ Kaushik Ghosh, New Jersey Institute of Technology; Ram Tiwari, National Institutes of Health
- 9:55 a.m. Disc: Kathy Cronin, National Cancer Institute
- 10:15 a.m. Floor Discussion

497 CC-606 ⊕ **Bayesian Methods and Computation in Finance—Topic-Contributed**

Section on Bayesian Statistical Science

Organizer(s): Shawn Ni, University of Missouri-Columbia

Chair(s): Susan Alber, University of California, Los Angeles

- 8:35 a.m. **A Full Information Bayesian Approach to the Evaluation and Estimation of DSGE Models**—◆ John Landon-Lane, Rutgers University
- 8:55 a.m. **Bayesian Selection of Multivariate Stochastic Volatility Models**—◆ Antonello Loddo, University of Missouri-Columbia
- 9:15 a.m. **Bayesian Smoothing in Generalized Additive Models**—◆ Shawn Ni, University of Missouri-Columbia; Dongchu Sun, Virginia Polytechnic Institute and State University/University of Missouri-Columbia
- 9:35 a.m. **Leveling the Playing Field: Prior Choice and DSGE Model Comparisons**—◆ Marco Del Negro, Federal Reserve Bank of Atlanta
- 9:55 a.m. Floor Discussion

498 CC-201 ● ⊕ **New Directions in Comparative and Cross-Cultural Survey Methods—Topic-Contributed**

Section on Survey Research Methods

Organizer(s): Janet Harkness, University of Nebraska-Lincoln

Chair(s): Janet Harkness, University of Nebraska-Lincoln

- 8:35 a.m. **Quality Assurance in Comparative Studies**—◆ Lars Lyberg, Statistics Sweden

- 8:55 a.m. **Harmonization by Design**—◆ Beth-Ellen Pennell, University of Michigan
- 9:15 a.m. **The Effects of Acculturation on Survey Question Comprehension among Latino Respondents in the United States**—◆ Timothy P. Johnson, University of Illinois at Chicago; Allyson L. Holbrook, University of Illinois at Chicago; Young I. Cho, University of Illinois at Chicago
- 9:35 a.m. **Use of Interpreters in Telephone Interviews**—◆ Laura Branden, Westat
- 9:55 a.m. **Cross-Cultural, Cross-National Questionnaire Design**—◆ Sue Ellen Hansen, University of Michigan
- 10:15 a.m. Floor Discussion

Regular Contributed Sessions 8:30 a.m.–10:20 a.m.

499 CC-206 **Explorations in Behavior and Outcomes—Contributed**

Social Statistics Section

Chair(s): Carole L. Popoff, U.S. Census Bureau

- 8:35 a.m. **Shift Workers and Their Spouses' Daily Activities**—◆ Anne Polivka, Bureau of Labor Statistics
- 8:50 a.m. **A Group-Based Approach to Causal Analysis Using Longitudinal Data with Applications to Gang Membership and Teen Violence**—◆ Amelia Haviland, RAND Corporation; Daniel Nagin, Carnegie Mellon University; Paul Rosenbaum, University of Pennsylvania
- 9:05 a.m. **Toward Redistricting Rules Based on Housing Density and Indivisible Census Tracts**—◆ Tom Belin, University of California, Los Angeles
- 9:20 a.m. **Test Equating for Mixed-IRT Models: an Illustration with 3PL and Generalized Partial Credit Model Using the Stacking-Lord Approach**—◆ Yann-Yann Shieh
- 9:35 a.m. **Oral Translations in Surveys: Issues of Data Quality and Question Design**—◆ Janet Harkness, University of Nebraska-Lincoln
- 9:50 a.m. **Comparing Internet Users and Nonusers' Behavior Toward Market Products**—◆ Nuria Diaz-Tena, Mathematica Policy Research, Inc.; Robert Benford, TNS-Global

10:05 a.m. **A Policy Tool for Assessing Alcohol Intervention Strategies**—Edward Wegman, George Mason University; ❖ Yasmin H. Said, The Johns Hopkins University

500 **CC-211**
● Imputation of Sample Surveys—Contributed

Section on Survey Research Methods

Chair(s): Benmei Liu, Westat

8:35 a.m. **Fractional Imputation for Missing Values in Linear Regression Models**—❖ Minhui Paik, Iowa State University; Michael D. Larsen, Iowa State University; Shin-Soo Kang, Iowa State University

8:50 a.m. **2010 Census Count Imputation: Research Results Using Spatial Modeling**—❖ Robert D. Sands, U.S. Census Bureau

9:05 a.m. **Bias-Reduced Multivariate Imputation: Use of the Locally Adjusted Predictive Mean Matching Method**—❖ Masato Okamoto, Statistical Research and Training Institute

9:20 a.m. **Imputation of Economic Data Subject to Linear Restrictions Using a Sequential Regression Approach**—❖ Caren Tempelman, University of Groningen

9:35 a.m. **Imputations via Triangular Regression-Based Hot Deck: Methods for Rapid Development of an Allocation Scheme and Preservation of the Covariance Matrix**—❖ Scott Susin, U.S. Census Bureau

9:50 a.m. **Creating Imputation Classes Using Nonparametric Classification Trees**—❖ Darryl Creel, RTI International; Stephen Black, RTI International; Karol Krotki, RTI International; Jeremy Porter, RTI International

10:05 a.m. **2010 Census Count Imputation: Research Results for Alternative Methods**—❖ Andrew Kilmer, U.S. Census Bureau

501 **CC-610**
● ⊕ Theory and Application of Survival Analysis—Contributed

Section on Statistics in Epidemiology, Biometrics Section, ENAR

Chair(s): Patrick Tarwater, The University of Texas Health Science Center at Houston

8:35 a.m. **Proportional Hazards Model with Empirically Estimated Weights**—❖ Qing Pan, University of Michigan; Douglas E. Schaubel, University of Michigan

8:50 a.m. **Power Estimation for Clearance of Live Vaccine Virus Using Weibull Survival Models with Interval Censoring**—❖ Daniel Zaccaro, Rho, Inc.; Barry Eggleston, Rho, Inc.; Susan Lieff, Rho, Inc.; Dennis Wallace, Rho, Inc.; Jon Hanifin, Oregon Health & Science University; Donald Leung, National Jewish Medical and Research Center; Marshall Plaut, National Institute of Allergy and Infectious Diseases; Erica Brittain, National Institute of Allergy and Infectious Diseases; Robert Holliday, Rho, Inc.; Mark Slifka, Oregon Health & Science University

9:05 a.m. **Comparison of Survival Methods and Polytomous Logistic Regression with Competing Risks**—❖ Robert Glynn, Brigham and Women's Hospital; Bernard Rosner, Harvard Medical School

9:20 a.m. **Software for Survival Analysis of Studies Nested within Cohorts To Estimate Relative, Absolute, and Attributable Risks**—❖ Hormuzd Katki, National Cancer Institute; Steven D. Mark, University of Colorado Health Sciences Center

9:35 a.m. **Population Attributable Risk in the Presence of Cure/Immune Individuals: a Simulation-Based Study**—❖ Jayawant Mandrekar, Mayo Clinic College of Medicine; Melvin L. Moeschberger, The Ohio State University

9:50 a.m. **Comparison of Methods to Model Mortality in the Presence of Time-Dependent Confounders**—❖ Ouhong Wang, Amgen Inc.; Trevor McMullan, Amgen Inc.

10:05 a.m. **Estimating Lifetime Risk Accounting for Baseline Prevalence: High Total Cholesterol in Framingham Heart Study**—❖ Michael Pencina, Boston University; Ralph B. D'Agostino, Boston University; Ramachandran S. Vasani, Framingham Heart Study; Alexa Beiser, Boston University; Mark R. Cobain, Unilever Corporate Research

502 **CC-204**
● Survey-Based Estimation V—Contributed

Section on Survey Research Methods

Chair(s): Donsig Jang, Mathematica Policy Research, Inc.

8:35 a.m. **Weighting an Internet Panel Survey on Drug Use and Abuse**—❖ Harpe Gordek, RTI International; Rick L. Williams, RTI International; Lanting Dai, RTI International

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- 8:50 a.m. **A New Method for Weighting Survey Respondents**—◆ Feiming Chen, Spectra Marketing Systems
- 9:05 a.m. **Nonparametric Regression with Complex Survey Data**—◆ Torsten Harms, Freie Universität Berlin; Pierre Duchesne, Université de Montréal
- 9:20 a.m. **Combining Survey and Population Data in Inference**—◆ Raymond Chambers, University of Wollongong
- 9:35 a.m. **Dual Frame Estimation in the National Survey of College Graduates**—◆ John Finamore, U.S. Census Bureau; David W. Hall, U.S. Census Bureau; Ronald S. Fecso, National Science Foundation
- 9:50 a.m. **Use Sampling Weights in Hierarchical Modeling**—◆ Yue Jia, Southern Methodist University; S. Lynne Stokes, Southern Methodist University
- 10:05 a.m. **Anomaly of Survey Weights for American Indians and Alaska Natives**—◆ Sunghee Lee, University of California, Los Angeles; John H. Kurata, University of California, Los Angeles; Yan Xiong, University of California, Los Angeles

503 CC-203 Broad Quality Issues in Organizations— Contributed

Section on Government Statistics

Chair(s): Eugene Burns, Bureau of Transportation Statistics

- 8:35 a.m. **Business Process Improvement in the Economic Programs Directorate at the U.S. Census Bureau**—◆ Deborah Stempowski, U.S. Census Bureau; Shirin A. Ahmed, U.S. Census Bureau
- 8:50 a.m. **Assessing the Improvement of Data Quality: Surveys Revised Using Cognitive Techniques**—
◆ Kara Norman, Energy Information Administration; Carrie Hughes-Cromwick, Energy Information Administration
- 9:05 a.m. **Revisions and Other Changes in Official Statistics: Swedish Observations on Concepts and Terminology**—◆ Eva Elvers, Statistics Sweden
- 9:20 a.m. **Improving the Job Opening and Labor Turnover Survey**—◆ Darrell Greene, Bureau of Labor Statistics
- 9:35 a.m. **Data Quality Review at a Small Agency**—◆ John Blachere, U.S. Consumer Product Safety Commission

- 9:50 a.m. **Tying Web Site Performance to Mission Achievement in the Federal Government**—
◆ Diane Milleville, U.S. Internal Revenue Service
- 10:05 a.m. **Results from the International Survey of ASA Members**—◆ Amy Luo, Ernst & Young LLP; Roberta Sangster, Bureau of Labor Statistics

504 CC-604 Bayesian Multiple Testing and Decision Theory—Contributed

Section on Bayesian Statistical Science

Chair(s): David Dahl, Texas A&M University

- 8:35 a.m. **Capturing Uncertainty When the Event Probability Is Subject to Uncertainty**—◆ Ehsan S. Soofi, University of Wisconsin-Milwaukee; Paul C. Nystrom, University of Wisconsin-Milwaukee; Masoud Yasai-Ardekani, George Mason University
- 8:50 a.m. **A New Bayes Rule**—◆ James R. Meginniss, Vista Research, Inc.
- 9:05 a.m. **Estimating the Positive False Nondiscovery Rate and False Nondiscovery Rate in Multiple Hypothesis Testing**—◆ Changzheng Chen, K & L Consulting Services Inc.; Burt Holland, Temple University
- 9:20 a.m. **Decision Theoretic Bayesian Hypothesis Testing with the Selection Goal**—◆ Naveen Bansal, Marquette University
- 9:35 a.m. **Bayes Approach to Dependent Multiple Comparisons**—◆ Lemuel Moye, The University of Texas Health Science Center at Houston
- 9:50 a.m. **A Bayesian Multiple Comparison Procedure for Order-Restricted Mixed Models**—◆ Junfeng Shang, Bowling Green State University; Farroll T. Wright, University of Missouri; Joseph E. Cavanaugh, The University of Iowa
- 10:05 a.m. **Empirical Bayes Analysis on the Power Law Process**—◆ Zhao Chen, Florida Gulf Coast University

505 CC-310 Simulation—Contributed

Section on Statistical Computing, Section on Physical and Engineering Sciences

Chair(s): Tanzy Love, Carnegie Mellon University

- 8:35 a.m. **Importance Sampling with the Huber and Elliptical Multivariate Logistic Distributions**—
◆ Stella W. Karuri, North Carolina State University; Buffy Hudson-Curtis, North Carolina

State University; John Monahan, North Carolina State University

- 8:50 a.m.** **Application of Randomized Spherical-Radial Integration to the E-step of the Monte Carlo Expectation Maximization Algorithm for Generalized Linear Mixed Models**—❖ Vadim Zippunikov, Cornell University; James Booth, Cornell University
- 9:05 a.m.** **An Implementation of Constrained Sequential Monte Carlo by Particle Resizing**—❖ Lixin Lang, The Ohio State University; Prem K. Goel, The Ohio State University; Bhavik R. Bakshi, The Ohio State University
- 9:20 a.m.** **Continuous Contour Monte Carlo for Marginal Density Estimation**—❖ Faming Liang, Texas A&M University
- 9:35 a.m.** **Annealing Contour Monte Carlo Algorithm for Real Protein Folding**—❖ Sooyoung Cheon, Texas A&M University
- 9:50 a.m.** **Simulation-Based Estimation**—❖ Weijie Cai, George Mason University; James Gentle, George Mason University
- 10:05 a.m.** **Solving Complex Network Optimization Problems Using Response Surface Methodology**—❖ Ying-Chao Hung, National Central University

506 CC-205 Bayesian Statistics and Methods—Contributed

IMS, Section on Bayesian Statistical Science

Chair(s): Man Sik Park, Colorado State University

- 8:35 a.m.** **Robust Prior Bayes Estimation on Infinite Dimensional Normal Mean and Spectral Densities**—❖ Herman Rubin, Purdue University; Hui Xu, Purdue University
- 8:50 a.m.** **Geometric Ergodicity of the Gibbs Sampler for the Probit Model**—❖ Vivekananda Roy, University of Florida
- 9:05 a.m.** **Markov Chain Monte Carlo Approximation of the Posterior in Hierarchical Linear Models**—❖ Galin Jones, University of Minnesota
- 9:20 a.m.** **On the Bayesian Detection of a Change in the Arrival Rate of a Poisson Process**—❖ Marlo Brown, Niagara University
- 9:35 a.m.** **The Bayesian LASSO**—❖ Trevor Park, University of Florida; George Casella, University of Florida
- 9:50 a.m.** **Robust Estimators and Influence Measures**

of Extremal Dependence—❖ Yu-Ling Tsai, University of Western Ontario; Duncan Murdoch, University of Western Ontario; Debbie Dupuis, HEC Montréal

- 10:05 a.m.** **Floor Discussion**

507 CC-605 ● Teaching and Technology—Contributed

Section on Statistical Education

Chair(s): Lewis VanBrackle, Kennesaw State University

- 8:35 a.m.** **Real-Time Classroom Data Collection**—❖ Jeffrey Lidicker, Temple University; Alicia Graziosi, Temple University
- 8:50 a.m.** **Visualizing Hypothesis Testing Concepts through the Power of PowerPoint**—❖ Edward Mansfield, The University of Alabama
- 9:05 a.m.** **Ways To Increase the Use of Graphs throughout the Introductory Applied Statistics Course**—❖ John McKenzie, Babson College
- 9:20 a.m.** **I Spy (Assessing the Reliability of Eye-Witness Testimony)**—❖ Mary Richardson, Grand Valley State University; Paul Stephenson, Grand Valley State University
- 9:35 a.m.** **Using Online Videos To Supplement Classroom Instruction**—❖ Monnie McGee, Southern Methodist University; Jing Cao, Southern Methodist University; Robert Skinner, Southern Methodist University; Ian K. Aberle, Southern Methodist University
- 9:50 a.m.** **Using Computer-Aided Learning To Teach Statistics**—❖ Tristan Denley, University of Mississippi; Kim Denley, University of Mississippi
- 10:05 a.m.** **A Probability Problem on the Number of Loops Formed When Ends of Strings Are Tied**—❖ Marepalli Rao, University of Cincinnati; Subramanyam Kasala, The University of North Carolina at Wilmington

508 CC-307 ● Robust Statistical Methods—Contributed

Section on Nonparametric Statistics

Chair(s): Samuel Wu, University of Florida

- 8:35 a.m.** **Multivariate Spatial Median for Clustered Data**—❖ Denis Larocque, HEC Montréal; Jaakko Nevalainen, University of Tampere; Hannu Oja, University of Tampere

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- 8:50 a.m. **Multivariate Robust Regression Based on General Depth Function**—◆ Weihua Zhou, The University of North Carolina at Charlotte
- 9:05 a.m. **Robust Efficient Identification of an Outlying Cell in a Two-Way Layout with Replicates**—◆ Nathalie Malo, Genome Quebec Innovation Centre/McGill University
- 9:20 a.m. **Robust Testing of the Nonparametric Behrens-Fisher Hypothesis Using a Density Ratio Model**—◆ James Troendle, National Institute of Child Health & Human Development; Kostas Fokianos, University of Cyprus
- 9:35 a.m. **Robust Nonparametric Confidence Intervals and Tests for the Median in the Presence of (c,r)-Contamination**—◆ Masakazu Ando, Japan Society for the Promotion of Science; Itsuro Kakiuchi, Kobe University; Miyoshi Kimura, Nanzan University
- 9:50 a.m. **Inference in a Simple Random Effects Model with Low Replication and Nonnormal Distributions**—◆ Hongjuan Liu, University of California, Riverside; Xinping Cui, University of California, Riverside
- 10:05 a.m. **On the Estimation of Disability-Free Life Expectancy**—◆ Kosuke Imai, Princeton University; Samir Soneji, Princeton University

509 CC-308 ● **New Methods and Practical Application—Contributed**

Section on Quality and Productivity, Section on Physical and Engineering Sciences

Chair(s): James D. Williams, GE Global Research

- 8:35 a.m. **Robust Designs for One-Way Random Effects Model Using Q-estimator**—◆ Julie Zhou, University of Victoria; Xiaolong Yang, University of Victoria
- 8:50 a.m. **Beta-Geometric Distribution in Survival Modeling**—◆ Alfred Akinsete, Marshall University
- 9:05 a.m. **Optimal Targeting under an Asymmetric Loss**—◆ Yvonne Zubovic, Indiana University Purdue University Fort Wayne; Chand K. Chauhan, Indiana University Purdue University Fort Wayne
- 9:20 a.m. **Adaptively Trimmed L-Moments with Applications to Heavy-Tailed Distributions**—◆ Jonathan Hosking, IBM Research

- 9:35 a.m. **Goodness-of-Fit Testing and Pareto-Tail Estimation**—◆ Yuri Goegebeur, University of Southern Denmark; Jan Beirlant, K.U. Leuven; Tertius de Wet, University of Stellenbosch
- 9:50 a.m. **New Methods Using Levene-Type Tests for Hypotheses about Dispersion Differences**—◆ Xiaoni Liu, North Carolina State University; Dennis A. Boos, North Carolina State University; Cavell Brownie, North Carolina State University
- 10:05 a.m. **On Goodman and Kruskal's G and Stuart's Measure of Association**—◆ Jeffrey Green, Ball State University

510 CC-608 ● **Microarrays—Contributed**

Biopharmaceutical Section, Biometrics Section, ENAR

Chair(s): Brian L. Wiens, Myogen, Inc.

- 8:35 a.m. **Validation of Biomarkers Identified by Gene Expression Profiles**—◆ Boris Zaslavsky, U.S. Food and Drug Administration; Jing Han, U.S. Food and Drug Administration; Jawahar Tiwari, U.S. Food and Drug Administration; Raj K. Puri, U.S. Food and Drug Administration
- 8:50 a.m. **Gene Expression Data Analysis Using the Gene Ontology**—◆ Jiajun Liu, North Carolina State University; Jacqueline Hughes-Oliver, North Carolina State University; Alan J. Menius, GlaxoSmithKline
- 9:05 a.m. **Microarray, PCR, and Northern Blot: a Comparison**—◆ Yongzeng Ding, Northwestern University; ◆ Borko Jovanovic, Northwestern University; Raymond Bergan, Northwestern University; Irene Helenowski, Northwestern University
- 9:20 a.m. **Technical, Longitudinal, and Genetic Variation in Proteomic Analysis of Human Plasma**—◆ Imola K. Fodor, Lawrence Livermore National Laboratory; Todd H. Corzett, Lawrence Livermore National Laboratory; Megan Choi, Lawrence Livermore National Laboratory; Vicki L. Walsworth, Lawrence Livermore National Laboratory; Kenneth W. Turteltaub, Lawrence Livermore National Laboratory; Sandra L. McCutchen-Maloney, Lawrence Livermore National Laboratory
- 9:35 a.m. **A Valid False Discovery Rate Procedure in Presence of Biased Null P-Values**—◆ Hoa Phuong Nguyen, Johnson & Johnson

9:50 a.m. **A Sequential Monte Carlo EM Solution to the Transcription Factor Binding Site Identification Problem**—✦Edmund Jackson, Cambridge University; William Fitzgerald, Cambridge University

10:05 a.m. **Statistical Issues in High-Throughput Screening**—✦E. Venkatraman, Memorial Sloan-Kettering Cancer Center; Hakim Djabballah, Memorial Sloan-Kettering Cancer Center

511 CC-617 ● **Power and Sample-Size Calculations—Contributed**

Biometrics Section

Chair(s): Sumithra Mandrekar, Mayo Clinic College of Medicine

8:35 a.m. **Quick Calculation for Sample Size While Controlling False Discovery Rate with Application to Microarray Analysis**—✦Peng Liu, Cornell University; J. T. Gene Hwang, Cornell University

8:50 a.m. **Sample Size for FDR-Control in DNA Microarray Studies**—✦Yongzhao Shao, New York University; Chi-Hong Tseng, New York University

9:05 a.m. **Sample-Size Determination for Multiple Comparisons**—✦Chi-Hong Tseng, New York University; Yongzhao Shao, New York University

9:20 a.m. **Power Calculations for Linear Mixed Effects Models Using SAS/PROC MIXED**—✦Andrzej Galecki, University of Michigan; Tomasz Burzykowski, Hasselt University

9:35 a.m. **Power Analysis for Longitudinal Study Designs**—✦Xin Tu, University of Rochester; Wan Tang, University of Rochester

9:50 a.m. **Accuracy of P-Values and Sample Size in Comparing Skewed Clinical Trial Data**—✦Jun Zhao, Organon; Gang Li, Johnson & Johnson

10:05 a.m. **Does Pair-Matching on Baseline Measures Improve Power in a Pre-Post Cluster Randomized Trial?**—✦Misook Park, Virginia Commonwealth University; Robert E. Johnson, Virginia Commonwealth University

512 CC-615 ● **Methodology and Applications Based on Mixed Models—Contributed**

Biometrics Section, ENAR

Chair(s): Hongmei Jiang, Northwestern University

8:35 a.m. **A Two-Step Logistic Regression-Linear Mixed**

Model Method to Calculate CpG Island Methylator Phenotype (CIMP) Scores in Colorectal Cancer Patients—✦Wei Wei, M. D. Anderson Cancer Center; Jeffrey S. Morris, M. D. Anderson Cancer Center; Jean-Pierre Issa, M. D. Anderson Cancer Center

8:50 a.m. **A Mixed Model Analysis of Errors in Radiotherapy**—✦Alai Tan, The University of Texas Medical Branch; Giuseppe Sanguineti, The University of Texas Medical Branch; Daniel H. Freeman, The University of Texas Medical Branch

9:05 a.m. **Flexible Random Intercept Models for Binary Outcomes Using Mixtures of Normals**—✦Ming-Wen An, The Johns Hopkins University; Brian Caffo, The Johns Hopkins University; Charles Rohde, The Johns Hopkins University

9:20 a.m. **Generalized Linear Mixed Models with Sparse Binary Outcome Data: Comparing Estimation Methods**—✦Marie-Eve Beauchamp, McGill University; Robert W. Platt, McGill University; James A. Hanley, McGill University

9:35 a.m. **Baseline Adjustment: Issues for Mixed-Effects Regression Models in Clinical Trials**—✦Ronald Thisted, The University of Chicago

9:50 a.m. **Performance of Pseudo-Rsquare Statistics in the Linear Mixed Model**—✦Jean Orelien, SciMetrika LLC; Lloyd Edwards, The University of North Carolina at Chapel Hill

10:05 a.m. **Floor Discussion**

513 CC-602 ● ⊕ **Health, Resources, Energy, and Ranking—Contributed**

Business and Economics Statistics Section, Section on Health Policy Statistics

Chair(s): Polly Phipps, Bureau of Labor Statistics

8:35 a.m. **Diseased-Based Price Index: a Cure Worse Than the Disease**—✦Ralph Bradley, Bureau of Labor Statistics

8:50 a.m. **Switching from Retrospective to Current-Year Data Collection in the Medical Expenditure Panel Survey-Insurance Component (MEPS-IC)**—✦Anne T. Kearney, U.S. Census Bureau; John P. Sommers, Agency for Healthcare Research and Quality

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- 9:05 a.m. **Nonparametric Inferences on Conditional Quantile Processes**—◆ Chuan Goh, University of Toronto
- 9:20 a.m. **Risk Sharing by Local Governments and Private Institutions in Environmental Transformation**—◆ Neela Manage, Florida Atlantic University
- 9:35 a.m. **Nonparametric Transfer Function Model**—◆ Jun Liu, Georgia Southern University; Qiwei Yao, London School of Economics; Rong Chen, University of Illinois at Chicago
- 9:50 a.m. **Rank-Based Estimation for Autoregressive Moving Average Time Series Models**—◆ Beth Andrews, Northwestern University
- 10:05 a.m. **Bayesian Seemingly Unrelated Regression in Spatial Regional Model: Economics of Agglomeration in Japan from 1991–2000**—◆ Kazuhiko Kakamu, Institute of Advanced Studies; Wolfgang Polasek, Institute for Advanced Studies; Hajime Wago, Nagoya University

514 CC-601 ● Regression, Time Series, and Adjustments—Contributed

Business and Economics Statistics Section

Chair(s): Christian K. Hansen, Eastern Washington University

- 8:35 a.m. **Using Firm Optimization To Evaluate and Estimate Returns to Scale**—◆ Yuriy Gorodnichenko, University of Michigan
- 8:50 a.m. **How Far to Asymptopia? Errors and Regressors with Realistically Asymmetric Distributions Generate Unreliable t-Statistics in Large Finite Samples**—◆ Robert McClelland, Bureau of Labor Statistics; Elliot Williams, Bureau of Labor Statistics
- 9:05 a.m. **Effectiveness of Two-Stage Least Squares in Correcting Endogeneity Bias: a Monte Carlo Study**—◆ V. A. R. Samaranyake, University of Missouri-Rolla; Xujun Wang, University of Missouri-Rolla
- 9:20 a.m. **Tuning Parameter Selectors for SCAD**—◆ Hansheng Wang, Peking University; Runze Li, The Pennsylvania State University; Chih-Ling Tsai, University of California, Davis
- 9:35 a.m. **A Stepwise SPA Test for Data Snooping and Its Application on Fund Performance Evaluation**—◆ Yu-Chin Hsu, The University of Texas at Austin; Po-Hsuan Hsu, Columbia University

- 9:50 a.m. **An Alternative Framework for Univariate and Multivariate Seasonal Adjustment**—◆ Stéphane Gregoir, CREST/INSEE
- 10:05 a.m. **Nonlinear Properties of Conditional Returns under Scale Mixtures**—◆ Venkata Jandhyala, Washington State University; Stergios B. Fotopoulos, Washington State University

515 CC-609 ● Psychiatric, Cardiovascular, and Infectious Disease Trials—Contributed

Biopharmaceutical Section, ENAR

Chair(s): T. Paulette Ceesay, Merck & Co., Inc.

- 8:35 a.m. **Comparison of Methods for Handling Missing Data in Noninferiority Psychiatric Trials**—◆ Isaac Nuamah, Johnson & Johnson Pharmaceutical R&D; Guohua Pan, Johnson & Johnson Pharmaceutical R&D; Kwang-Shi Shu, Johnson & Johnson Pharmaceutical R&D; Pilar Lim, Johnson & Johnson Pharmaceutical R&D
- 8:50 a.m. **Differentiating Major Depressive Disorder in Youths with Attention Deficit Hyperactivity Disorder**—◆ Adriana Lopez, University of Pittsburgh; Satish Iyengar, University of Pittsburgh; Rasim Diler, University of Pittsburgh; William Daviss, University of Pittsburgh
- 9:05 a.m. **Impact of Reference Range Selection on Long-Term Growth Evaluations**—◆ Dustin Ruff, Eli Lilly and Company
- 9:20 a.m. **Is There an Optimal Sample in Depression Studies?**—◆ Kenneth Liu, Merck & Co., Inc.; Duane Snavely, Merck & Co., Inc.
- 9:35 a.m. **Placebo Effect—Adjusted Assessment of Quality of Life in Placebo-Controlled Clinical Trials**—◆ Jens Eickhoff, University of Wisconsin-Madison
- 9:50 a.m. **Clinical Trial Designs To Study Rare Infectious Diseases**—◆ Yufeng Li, The University of Alabama at Birmingham; Seng-jaw Soong, The University of Alabama at Birmingham
- 10:05 a.m. **Floor Discussion**

516 CC-618 Environmental Models and Assessing Gene- Environment Interactions—Contributed

Biometrics Section, WNAR, ENAR

Chair(s): Samiran Sinha, Texas A&M University

- 8:35 a.m. Statistical Issues Related to Development of a New Model of the Life Cycle of Salmonid Fishes in the Pacific Northwest**—❖ Steven G. Smith, U.S. Department of Commerce; James R. Faulkner, U.S. Department of Commerce; Richard W. Zabel, U.S. Department of Commerce/NOAA Fisheries
- 8:50 a.m. Breeding Value Estimation in Forest Genetics**—❖ Anne M. Millar, Dalhousie University
- 9:05 a.m. A Model for Ordinal Data with Spatial and Temporal Dependency**—❖ Graciela Gonzalez-Farias, CIMAT; Rogelio Ramos-Quiroga, CIMAT; Felipe Peraza-Garay, Universidad Autonoma de Sinaloa
- 9:20 a.m. New Method for Assessing Gene-Environment Interaction in Case-Only Studies**—❖ Shizue Izumi, Oita University; John Cologne, Radiation Effects Research Foundation
- 9:35 a.m. An Evaluation of the Benefit of Genetic Information in Discovering the Effect of an Environmental Factor on Disease**—❖ Abhijit Dasgupta, Thomas Jefferson University; Nilanjan Chatterjee, National Cancer Institute; Sholom Wacholder, National Cancer Institute
- 9:50 a.m. Analysis of an Interaction Threshold in a Mixture of Drugs and/or Chemicals**—❖ Adam Hamm, Rho, Inc.
- 10:05 a.m. Floor Discussion**

517 CC-616 ● Statistical Methods in HIV Research— Contributed

Biometrics Section, ENAR

Chair(s): Hrishikesh Chakraborty, RTI International

- 8:35 a.m. Combining Retrospective and Prospective Data To Improve Markov Transition Parameter Estimation for Characterizing the Accumulation of HIV-1 Drug Resistance Mutations**—❖ Brian Healy, Harvard School of Public Health; Victor DeGruttola, Harvard School of Public Health; Marcello Pagano, Harvard School of Public Health

- 8:50 a.m. Inference for Multiple Kappas with Nested and Clustered Study Designs: Application to HIV Prevention and Sexual Abuse Research**—❖ Yan Ma, University of Rochester; Xin Tu, University of Rochester
- 9:05 a.m. On Sensitivity Analysis of HIV-Free Survival**—❖ Peng Zhang, Harvard University; Stephen W. Lagakos, Harvard University
- 9:20 a.m. Hierarchical Poisson Regression Models for HIV Vaccine Studies**—❖ Xin Huang, University of California, Los Angeles; W. John Boscardin, University of California, Los Angeles; Elissa Schwartz, Harvey Mudd College
- 9:35 a.m. Hypothesis Testing of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials**—❖ Xiang Guo, sanofi-aventis; Anastasios A. Tsiatis, North Carolina State University
- 9:50 a.m. Design and Analysis of Neutralizing Antibody Assays in HIV-1 Vaccine Trials**—❖ Yunda Huang, Fred Hutchinson Cancer Research Center; Peter Gilbert, Fred Hutchinson Cancer Research Center/University of Washington; David Montefiori, Duke University Medical Center; Steve Self, University of Washington
- 10:05 a.m. Antigen Scanning Methods for Identifying Peptide Signatures**—❖ Allan deCamp, Fred Hutchinson Cancer Research Center; Peter Gilbert, Fred Hutchinson Cancer Research Center/University of Washington

Invited Sessions 10:30 a.m.–12:20 p.m.

518 CC-605 Releasing Tabular Data Collected under a Confidentiality Pledge: Going beyond Cell Suppression—Invited

Business and Economics Statistics Section

Organizer(s): Steve H. Cohen, Bureau of Labor Statistics

Chair(s): Jacob Bournazian, Energy Information Administration

- 10:35 a.m. A Comparison on Data Utility between Publishing Fixed Intervals versus Traditional Cell Suppression on Tabular Employment Data**—❖ Steve H. Cohen, Bureau of Labor Statistics; Bogong Li, Bureau of Labor Statistics

GENERAL PROGRAM SCHEDULE

⊛ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- 11:00 a.m. **Quality-Preserving Controlled Tabular Adjustment: an Alternative to Cell Suppression for Disclosure Limitation of Tabular Magnitude Data**—◆Lawrence H. Cox, National Center for Health Statistics
- 11:25 a.m. **Combining Synthetic Data and Noise Infusion for Confidentiality Protection of the Quarterly Workforce Indicators**—◆John Abowd, Cornell University; Lars Vilhuber, Cornell University
- 11:50 a.m. **Protecting the Confidentiality of Commodity Flow Survey Tables by Adding Noise to the Underlying Microdata**—◆Paul B. Massell, U.S. Census Bureau; J. Neil Russell, National Center for Education Statistics
- 12:15 p.m. **Floor Discussion**

519 CC-603 ● **Monte Carlo Methods for Computationally Intensive Problems—Invited**

Section on Statistical Computing

Organizer(s): Yuguo Chen, University of Illinois at Urbana-Champaign

Chair(s): Yuguo Chen, University of Illinois at Urbana-Champaign

- 10:35 a.m. **Espousing Modern Computation with Classical Statistics: Sufficiency, Ancillarity, and a New Generation of MCMC**—◆Xiao-Li Meng, Harvard University
- 11:00 a.m. **Conditional Inference in Log-Linear Models: Exact Calculation versus Monte Carlo Approximation**—◆James Booth, Cornell University
- 11:25 a.m. **Constrained Sequential Monte Carlo (CSMC)**—◆Rong Chen, National Science Foundation
- 11:50 a.m. **Sequential Monte Carlo for Estimating Ratio of Normalizing Constants**—◆Arnaud Doucet, The University of British Columbia
- 12:15 p.m. **Floor Discussion**

520 CC-303 ● ⊛ **Classification of Data with a Large Number of Polychotomous Variables—Invited**

Classification Society of North America, Section on Physical and Engineering Sciences

Organizer(s): I-Li Lu, The Boeing Company

Chair(s): Stephen P. Jones, The Boeing Company

- 10:35 a.m. **Similarity Index for Polychotomous Variables**—◆Ranjan K. Paul, Boeing Math Group; I-Li Lu, The Boeing Company

- 11:00 a.m. **Learning Accurate Probability Estimates: Why and How?**—◆Dragos D. Margineantu, The Boeing Company; Roman D. Fresnedo, The Boeing Company
- 11:25 a.m. **Assessing the Risk of Classification Decisions**—◆Roman D. Fresnedo, The Boeing Company; Dragos D. Margineantu, The Boeing Company
- 11:50 a.m. **Disc: Sabyasachi Basu, The Boeing Company**
- 12:10 p.m. **Floor Discussion**

521 CC-310 ● ⊛ **Semiparametric and Nonparametric Modeling and Goodness-of-Fit Tests for Longitudinal Data—Invited**

WNAAR, Biometrics Section, Section on Nonparametric Statistics

Organizer(s): Annie Qu, Oregon State University

Chair(s): Annie Qu, Oregon State University

- 10:35 a.m. **Analysis of Longitudinal Data with Semiparametric Estimation of Covariance Function**—◆Runze Li, The Pennsylvania State University; Jianqing Fan, Princeton University; Tao Huang, Yale University
- 11:00 a.m. **Bayesian Model Assessment Using Pivotal Quantities**—◆Valen Johnson, M. D. Anderson Cancer Center
- 11:25 a.m. **Consistent Model Selection and Goodness-of-Fit Test for Marginal Regression Analysis of Longitudinal Data**—◆Lan Wang, University of Minnesota; Annie Qu, Oregon State University
- 11:50 a.m. **Semiparametric Modeling in Applications**—◆Naisyin Wang, Texas A&M University
- 12:15 p.m. **Floor Discussion**

522 CC-3A ● **What Makes a Successful Career in Statistics? Ruminations and Advice from Veteran Statisticians Who Have Made Major Contributions over the Long Haul—Invited**

Social Statistics Section, Section on Statistical Education

Organizer(s): Jai Choi, National Center for Health Statistics

Chair(s): Fritz J. Scheuren, National Opinion Research Center

- 10:35 a.m. **Good (?) Advice for Young Statisticians**—◆Robert V. Hogg, The University of Iowa
- 11:00 a.m. **Why Some Statisticians Never Die or Fade Away: Reflections on the Career of Joe Waksberg**—◆David Morganstein, Westat; Daniel Levine, Westat; Ed Bryant; Graham Kalton, Westat

11:25 a.m. **A Personal '10 Commandments' for a Successful Career in Biostatistics**—❖ Theodore Colton, Boston University

11:50 a.m. Disc: Paul S. Levy, RTI International

12:10 p.m. **Floor Discussion**

523 CC-616 ● ⊕ **Statistical Issues in Emerging Areas in Cancer Research—Invited**

Biometrics Section, WNAR, ENAR

Organizer(s): Shili Lin, The Ohio State University; Jaya M. Satagopan, Memorial Sloan-Kettering Cancer Center

Chair(s): Shili Lin, The Ohio State University

10:35 a.m. **DNA Methylation, Aging, and Cancer**—
❖ Kimberly Siegmund, University of Southern California; Paul Marjoram, University of Southern California; Darryl Shibata, University of Southern California

11:00 a.m. **Molecular Classification of Prostate Tumors**—
❖ Jaya M. Satagopan, Memorial Sloan-Kettering Cancer Center

11:25 a.m. **Composite MicroRNA Target Predictions and Comparisons of Several Prediction Algorithms**—
❖ Jin Zhou, The Ohio State University; Vincent Melfi, Michigan State University; Joe Verducci, The Ohio State University; Shili Lin, The Ohio State University

11:50 a.m. Disc: Terence P. Speed, University of California, Berkeley

12:10 p.m. **Floor Discussion**

524 CC-3B ● **Statistical Models of Natural Language Text—Invited**

IMS, Section on Statisticians in Defense and National Security

Organizer(s): Michael Collins, Massachusetts Institute of Technology

Chair(s): Christopher Genovese, Carnegie Mellon University

10:35 a.m. **Structured Prediction Problems in NLP**—
❖ Michael Collins, Massachusetts Institute of Technology

11:20 a.m. **Statistical Approaches for Machine Translation**—
❖ Dan Klein, University of California, Berkeley

12:05 p.m. **Floor Discussion**

525 CC-608 ● **Population-Based Genetic Association Studies: Using Genetics/Genomics To Advance Public Health—Invited**

Section on Statistics in Epidemiology, Section on Health Policy Statistics, WNAR, ENAR

Organizer(s): Philip S. Rosenberg, National Cancer Institute

Chair(s): Philip S. Rosenberg, National Cancer Institute

10:35 a.m. **Gene-Environment Interaction: Implications for Public Health and Methodological Challenges**—
❖ Ramal Moonesinghe, Centers for Disease Control and Prevention; Muin Khoury, Centers for Disease Control and Prevention

10:55 a.m. **Candidate Gene Association Studies: Power and Sample Size Requirements**—❖ Bingshu E. Chen, National Cancer Institute; Philip S. Rosenberg, National Cancer Institute

11:15 a.m. **Diversity of Haplotype Configurations in the Human Genome: Implications for Genome-Wide Association Studies**—❖ Shuying S. Li, Fred Hutchinson Cancer Research Center

11:35 a.m. **Risk Estimation in Persons at Genetic Risk of Cancer**—❖ Sining Chen, The Johns Hopkins Bloomberg School of Public Health; Edwin S. Iversen, Jr., Duke University; Giovanni Parmigiani, The Johns Hopkins University

11:55 a.m. Disc: Mitchell H. Gail, National Cancer Institute

12:15 p.m. **Floor Discussion**

526 CC-609 ● **Survival Analysis with Medical Applications: Parametric and Nonparametric Adjustment for Survival Function—Invited**

Biopharmaceutical Section, Biometrics Section, ENAR, WNAR

Organizer(s): Chaofeng Liu, Eli Lilly and Company

Chair(s): Chaofeng Liu, Eli Lilly and Company

10:35 a.m. **Evaluating the Added Value of an Expensive Marker in Predicting Survival**—❖ Tianxi Cai, Harvard University

11:00 a.m. **Adjusted Nelson-Aalen Estimator with Inverse Probability of Treatment Weighting**—❖ Jun Xie, Purdue University; Chaofeng Liu, Eli Lilly and Company

11:25 a.m. **Split Point Estimation for Logistic Regression**—
❖ Ian McKeague, Columbia University

11:50 a.m. Disc: Gang Li, University of California, Los Angeles

12:10 p.m. **Floor Discussion**

GENERAL PROGRAM SCHEDULE

⊛ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

Invited Panels 10:30 a.m.–12:20 p.m.

527 CC-2A ● ⊛ **Misuse of Statistical Methodology—Invited**

Committee on Applied Statisticians, Section on Statistical Education, Section on Statistical Consulting, Section on Teaching Statistics in the Health Sciences

Organizer(s): Joyce N. Orsini, Fordham University

Chair(s): Joyce N. Orsini, Fordham University

Panelists: ❖ Gipsie B. Ranney, Belmont University
❖ Michael Tveite, Guidant Corporation
❖ Ian S. Bradbury, Peaker Services, Inc.

12:15 p.m. Floor Discussion

Topic-Contributed Sessions 10:30 a.m.–12:20 p.m.

528 CC-613 ● **Assessing Treatment Effect in Cardiovascular Medical Device Clinical Trials—Topic-Contributed**

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): Lilly Yue, U.S. Food and Drug Administration; Peter S. Lam, Boston Scientific Corporation

Chair(s): Yao Huang, U.S. Food and Drug Administration

10:35 a.m. **Using Different Multiple Imputation Strategies in Estimating Treatment Effects in Drug-Eluting Stent Trials**—❖ Liang Li, Boston Scientific Corporation; Helen Chmiel, Boston Scientific Corporation; Hong Wang, Boston Scientific Corporation

10:55 a.m. **Survival Analysis of Repeated Events in Drug-Eluting Stent Trials**—❖ Yongyi Yu, Boston Scientific Corporation; Jian Huang, Boston Scientific Corporation; Brian Johnson, Boston Scientific Corporation; Hong Wang, Boston Scientific Corporation

11:15 a.m. **Bootstrap Generalized Estimating Equation for Treatment Differences for Randomization Trials with Correlated Data**—❖ Duo Zhou, Medtronic, Inc.; Zengri Wang, Medtronic, Inc.

11:35 a.m. **Gender by Treatment Interaction on Coronary Lesion Revascularization in Drug-Eluting Stent Trials**—❖ Zheng Zhou, Boston Scientific Corporation; Liang Li, Boston Scientific

Corporation; Hong Wang, Boston Scientific Corporation

11:55 a.m. Disc: Heng Li, Center for Devices and Radiological Health

12:15 p.m. Floor Discussion

529 CC-201 **New Technology for Data Collection—Topic-Contributed**

Section on Government Statistics

Organizer(s): Michael P. Cohen, Bureau of Transportation Statistics

Chair(s): Kennon Copeland, IMS Health

10:35 a.m. **The Impact of Using Hand-Held Computers To Reduce Count Imputation in the 2004 Census Test**—❖ Jamie Burnham, U.S. Census Bureau; Rosemary Byrne, U.S. Census Bureau

10:55 a.m. **Staffing and Infrastructure Issues Related to Hand-Held Computer-Based Data Collection in the 2004 Nonresponse Follow-up Operation**—❖ Darlene Moul, U.S. Census Bureau; Geraldine Burt, U.S. Census Bureau

11:15 a.m. **Electronic Wage Reporting Customer Satisfaction: a Good News Case Study**—❖ Stephen Dienstfrey, Schulman, Ronca & Bucuvalas, Inc.; Michael Greenberg, U.S. Social Security Administration

11:35 a.m. **Evaluating the Collection of Global Positioning System Coordinates with Hand-Held Computers in the 2004 Census Test**—❖ Diane Barrett, U.S. Census Bureau; Doug Olson, U.S. Census Bureau

11:55 a.m. Disc: Walter W. Hill, St. Mary's College of Maryland

12:15 p.m. Floor Discussion

530 CC-307 ⊛ **Statistics of Extremes—Topic-Contributed**

IMS

Organizer(s): Liang Peng, Georgia Institute of Technology

Chair(s): Tailen Hsing, The Ohio State University

10:35 a.m. **Dependence Estimation and Prediction in Max-Stable Random Fields**—❖ Daniel Cooley, Colorado State University; Philippe Naveau, Laboratoire des Sciences du Climat et de l'Environnement; Richard Davis, Colorado State University

10:55 a.m. Analyzing the Extreme Behavior of Large-Scale Meteorological Variables Found To Have Influence on Severe Storms and Tornadoic Events Using Global Reanalysis Data—✦Eric Gilleland, National Center for Atmospheric Research; Matt Pocerlich, National Center for Atmospheric Research

11:15 a.m. Variance Reduction in Multiparameter Likelihood Models—✦Liang Peng, Georgia Institute of Technology; Ming-Yen Cheng, National Taiwan University

11:35 a.m. Bootstrap Confidence Band for Dependence Functions in Extreme-Value Statistics—
✦Yongcheng Qi, University of Minnesota, Duluth; Liang Peng, Georgia Institute of Technology

11:55 a.m. Asymptotically (In)dependent Multivariate Maxima of Moving Maxima Processes—
✦Zhengjun Zhang, University of Wisconsin-Madison

12:15 p.m. Floor Discussion

531 CC-607

● Bayesian Biostatistical Modeling—Topic-Contributed

Section on Bayesian Statistical Science, Biometrics Section, WNAR, ENAR

Organizer(s): Li-Jung Liang, University of California, Los Angeles

Chair(s): Kaushik Ghosh, New Jersey Institute of Technology

10:35 a.m. A Bayesian Adaptive Design for Two Drug Combination Phase I Clinical Trials—✦Lu-May Chiang, University of California, Los Angeles; William G. Cumberland, University of California, Los Angeles

10:55 a.m. A Bayesian Model Selection Approach for Simultaneous Clustering of Treatment Intercepts and Slopes—✦Susan Alber, University of California, Los Angeles; Robert Weiss, University of California, Los Angeles

11:15 a.m. Hierarchical Zero-Inflated Poisson Models—
✦Warren Comulada, Center for Community Health; Robert Weiss, University of California, Los Angeles

11:35 a.m. Using a Bayesian Phylogenetic Dual Change-Point Model To Detect HIV-1 Intra-host Recombination—
✦Erik Bloomquist, University of California, Los Angeles; Christina Kitchen, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles; Vladimir N. Minin, University of California, Los Angeles; Hua Guo, University of California, Los Angeles

11:55 a.m. Hierarchical Post-Processing of Longitudinal Bayesian Phylogenetic Analyses Using Semiparametric Regression Models—✦Li-Jung Liang, University of California, Los Angeles; Robert Weiss, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles

12:15 p.m. Floor Discussion

532 CC-602

⊕ Applications of Modeling and Simulation for Homeland Security—Topic-Contributed

Section on Statisticians in Defense and National Security

Organizer(s): David Banks, Duke University

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

10:35 a.m. Modeling the Interaction between Intelligent Site Selection and Other Stochastic Processes with Applications to Terrorism—✦Michael Porter, University of Virginia; Charles D. Robinson, University of Virginia; Donald E. Brown, University of Virginia

10:55 a.m. Issues in the Analysis of Combat Data—
✦Michael Last, National Institute of Statistical Sciences

11:15 a.m. Strategies for Validating Complex Simulations—
✦David Banks, Duke University

11:35 a.m. The Brave New World of Designing Simulation Experiments for Defense and Homeland Security Applications—✦Thomas W. Lucas, Naval Postgraduate School; Susan M. Sanchez, Naval Postgraduate School

11:55 a.m. Disc: Sarah Michalak, Los Alamos National Laboratory

12:15 p.m. Floor Discussion

533 CC-2B

⊕ Record Linkage—Topic-Contributed

Section on Survey Research Methods, Section on Statisticians in Defense and National Security

Organizer(s): William E. Winkler, U.S. Census Bureau

Chair(s): Thomas Herzog, U.S. Department of Housing and Urban Development

10:35 a.m. Automatically Estimating Record Linkage False Match Rates—✦William E. Winkler, U.S. Census Bureau; William E. Yancey, U.S. Census Bureau

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- 10:55 a.m. **Record Linkage and Automatic Maintenance Activities**—◆ Holly Smith, U.S. Department of Agriculture; Denise Abreu, National Agricultural Statistics Service; Kara Daniel, National Agricultural Statistics Service; Stan Hoge, National Agricultural Statistics Service; Bill Iwig, National Agricultural Statistics Service
- 11:15 a.m. **A Study of String Comparator Performance on Census Name Data**—◆ William E. Yancey, U.S. Census Bureau
- 11:35 a.m. **A Comparison of Big Match and the Current NDI Record Selection System Using Artificial Data**—◆ Bryan Sayer, Social & Scientific Systems, Inc.
- 11:55 a.m. **Using Test Databases To Evaluate Record Linkage Models and Train Linkage Practitioners**—◆ Michael H. McGlincy, Strategic Matching, Inc.
- 12:15 p.m. **Floor Discussion**

Regular Contributed Sessions

10:30 a.m.–12:20 p.m.

534 CC-203

● Survey-Based Estimation VI—Contributed

Section on Survey Research Methods

Chair(s): James Chromy, RTI International

- 10:35 a.m. **Detection Method for the Sources of Change in Estimations**—◆ Serge Godbout, Statistics Canada
- 10:50 a.m. **Model-Based Approach in Two-Stage Sampling of Audit Data**—◆ Yan Liu, National Opinion Research Center; Mary Batcher, Ernst & Young LLP
- 11:05 a.m. **Confidence Interval Coverage in Stratified Sample Design**—◆ Jinhee Yang, Ernst & Young LLP; Wendy Rotz, Ernst & Young LLP
- 11:20 a.m. **Evaluating a Calibration Weighting Scheme for Elementary Indexes for Commodities and Services in the U.S. Consumer Price Index**—◆ Sylvia G. Leaver, Bureau of Labor Statistics; Robert A. Cage, Bureau of Labor Statistics; Darin T. Solk, Bureau of Labor Statistics
- 11:35 a.m. **Comparing Procedures To Estimate the Measure of Heteroscedasticity and Their Effect on Estimating Totals and Their Variances**—◆ Kimberly Henry, Internal Revenue Service; Richard Valliant, University of Michigan

- 11:50 a.m. **Power-Shrink Excessive Weights Preferred to Trimming**—Naihua Duan, University of California, Los Angeles; Xiao-Li Meng, Harvard University; ◆ Chihnan Chen, Boston University; Margarita Alegria, Cambridge Health Alliance
- 12:05 p.m. **Confidence Interval Coverage in Complex Model-Based Estimation with Deep Stratification**—◆ Archana Joshee, Ernst & Young LLP; Wendy Rotz, Ernst & Young LLP

535 CC-606

Bayesian and Empirical Bayesian Models—Contributed

Section on Bayesian Statistical Science

Chair(s): Lei Qian, University of California, Los Angeles

- 10:35 a.m. **The Analysis of Fluctuating Asymmetry as a Measure of Developmental Instability**—◆ Stefan Van Dongen, University of Antwerp
- 10:50 a.m. **Empirical Bayes Decision Rule for Classification Using Unsupervised Learning**—◆ Shui-Ching Chang, The Oversea Chinese Institute of Technology; Tze-Fen Li, National Chung Hsing University
- 11:05 a.m. **Bayesian Parameter Estimation of Stable Distributions**—◆ Ece Oral, Hacettepe University; Cenap Erdemir, Hacettepe University
- 11:20 a.m. **Bayesian Analysis and Model Selection in Closed-Population, Capture-Recapture Models**—◆ Ross Gosky, Bucknell University
- 11:35 a.m. **Estimation of Parameter Covariance for a Penalized Likelihood Approach to Estimation of Kinetic Models in PET (Positron Emission Tomography)**—◆ Michelle Byrtek, Western Washington University; Finbarr O'Sullivan, University College Cork
- 11:50 a.m. **Empirical Bayes Estimation for Additive Hazards Regression Models**—◆ M. Brent McHenry, Bristol-Myers Squibb Company; Debajyoti Sinha, Medical University of South Carolina; Stuart Lipsitz, Brigham and Women's Hospital; Malay Ghosh, University of Florida
- 12:05 p.m. **Floor Discussion**

536 CC-204 Data Collection and Missing Data Issues in Health Surveys—Contributed

Section on Health Policy Statistics

Chair(s): Carolyn Rutter, Group Health Cooperative

- 10:35 a.m. **A New Method To Evaluate the Completeness of Case Ascertainment by a Cancer Registry—**
❖ Barnali Das, National Cancer Institute; Limin X. Clegg, National Cancer Institute; Eric J. Feuer, National Cancer Institute; Linda Pickle, National Cancer Institute
- 10:50 a.m. **The Early Release Program of the U.S. National Health Interview Survey—**❖ Jeannine Schiller, National Center for Health Statistics; Jane Gentleman, National Center for Health Statistics; Eve Powell-Griner, National Center for Health Statistics
- 11:05 a.m. **Providing Health Information to the Public: Analysis of National Audience Data for Public Health Communication Planning—**❖ William Pollard, Centers for Disease Control and Prevention
- 11:20 a.m. **Measuring Menses: Issues with Patient-Reported Menstrual Cycle Assessment—**❖ Stephanie Land, University of Pittsburgh; Gina Sucato, Children's Hospital; Marcie Ritter, University of Pittsburgh; Reena Cecchini, University of Pittsburgh; Sandra Swain, National Cancer Institute; Patricia Ganz, University of California, Los Angeles
- 11:35 a.m. **Childhood Obesity: What's the Mother's Marital Status Got to Do with It?—**❖ Soma Roy, The Ohio State University; Elizabeth Stasny, The Ohio State University
- 11:50 p.m. **Floor Discussion**

537 CC-205 ● Small-Area Estimation—Contributed

Section on Survey Research Methods

Chair(s): Georgia Roberts, Statistics Canada

- 10:35 a.m. **Accounting for Interviewer Variability in Small-Area Estimation—**❖ Benmei Liu, Westat; Partha Lahiri, University of Maryland
- 10:50 a.m. **Using Administrative Records with Model-Assisted Estimation for the American Community Survey—**❖ Robert Fay, U.S. Census Bureau
- 11:05 a.m. **Small-Area Prevalence Estimates Using Two Surveys—**❖ William Davis, National Cancer

- Institute; Charuta Soman, IMS Health; Zhaohui Zou, Information Management Services, Inc.
- 11:20 a.m. **Interval Estimation in Small-Area Problems—**
❖ Snigdhasu Chatterjee, University of Minnesota; Partha Lahiri, University of Maryland; Huilin Li, University of Maryland
- 11:35 a.m. **Nonparametric M-Quantile Small-Area Estimation via Penalized Splines—**❖ Monica Pratesi, Università di Pisa; Nicola Salvati, Università di Pisa; Maria G. Ranalli, University of Perugia
- 11:50 a.m. **Using Regression To Combine Information from Multiple Surveys for Small-Domain Estimation—**
❖ Takis Merkouris, Statistics Canada
- 12:05 p.m. **Using the t-Distribution in Small-Area Estimation: an Application to SAIPE State Poverty Models—**❖ Elizabeth Huang, U.S. Census Bureau; William R. Bell, U.S. Census Bureau

538 CC-612 ● ⊕ Model Diagnostics—Contributed

Section on Statistics in Epidemiology

Chair(s): Michael Pencina, Boston University

- 10:35 a.m. **Semiparametric Estimation of the ROC Surface—**
❖ Zheng Zhang, University of Washington
- 10:50 a.m. **Model Diagnostics for Generalized Linear Mixed Models Using Chi-Square Test—**❖ Zhonghua Gu, University of California, Davis
- 11:05 a.m. **Single-Sample Predictive Model Validation via Variance Components Estimated through Resampling and Cross-Validation—**❖ Michael Jones, University of Sydney; Petra Macaskill, University of Sydney
- 11:20 a.m. **Investigating the Categories for Cholesterol and Blood Pressure for Risk Assessment of Death Due to Coronary Heart Disease—**❖ Billy Franks, Jr., Astellas Pharma Inc.; Daniel McGee, Sr., Florida State University
- 11:35 a.m. **Survival and Classification Tree Analyses in Medicine: Usefulness in Identifying the Predisposing and Precipitating Health Conditions and Events Associated with Death—**
❖ Gail McAvay, Yale University; Mary Tinetti, Yale University School of Medicine; Thomas Gill, Yale University; Heather G. Allore, Yale University

GENERAL PROGRAM SCHEDULE

⊛ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

11:50 a.m. **Adjusting ROC Curves Estimation for Covariates without Gold Standard Tests**—◆ Chong Wang, Cornell University; Bruce W. Turnbull, Cornell University; Yrjö Gröhn, Cornell University; Søren Nielsen, The Royal Veterinary and Agricultural University

12:05 p.m. **Combination of Multiple Tests by Likelihood and Bayesian Approaches**—◆ Carol Lin, Bristol-Myers Squibb Company; Lance Waller, Emory University

539 CC-304 ● **Climate, Weather, and Health: Novel Applications of Spatial and Temporal Analyses—Contributed**

Section on Statistics and the Environment

Chair(s): Kristen M. Foley, North Carolina State University

10:35 a.m. **Predicting Spatial Exceedance Regions**—◆ Jian Zhang, The Ohio State University; Noel Cressie, The Ohio State University; Peter F. Craigmile, The Ohio State University

10:50 a.m. **A Geostatistical Method for Texas NexRad Data Calibration**—◆ Bo Li, Texas A&M University; Marian Eriksson, Texas A&M University; Raghavan Srinivasan, Texas A&M University; Michael Sherman, Texas A&M University

11:05 a.m. **Identifying Effect Modifiers in Air Pollution**—◆ Sandrah P. Eckel, The Johns Hopkins Bloomberg School of Public Health; Thomas A. Louis, The Johns Hopkins University

11:20 a.m. **Identifying Environmental Risk Factors of Childhood Obesity**—◆ Rong Qi, Indiana University; Gilbert Liu, Indiana University; Jeffrey Wilson, Indiana University Purdue University Indianapolis; Jun Ying, Indiana University

11:35 a.m. **Prediction of State Cancer Case Counts and Rates by Hierarchical Spatio-Temporal Models**—◆ Linda Pickle, National Cancer Institute

11:50 a.m. **Testing for Spatial Dependence Based on the SAR Model**—◆ Hongfei Li, The Ohio State University; Catherine A. Calder, The Ohio State University; Noel Cressie, The Ohio State University

12:05 p.m. **Space Time Analyses of Adverse Pregnancy Outcomes in Allegheny County, Pennsylvania**—◆ M. Abdus Sattar, University of Pittsburgh

540 CC-206 ● **Forecasting and Database Modeling in Marketing Applications—Contributed**

Section on Statistics and Marketing

Chair(s): Steve Millard, Probability, Statistics, & Information

10:35 a.m. **Some Challenges in Sales Forecasting in a Global Automotive Environment**—◆ Lynn Truss, GM Research & Development; Satish Sehgal, GM India Science Lab; Atul Saroop, GM India Science Lab; Balaji Jidugu, GM India Science Lab; Peiling Wu, GM Research & Development; Diane Gibbons, GM Research & Development

10:50 a.m. **An Empirical Analysis of Customized and Dynamic Cross-Selling Campaigns**—◆ Alan Montgomery, Carnegie Mellon University; Baohong Sun, Carnegie Mellon University; Shibo Li, Indiana University

11:05 a.m. **A New Methodology to Modeling Prospects of Corporate Database**—◆ Kangkang Xu, Experian

11:20 a.m. **Estimating Factor Effects with Data from Heterogeneous Experimental Units**—◆ Sam Weerahandi, Time Warner; Martin Koschat, Time Warner

11:35 a.m. **Hybrid GA-Based Constrained Optimization and Search for High-Potential Product Configurations**—◆ Brandon L. Paris, General Mills, Inc.; Lynd D. Bacon, Sighthound Solutions, Inc.; Jeff Hunter, General Mills, Inc.; Ashwin Sridhar, Sighthound Solutions, Inc.

11:50 a.m. **Falling into the Data Mine: Nontechnical Errors for Database Model Builders**—◆ Sam Koslowsky, Harte Hanks CRM Analytics

12:05 p.m. **Churn Modeling in a Noncontractual Setting**—◆ Enping Mai, Syracuse University; Raja Velu, Syracuse University

541 CC-611 ● **Repeated Measures and Longitudinal Data—Contributed**

Biopharmaceutical Section, Biometrics Section, ENAR

Chair(s): Irina Kats, BIM, Inc.

10:35 a.m. **A Multivariate Truncated Model Combined with Multiple Imputation for Longitudinal Data with Nonignorable Missing**—◆ Rong Liu, Merck & Co., Inc.; Viswanathan Ramakrishnan, Virginia Commonwealth University

- 10:50 a.m. Analysis of Longitudinal Trials with Non-MCAR Dropouts and Potentially Non-Normal Data: Is Weighted GEE the Solution?**—❖ Robin Mogg, Merck Research Laboratories; Devan V. Mehrotra, Merck Research Laboratories
- 11:05 a.m. Analysis of Repeated Measures Random Length Data**—❖ Ana-Maria Iosif, University of Pittsburgh; Allan R. Sampson, University of Pittsburgh
- 11:20 a.m. Jointly Modeling the Dropout Process and Repeated Categorical Outcome**—❖ Yuting Zhang, MedFocus; Brent J. Shelton, University of Kentucky
- 11:35 a.m. Inference for Skew-Normal Data Using Stochastic Hellinger Distance Method and Stochastic MLE**—❖ Serena Chan, Cornell University; Anand Vidyashankar, Cornell University
- 11:50 a.m. Identifying Worsening MS Patients Using a Generalized Mahalanobis Distance Metric**—❖ Daniel Bonzo, Serono, Inc.
- 12:05 p.m. Distributions of Patterns in Markov Chains with Stopping Rules**—❖ Francis Hsuan, Temple University; Milton Parnes, Temple University; Thomas E. Bradstreet, Merck Research Laboratories

542 **CC-604**
● Principal Components, Predication, and Optimization—Contributed

Business and Economics Statistics Section

Chair(s): Kellie Wills, U.S. Census Bureau

- 10:35 a.m. Likelihood-Based Estimate for the Number of Principal Components**—❖ Lifang Hsu, Le Moyne College; Pinyuen Chen, Syracuse University
- 10:50 a.m. Long Run Canonical Correlations: Estimation, Inference, and Usefulness in Econometric Analysis of Time Series**—❖ Kalidas Jana, Trinity University; Alastair R. Hall, North Carolina State University
- 11:05 a.m. Ex Post and Ex Ante Prediction of Unobserved Multivariate Time Series: a Structural Model-Based Approach**—❖ Fabio Nieto, National University of Colombia
- 11:20 a.m. Model-Based Sequence Clustering with Application to Resource Pattern Identification in B2B Services Engagements**—❖ Bonnie K. Ray, IBM T. J. Watson Research Center; Jianying Hu, IBM Research

- 11:35 a.m. Applications of Direct Search Optimization Methods**—❖ Otto Schwalb; Timothy H. Lee
- 11:50 a.m. Preliminary Micro Data Results from the Business List Comparison Project**—❖ Lucia Foster, U.S. Census Bureau; Joel Elvery, Bureau of Labor Statistics; C. J. Krizan, U.S. Census Bureau; David Talan, Bureau of Labor Statistics
- 12:05 p.m. Establishment Survival Using the BLS Longitudinal Database**—❖ Merissa Piazza, Bureau of Labor Statistics

543 **CC-618**
Inference for Parameters of Continuous Distribution—Contributed

Biometrics Section

Chair(s): Patches Johnson, Roanoke College

- 10:35 a.m. Bias-Corrected Point and Interval Estimates for Lognormal Mean**—❖ Abu Minhajuddin, The University of Texas Southwestern Medical Center at Dallas; Xian-Jin Xie, The University of Texas Southwestern Medical Center at Dallas
- 10:50 a.m. Preliminary Test Estimator for the Mean of Bivariate Normal**—❖ Xiaoping Zhu, Novartis Pharmaceuticals Corporation; Chien-Pai Han, The University of Texas at Arlington
- 11:05 a.m. Inferences on Correlation Coefficients: One-Sample, Independent, and Correlated Cases**—Kalimuthu Krishnamoorthy, University of Louisiana at Lafayette; ❖ Yanping Xia, University of Louisiana at Lafayette
- 11:20 a.m. A New Approach for a Linear Combination of K Multinormal Mean Vectors**—❖ Shu-Hui Lin, National Taichung Institute of Technology; Jack C. Lee, National Chiao Tung University
- 11:35 a.m. Estimation of Multivariate Normal Secondary Parameters in Group Sequential Trials**—❖ Kai Fun Yu, National Institute of Child Health & Human Development; Chengqing Wu, National Institute of Child Health & Human Development; Aiyi Liu, National Institute of Child Health & Human Development
- 11:50 a.m. The Median Test for Cluster-Correlated Data**—❖ Rick L. Williams, RTI International; Angela Pitts, RTI International
- 12:05 p.m. Bivariate Growth Charts**—❖ Ying Wei, Columbia University

GENERAL PROGRAM SCHEDULE

⊕ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

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● Applications of Statistical Graphics—Contributed

Section on Statistical Graphics

Chair(s): *Weijie Cai, George Mason University*

10:35 a.m. **Importing Graphics for Statistical Plots**—❖ Paul Murrell, The University of Auckland

10:50 a.m. **An Implemetation of the Grammar of Graphics in R: ggplot**—❖ Hadley Wickham, Iowa State University

11:05 a.m. **Visualization Challenges in Internet Traffic Research**—❖ Cheolwoo Park, University of Georgia

11:20 a.m. **What Can Match 'a Daisy a Day?'**—❖ Rachel Graham, Iowa State University; Heike Hofmann, Iowa State University

11:35 a.m. **Design Strategies for Sampling in Graphs**—❖ James Rosenberger, The Pennsylvania State University; Hong Xu, The Pennsylvania State University; Steve Thompson, Simon Fraser University

11:50 a.m. **Advanced Sequential Sampling Methods and Their Implementation within a Portable Computing Environment**—❖ Arunava Chakravartty, University of California, Riverside; Daniel R. Jeske, University of California

12:05 p.m. **Floor Discussion**

545

● Semi- and Nonparametric Methods—Contributed

Biometrics Section, Section on Nonparametric Statistics

Chair(s): *Trevor Park, University of Florida*

10:35 a.m. **Improving the Efficiency of the Log-Rank Test Using Auxiliary Covariates**—❖ Xiaomin Lu, North Carolina State University; Anastasios A. Tsiatis, North Carolina State University

10:50 a.m. **Fitting Density Function with Exponential Polynomials**—❖ Eugene Demidenko, Dartmouth Medical School

11:05 a.m. **U-Statistics for Right-Censored Data**—❖ Dipankar Bandyopadhyay, University of Georgia

11:20 a.m. **Extension of the Rank Sum Test for Clustered Data: Two Group Comparisons with Group Membership Defined at the Subunit Level**—

CC-619

❖ Bernard Rosner, Harvard Medical School; Robert Glynn, Brigham and Women's Hospital; Mei-Ling Ting Lee, Harvard Medical School

11:35 a.m. **Outputation Permutation: Exact Inference for Complex Clustered Data**—❖ Dean A. Follmann, National Institute of Allergy and Infectious Diseases; Michael P. Fay, National Institute of Allergy and Infectious Diseases

11:50 a.m. **A New Semiparametric Regression Approach for Modeling Group Differences**—❖ Qin Yu, University of Rochester; Xin Tu, University of Rochester

12:05 p.m. **Floor Discussion**

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Multiple Comparisons and Testing—Contributed

Biometrics Section

Chair(s): *Yongming Qu, Eli Lilly and Company*

10:35 a.m. **The Combined P-Value for Detecting Differentially Expressed Genes from High Density Oligonucleotide Arrays**—❖ Ann Hess, Colorado State University; Hari Iyer, Colorado State University

10:50 a.m. **A Two-Step Multiple Comparison Procedure for a Large Number of Tests and Multiple Treatments**—❖ Hongmei Jiang, Northwestern University; Rebecca W. Doerge, Purdue University

11:05 a.m. **Optimality Results for the Bonferroni Method with Large m** —❖ Yonggang Lu, Texas Tech University; Peter Westfall, Texas Tech University

11:20 a.m. **Control of the Family-Wise Error Rate for Multiple Correlated Test Outcomes: the Effect of Stress on Cytokine Production Prior to Spaceflight**—❖ Alan Feiveson, National Aeronautics and Space Administration; Satish Mehta, Enterprise Advisory Services, Inc.; Duane L. Pierson, NASA Johnson Space Center

11:35 a.m. **Effects of Dependencies in High-Dimensional Multiple Testing Problems**—❖ Kyung In Kim, Eindhoven University of Technology; Mark A. van de Wiel, Eindhoven University of Technology

11:50 a.m. **Hypothesis Testing of High-Dimensional Data with Applications to Medical Image Analysis**—❖ Kun Nie, Boehringer Ingelheim

12:05 p.m. **Floor Discussion**

CC-615

547 **CC-617**
● Hypothesis Testing in Genetics—Contributed

Biometrics Section, ENAR

Chair(s): Rajagopalan Srinivasan, INC Research/INC Data Spectrum, Inc.

- 10:35 a.m. Testing Hardy-Weinberg Equilibrium for Loci on the X Chromosome**—Gang Zheng, National Heart, Lung, and Blood Institute; ❖ Jungnam Joo, National Institutes of Health; Chun Zhang, Roche Palo Alto LLC; Nancy L. Geller, National Heart, Lung, and Blood Institute
- 10:50 a.m. A Conditional Test for Finding the Variants that Explain the Evidence for Association**—❖ Baoguan Ke, The University of Chicago
- 11:05 a.m. Improved Association Analyses of Disease Subtypes in Case-Parent Trio Studies**—❖ Glen Satten, Centers for Disease Control and Prevention; Michael Epstein, Emory University; Irwin Waldman, Emory University
- 11:20 a.m. Analysis of DNA Gene Sequences with the Smith-Waterman Algorithm**—❖ William Owen, University of Richmond
- 11:35 a.m. A New Approach To Performing Segregation Analysis To Detect Imprinting**—❖ Sanjay Shete, M. D. Anderson Cancer Center
- 11:50 a.m. Missing Genotypes in TDT**—❖ Gulhan Alpargu, California State University, Fullerton
- 12:05 p.m. Analysis of a Probe-Level Linear Mixed Model for Oligonucleotide Arrays**—❖ Alexander Cambon, University of Louisville; Caryn Thompson, University of Louisville; Brian Wattenberg, University of Louisville

548 **CC-610**
● Step Up, Step Down Multiple Comparisons—Contributed

Biopharmaceutical Section

Chair(s): Mary J. Bartholomew, U.S. Food and Drug Administration

- 10:35 a.m. A Non-Bonferroni Step-Up Rejection Procedure**—❖ Jianjun Li, Merck Research Laboratories
- 10:50 a.m. Gatekeeping Procedures for Dose-Finding Problems with Multiple Endpoints**—❖ Xin Wang, Northwestern University
- 11:05 a.m. Comparison of Two Step-Down Linear Trend Tests**—❖ Kaifeng Lu, Merck & Co., Inc.

- 11:20 a.m. A New Gatekeeping Strategy for Hierarchical-Structured Hypotheses in Clinical Trials**—❖ Junyuan Wang, The Medicines Company; Yan Zheng, University of Minnesota; Guanghan Liu, Merck Research Laboratories
- 11:35 a.m. Hochberg's Step-Up Method: Cutting Corners off Holm's Step-Down Method**—❖ Yifan Huang, H. Lee Moffitt Cancer Center & Research Institute; Jason Hsu, The Ohio State University
- 11:50 a.m. Testing the Assumption in Several Amalgamation-Based Tests for Dose Response**—❖ Arthur Roth, Pfizer Inc.
- 12:05 p.m. Exploring Dose Response in Flexible-Dose Clinical Trials Using Marginal Structural Models: a Clinical Trial Example**—❖ Ilya Lipkovich, Eli Lilly and Company; Craig Mallinckrodt, Eli Lilly and Company; Douglas Faries, Eli Lilly and Company

549 **CC-308**
Better Statistical Intervals with Applications—Contributed

Section on Physical and Engineering Sciences

Chair(s): Kevin Coakley, National Institute of Standards and Technology

- 10:35 a.m. Adjusting Likelihood Ratio Confidence Intervals for Parameters near Boundaries Applied to the Binomial**—❖ Sundar Dorai-Raj, PDF Solutions, Inc.; Spencer Graves, PDF Solutions, Inc.
- 10:50 a.m. Parametric 95%–95% Upper Tolerance Limits for Left-Censored Lognormal Data**—❖ Charles Davis, EnviroStat
- 11:05 a.m. Estimating the Variance of the Graybill-Deal Estimator of a Common Mean**—❖ Nien Fan Zhang, National Institute of Standards and Technology
- 11:20 a.m. Revisiting Beal's Confidence Intervals for the Difference of Two Binomial Proportions**—❖ Joshua M. Tebbs, University of South Carolina; Scott Roths, The Pennsylvania State University
- 11:35 a.m. Normal Approximations for Computing Confidence Intervals for Log-Location-Scale Distribution Probabilities**—❖ Yili Hong, Iowa State University; William Q. Meeker, Jr., Iowa State University; Luis A. Escobar, Louisiana State University

GENERAL PROGRAM SCHEDULE

⊛ Themed Session ● Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

11:50 a.m. **Simulation Results To Assess Upper Tolerance Interval Methodology That Adjusts for Multiple Nuisance Uncertainties**—Greg Piepel, Battelle-PNNL; ◆ Scott Cooley, Battelle; Matthew Paul, Western Washington University

12:05 p.m. **Floor Discussion**

550 CC-211

● ⊛ **Anxiety, Ambiguity, and Multiculturalism in Statistical Education—Contributed**

Section on Statistical Education

Chair(s): David Swanson, University of Mississippi

10:35 a.m. **Ambiguity Intolerance: an Impediment to Inferential Reasoning?**—◆ Robert Carver, Stonehill College

10:50 a.m. **Stochastics Learning Environment: Can a Professor Identify and Displace Student Statistical Anxiety?**—◆ Daniel Edelman, Illinois Institute of Technology

11:05 a.m. **Investigating Communication within a Multitiered Instructional Team**—◆ Marian Frazier, The Ohio State University; Jackie Miller, The Ohio State University

11:20 a.m. **Can You Explain That in Plain English? Making Statistics Group Projects Work in a Multicultural Setting**—◆ Michelle R. Sisto, International University of Monaco

11:35 a.m. **Balancing Cultural Differences in Teaching Statistics**—◆ Huizhen Guo, Xavier University

11:50 a.m. **A Window on Statistical Education at the University of Lagos, Lagos, Nigeria**—◆ Raymond Okafor, University of Lagos

12:05 p.m. **Floor Discussion**

551 CC-601

Classification—Contributed

Section on Statistical Computing

Chair(s): Samuel Buttrey, Naval Postgraduate School

10:35 a.m. **Evidence Contrary to the Statistical View of Boosting**—◆ David Mease, San Jose State University

10:50 a.m. **Adaptive Learning Rate in Stochastic Boosting**—◆ Mark Culp, University of Michigan; George Michailidis, University of Michigan; Kjell Johnson, Pfizer Inc.

11:05 a.m. **Use of Projection Pursuit in Classification**—◆ Li Li, George Mason University; James Gentle, George Mason University

11:20 a.m. **Tuned and Guided Adaptive Regression by Mixing**—◆ Panayotis Giannakouros, University of Missouri-Kansas City; Lihua Chen, The University of Toledo

11:35 a.m. **Floor Discussion**

552 CC-620

● **Rank-Based Statistical Methods—Contributed**

Section on Nonparametric Statistics

Chair(s): Xiaobin Yuan, St. Jude Children's Research Hospital

10:35 a.m. **One-Sample and Multisample Tests for Repeated Measurement**—◆ Chien-Hua Wu, Chung-Yuan Christian University; Shu-Mei Wan, Lunghwa University of Science and Technology; Hon-Ron Lin, Chung-Yuan Christian University

10:50 a.m. **Test-Based Classification Rule: a Linkage between Classification and Statistical Testing**—◆ Shu-Min Liao, The Pennsylvania State University; Michael G. Akritas, The Pennsylvania State University

11:05 a.m. **Bayesian Hypothesis Testing Using Nonparametric Statistics**—◆ Ying Yuan, M. D. Anderson Cancer Center; Valen Johnson, M. D. Anderson Cancer Center

11:20 a.m. **Asymptotic Efficiency of the Majority Rule Relative to Rank-Sum Method for Selecting Best Population**—◆ Samuel Wu, University of Florida; David Annis, Naval Postgraduate School

11:35 a.m. **Nonparametric Methods in Multivariate Factorial Designs**—◆ Arne Bathke, University of Kentucky; Solomon W. Harrar, South Dakota State University

11:50 a.m. **Sequential Monitoring of Randomization Tests: Theory and Calculation Discussion**—◆ Yanqiong Zhang, Merck & Co., Inc.; William Rosenberger, George Mason University

12:05 p.m. **On the Relationship between Spearman's Rho and Kendall's Tau for Extreme Order Statistics**—◆ Yung-Pin Chen, Lewis & Clark College

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