

THURSDAY, AUGUST 2

Tours

TR13 Utah Gold & Silver

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

Committee/Business Meetings & Other Activities

7:00 a.m.–10:30 a.m. CC-252 A, CC-252 B

Speaker Work Rooms

7:00 a.m.–10:30 a.m. CC-South Foyer

Cyber Center

7:30 a.m.–10:30 a.m. CC-South Foyer

JSM Main Registration and ASA Membership/Special Assistance Desk

8:00 a.m.–10:00 a.m. CC-254 C

Council of Sections Governing Board JSM Meeting, Part 1 (closed)

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

8:00 a.m.–10:30 a.m. CC-South Foyer

ASA Marketplace

8:00 a.m.–6:00 p.m. CC-Main Lobby, Level 2

Salt Lake City Visitors Information Center

10:00 a.m.–11:30 a.m. CC-254 C

Council of Sections Governing Board JSM Meeting, Part 2 (closed)

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

Invited Sessions 8:30 a.m.–10:20 a.m.

482 CC-257

⊕ The Role of the ASA in MS Statistician Careers—Invited

Committee on Membership Retention and Recruitment, ENAR, WVAR, Section on Survey Research Methods

Organizer(s): David Banks, Duke University

Chair(s): Mingxiu Hu, Millennium Pharmaceuticals, Inc.

8:35 a.m. **The Evolution of an Engineer**—❖ Matthew Pocerlich, National Center for Atmospheric Research

9:05 a.m. **Opportunities Offered by the ASA for a Statistician in a Management Role in the Pharmaceutical Industry**—❖ Jane B. Porter, Millennium Pharmaceuticals, Inc.

9:35 a.m. **Transitioning into a Career as an MS Statistician: How the ASA Can Help**—❖ Monica Johnston, University of California, San Francisco

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

483 CC-251 C

Advances in System Reliability—Invited

Section on Physical and Engineering Sciences, Section on Statisticians in Defense and National Security, Section on Risk Analysis, Section on Quality and Productivity

Organizer(s): Alyson G. Wilson, Los Alamos National Laboratory

Chair(s): Alyson G. Wilson, Los Alamos National Laboratory

8:35 a.m. **Parametric and Nonparametric Flowgraph Models with Application to Bayesian Multistate Systems Reliability**—❖ Aparna V. Huzurbazar, University of New Mexico; Brian J. Williams, Los Alamos National Laboratory; David Collins, University of New Mexico

9:05 a.m. **Integrating System Engineering Methods into Reliability Estimates**—❖ Andrew Koehler, Los Alamos National Laboratory

9:35 a.m. **Resource Allocation Strategies for Reliability of Complex Systems**—❖ Christine Anderson-Cook, Los Alamos National Laboratory

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



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● ⊛ **Statistical Validation of Surrogate Endpoints—Invited**

Biopharmaceutical Section, Biometrics Section, Committee on Applied Statisticians, WNAR

Organizer(s): Peiqi Chen, Eli Lilly and Company

Chair(s): Stacy Lindborg, Eli Lilly and Company

- 8:35 a.m. **Unified Approaches for Surrogate Marker Evaluation from Multiple Randomized Clinical Trials**—❖ Geert Molenberghs, Hasselt University
- 9:00 a.m. **Evaluating and Using Surrogate Endpoints in Clinical Trials: A Bayesian Approach**—❖ Mary K. Cowles, The University of Iowa; Qian Shi, The University of Iowa
- 9:25 a.m. **Surrogate Endpoint Validation: Statistical Elegance versus Clinical Relevance**—❖ Daniel J. Sargent, Mayo Clinic
- 9:50 a.m. **Disc: Sue-Jane Wang, U.S. Food and Drug Administration**
- 10:10 a.m. **Floor Discussion**

CC-355 F

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● ⊛ **Practical Bayesian Nonparametric Methods—Invited**

Section on Bayesian Statistical Science, Section on Nonparametric Statistics

Organizer(s): David Draper, University of California, Santa Cruz

Chair(s): Herbert Lee, University of California, Santa Cruz

- 8:35 a.m. **Bayesian Nonparametric Modeling for Well-Calibrated Location and Scale Inference with Skewed and Heavy-Tailed Data**—❖ David Draper, University of California, Santa Cruz
- 9:00 a.m. **Nonparametric Modeling for Spatial Functional Data Analysis**—❖ Alan E. Gelfand, Duke University
- 9:25 a.m. **Bayesian Semiparametric Modeling Based on Mixtures of Polya Trees**—❖ Timothy E. Hanson, The University of Minnesota
- 9:50 a.m. **Modeling with Infinitely Divisible Moving Averages**—❖ Robert L. Wolpert, Duke University
- 10:15 a.m. **Floor Discussion**

CC-151 G

485

● ⊛ **Statistics and Finance—Invited**

IMS

Organizer(s): Per A. Mykland, The University of Chicago

Chair(s): Per A. Mykland, The University of Chicago

- 8:35 a.m. **Large Dimensional Covariance Matrix Estimation for Asset Pricing and Risk Management Using a Factor Model**—❖ Jianqing Fan, Princeton University; Yingying Fan, Princeton University; Jinchi Lv, Princeton University
- 9:05 a.m. **Do Jumps Matter?**—❖ Lan Zhang, University of Illinois at Chicago
- 9:35 a.m. **Testing for Jumps in a Discretely Observed Process**—❖ Yacine Ait-Sahalia, Princeton University; Jean Jacod, Universite Pierre and Marie Curie
- 10:05 a.m. **Floor Discussion**

CC-255 E

487

● ⊛ **Profile Monitoring—Invited**

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

Organizer(s): Willis Jensen, W.L. Gore & Associates, Inc.

Chair(s): William H. Woodall, Virginia Polytechnic Institute and State University

- 8:35 a.m. **Profiles: Monitoring the Variance Components**—❖ Shilpa Gupta, Arizona State University; Douglas C. Montgomery, Arizona State University
- 9:05 a.m. **Monitoring Correlation Within Nonlinear Profiles Using Mixed Models**—❖ Willis Jensen, W.L. Gore & Associates, Inc.; Jeffrey B. Birch, Virginia Polytechnic Institute and State University
- 9:35 a.m. **A General Framework for Monitoring of Dynamic Systems**—❖ Kwok-Leung Tsui, Georgia Institute of Technology; Wei Jiang, Stevens Institute of Technology; Tom Au, AT&T Labs - Research
- 10:05 a.m. **Floor Discussion**

CC-255 B

488

CC-255 A

● ⊛ **Innovative Designs and Analysis in Clinical Trials: Fully Harnessing Patient Information Accrued During a Trial—Invited**

Section on Government Statistics, ENAR, Biometrics Section, Biopharmaceutical Section, WNAR

Organizer(s): Yi Cheng, Indiana University South Bend

Chair(s): Yi Cheng, Indiana University South Bend

- 8:35 a.m. **Adaptive Dose-Finding Designs for Single and Dual Agent Combinations Using Accumulated Data from All Patients**—❖ Sumithra J. Mandrekar, Mayo Clinic; Daniel J. Sargent, Mayo Clinic
- 9:05 a.m. **Adaptive Design and Analysis of Clinical Trials**—❖ Yu Shen, The University of Texas M. D. Anderson Cancer Center; Yi Cheng, Indiana University South Bend
- 9:35 a.m. **Progress in Using Adaptive Designs for Clinical Trials**—❖ Donald A. Berry, The University of Texas M. D. Anderson Cancer Center
- 10:05 a.m. **Floor Discussion**

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CC-255 D

● ⊛ **Medication Compliance: New Methods and Applications—Invited**

ENAR, WNAR, Section on Health Policy Statistics, Biometrics Section

Organizer(s): Junfeng Sun, University of Nebraska Medical Center; Honghu Liu, University of California, Los Angeles

Chair(s): Junfeng Sun, University of Nebraska Medical Center

- 8:35 a.m. **Noncompliance with Drug-Dosing Regimens: An Underestimated Bias in Drug Trials and Clinical Practice**—❖ Bernard Vrijens, Pharmionic Systems Ltd.
- 9:05 a.m. **Dose-Timing Intervals of Antiretroviral Medications and Virologic Responses**—❖ Honghu Liu, University of California, Los Angeles; Loren G. Miller, University of California, Los Angeles; Ron D. Hayes, University of California, Los Angeles; Carol E. Golin, The University of North Carolina at Chapel Hill; Junfeng Sun, University of Nebraska Medical Center; Tongtong Wu, University of California, Los Angeles; Neil S. Wenger, University of California, Los Angeles
- 9:35 a.m. **Analyzing the Effects of Compliance Measured with Error in Randomized Trials**—❖ Els Goetghebeur, Gent University; Stijn Vansteelandt, Ghent University; Manoochehr Babanezhad, Ghent University
- 10:05 a.m. **Floor Discussion**

490

CC-255 F

⊛ **Advances in Statistical Aggregation—Invited**

IMS, International Indian Statistical Association

Organizer(s): Florentina Bunea, Florida State University

Chair(s): Florentina Bunea, Florida State University

- 8:35 a.m. **Aggregation Using Empirical Risk**—❖ Sara A. van de Geer, ETH Zurich
- 9:00 a.m. **Sparsity Bounds in Empirical Risk Minimization**—❖ Vladimir Koltchinskii, Georgia Institute of Technology
- 9:25 a.m. **Aggregating Algorithms for Individual Sequences**—❖ Nicolò Cesa-Bianchi, Università degli Studi di Milano
- 9:50 a.m. **Sparsity Oracle Inequalities for the Lasso**—❖ Marten Wegkamp, Florida State University; Alexandre Tsybakov, Paris VI; Florentina Bunea, Florida State University
- 10:15 a.m. **Floor Discussion**

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CC-255 C

● ⊛ **Statistical Methods and Applications in Genomics—Invited**

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

Organizer(s): Heping Zhang, Yale University

Chair(s): Hongtu Zhu, The University of North Carolina at Chapel Hill

- 8:35 a.m. **PfCluster: A New Profile Cluster Analysis Procedure**—❖ Jiayang Sun, Case Western Reserve University; Yaomin Xu, The Cleveland Clinic
- 9:05 a.m. **A Simple and Improved Correction for Population Stratification in Genetic Association Studies**—❖ Michael Epstein, Emory University
- 9:35 a.m. **Prior Elicitation and Variable Selection in Regression Models with High-Dimensional Data**—❖ Joseph G. Ibrahim, The University of North Carolina at Chapel Hill; Mayetri Gupta, The University of North Carolina at Chapel Hill
- 10:05 a.m. **Floor Discussion**

492 Network Science—Invited

Section on Statistical Computing, Section on Bayesian Statistical Science
Organizer(s): Edward Wegman, George Mason University; Yasmin H. Said, George Mason University

Chair(s): William F. Szewczyk, National Security Agency

- 8:35 a.m. **Bayesian Inference for a Longitudinal Social Network Model**—❖ Mark S. Handcock, University of Washington
- 9:05 a.m. **Network Survivability**—❖ Nozer D. Singpurwalla, The George Washington University
- 9:35 a.m. **A Review of Statistical Models for Networks with a Focus on Imputation**—❖ Stanley Wasserman, Indiana University; Douglas Steinley, University of Missouri-Columbia; Garry Robins, University of Melbourne
- 10:05 p.m. **Floor Discussion**

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

493 CC-150 G ● ⊛ Consulting from a Distance: Web-Based Analytics for Statistical Consulting—Topic-Contributed

Section on Statistical Consulting, WNAR

Organizer(s): Samaradasa Weerahandi, Time Warner; Edward D. Rothman, University of Michigan

Chair(s): Brady West, University of Michigan

- 8:35 a.m. **Web-Based Analytics in Marketing**—
❖ Samaradasa Weerahandi, Time Warner
- 8:55 a.m. **Use of Remote Consulting in a University Environment**—❖ Edward D. Rothman, University of Michigan
- 9:15 a.m. **Remote Consulting on Linear Mixed Models at a University Consulting Center**—❖ Kathleen Welch, University of Michigan; Brady West, University of Michigan
- 9:35 a.m. **How to Move from Desktop to Web Analytics**—
❖ Dilip Patel, Time Warner
- 9:55 a.m. **Disc: Diane K. Michelson, International SEMATECH Manufacturing Initiative**
- 10:15 a.m. **Floor Discussion**

CC-250 C 494 CC-355 B ● ⊛ Modeling Data from Brain Imaging Studies—Topic-Contributed

Biometrics Section, WNAR

Organizer(s): R. Todd Ogden, Columbia University

Chair(s): Martina Pavlicova, Columbia University

- 8:35 a.m. **Dynamic Positron Emission Tomography Data-Driven Analysis Using Sparse Bayesian Learning**—
❖ John Aston, Academia Sinica; Jyh-Ying Peng, Academia Sinica
- 8:55 a.m. **fMRI Statistical Brain Activation from k-Space Data**—❖ Daniel Rowe, Medical College of Wisconsin
- 9:15 a.m. **State-Space Models for Optical Imaging**—❖ Kary Myers, Los Alamos National Laboratory; Anthony E. Brockwell, Carnegie Mellon University; William F. Eddy, Carnegie Mellon University
- 9:35 a.m. **Assessing Homogeneity in Brain Regions Using Imaging Data**—❖ R. Todd Ogden, Columbia University; Huiping Jiang, Columbia University
- 9:55 a.m. **The Use of Multiscale Methods To Characterize Resting fMRI Data**—❖ Nicole Lazar, University of Georgia
- 10:15 a.m. **Floor Discussion**

495 CC-355 D ● ⊛ Repeated Measures and Recurrent Events in Medical Device Studies—Topic-Contributed

Biopharmaceutical Section, WNAR

Organizer(s): Zheng Zhou, Boston Scientific Corporation

Chair(s): Jeng Mah, American Medical Systems

- 8:35 a.m. **Group-Sequential Analysis of Correlated Binary Data on Repeated Venous Accessions**—❖ John Evans, Boston Scientific Corporation; Brian P. Johnson, Boston Scientific Corporation; So Jung Imm, Boston Scientific Corporation
- 8:55 a.m. **Longitudinal Data Analysis in Medical Device Clinical Studies**—❖ Chang S. Lao, U.S. Food and Drug Administration; Harry F. Bushar, U.S. Food and Drug Administration
- 9:15 a.m. **Comparison of Methods for Analyzing Recurrence Cardiac Arrhythmia Data**—❖ Shelby Li, Medtronic Inc.

- 9:35 a.m. **Assessing Correlation Between Repeated Measurements of Secondary Endpoints in a Medical Device Trial**—❖ Lan Pan, Boston Scientific Corporation; Bryan Randall, Boston Scientific Corporation; Alex Shih, Boston Scientific Corporation
- 9:55 a.m. **Analysis of Recurrent Events Data in Medical Device Clinical Trials**—❖ Sarah J. H. Kogut, Beckman Coulter, Inc.
- 10:15 a.m. **Floor Discussion**

- 8:55 a.m. **2-D Wavelet-Based Spectra with Applications in Analysis of Geophysical Images**—❖ Brani Vidakovic, Georgia Institute of Technology; Orietta Nicolis, University of Bergamo; Claudio Garutti, University of Padova
- 9:15 a.m. **A Data-Driven Block Thresholding Approach to Wavelet Estimation**—❖ Harrison Zhou, Yale University; Tony Cai, University of Pennsylvania
- 9:35 a.m. **Bayesian Nonparametric Modeling for Spatial Data Using Dirichlet Processes**—❖ Michele Guindani, The University of Texas M. D. Anderson Cancer Center
- 9:55 a.m. **On Block Thresholding in Wavelet Regression with Long Memory Correlated Noise**—❖ Linyuan Li, University of New Hampshire
- 10:15 a.m. **Floor Discussion**

496 **CC-251 E**
⊕ Nonparametric Approaches to Regression and Spatial Modeling—Topic-Contributed

IMS, Section on Nonparametric Statistics, Section on Statistics and the Environment
 Organizer(s): Fang Li, Indiana University Purdue University Indianapolis
 Chair(s): Weixing Song, Kansas State University

- 8:35 a.m. **Estimating the Innovation Distribution in Nonparametric Autoregression**—❖ Anton Schick,



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- 497** **CC-151 A-C** 9:15 a.m. **Bayesian Estimation of Scram Rate Trends in Nuclear Power Plants**—❖ Kaushal Mishra, North Carolina State University; Sujit Ghosh, North Carolina State University
- ⊛ **Bayesian Modeling of High-Dimensional Genomic Data—Topic-Contributed**
- Section on Bayesian Statistical Science, ENAR, Biometrics Section
Organizer(s): Dipak Dey, University of Connecticut
Chair(s): Thomas Santner, The Ohio State University
- 8:35 a.m. **Using Genomic Scans of Fst To Identify the Footprints of Selection**—❖ Kent Holsinger, University of Connecticut
- 8:55 a.m. **Bayesian Semiparametric Testing and Estimation for High-Dimensional Genetic Data**—❖ Richard MacLehose, National Institute of Environmental Health Sciences; David B. Dunson, National Institute of Environmental Health Sciences
- 9:15 a.m. **Bayesian Pathways Studies Using Microarray Data**—❖ Lynn Kuo, University of Connecticut; Wangang Xie, University of Connecticut; Dong-Guk Shin, University of Connecticut; Fang Yu, University of Connecticut; Yifang Zhao, University of Connecticut; Ming-Hui Chen, University of Connecticut
- 9:35 a.m. **Bayesian Graph Cutting**—❖ Bani Mallick, Texas A&M University
- 9:55 a.m. **Log-Linear Models for Gene and Network Interactions**—❖ Valen Johnson, The University of Texas M. D. Anderson Cancer Center; Jianhua Hu, The University of Texas M. D. Anderson Cancer Center
- 10:15 a.m. **Floor Discussion**
- 498** **CC-151 D-F** 9:15 a.m. **Bayesian Estimation of Scram Rate Trends in Nuclear Power Plants**—❖ Kaushal Mishra, North Carolina State University; Sujit Ghosh, North Carolina State University
- ⊛ **Bayesian Methods in Industrial Applications—Topic-Contributed**
- Section on Bayesian Statistical Science
Organizer(s): Sujit Ghosh, North Carolina State University
Chair(s): Gentry White, North Carolina State University
- 8:35 a.m. **A Bayesian Approach to Assessing the Risk of QT Prolongation**—❖ Suraj Anand, North Carolina State University; Sujit Ghosh, North Carolina State University
- 8:55 a.m. **Bayesian Nonparametric Random Effects Selection Using the Centered Dirichlet Process**—❖ Mingan Yang, National Institute of Environmental Health Sciences; David B. Dunson, National Institute of Environmental Health Sciences
- 9:35 a.m. **The Use of Bayesian Tolerance Intervals for Batch-Release Testing**—❖ Richard Lewis, GlaxoSmithKline; Steven J. Novick, GlaxoSmithKline
- 9:55 a.m. **A Joint Modeling Approach for Analyzing Nonignorable Missing Data**—❖ Sujit Ghosh, North Carolina State University; Liansheng Zhu, Pharmaceutical Product Development, Inc
- 10:15 a.m. **Floor Discussion**
- 499** **CC-250 E** 9:15 a.m. **Bayesian Estimation of Scram Rate Trends in Nuclear Power Plants**—❖ Kaushal Mishra, North Carolina State University; Sujit Ghosh, North Carolina State University
- ⊛ **Ranked Set Sampling I—Topic-Contributed**
- Section on Nonparametric Statistics, Section on Survey Research Methods
Organizer(s): Omer Ozturk, The Ohio State University
Chair(s): S. Lynne Stokes, Southern Methodist University
- 8:35 a.m. **Estimating the Distribution Function Using k-tuple Ranked Set Samples**—❖ Kaushik Ghosh, New Jersey Institute of Technology; Ram C. Tiwari, National Cancer Institute
- 8:55 a.m. **Distribution-Free Statistical Intervals via Ranked-Set Sampling**—❖ Jesse Frey, Villanova University
- 9:15 a.m. **A Nonparametric Mean Estimator for Judgment Post-Stratified Data**—❖ Xinlei Wang, Southern Methodist University; Johan Lim, Yonsei University; S. Lynne Stokes, Southern Methodist University
- 9:35 a.m. **Optimal Ranked Set Sampling Estimation Based on Medians from Multiple Set Sizes**—❖ Nader Gemayel, The Ohio State University; Elizabeth A. Stasny, The Ohio State University; Douglas Wolfe, The Ohio State University
- 9:55 a.m. **Minimum Distance Estimator of Judgment-Ranking Probabilities in a Ranked-Set Sample**—❖ Omer Ozturk, The Ohio State University
- 10:15 a.m. **Floor Discussion**

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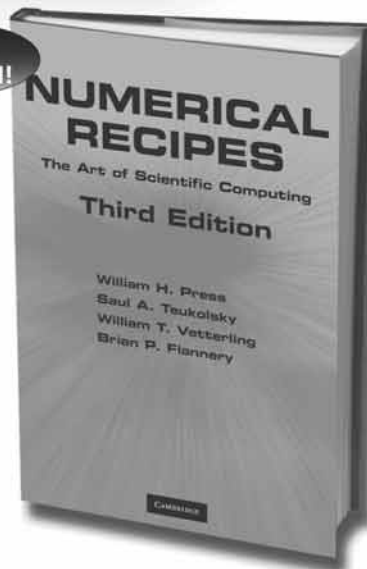
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500 CC-250 A Creating Materials for an Online Course—Topic-Contributed

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

Organizer(s): F. Michael Speed, Texas A&M University

Chair(s): Benjamin H. Eichhorn, Rider University

- 8:35 a.m. **Developing and Using Video Instruction in an Online Course**—❖ Sue Schou, Idaho State University
- 8:55 a.m. **Creating Materials for an Online Course**—❖ Suzanne Perumean-Chaney, The University of Alabama at Birmingham; Mischelle T. Stone, The University of Alabama at Birmingham
- 9:15 a.m. **Creating Materials for Online Students**—❖ Patti Collings, Brigham Young University
- 9:35 a.m. **Creating Materials for an Online/Distance Course**—❖ F. Michael Speed, Texas A&M University; Kim Ritchie, Texas A&M University
- 9:55 a.m. **Creating Materials for an Online Course**—❖ Joan Weinstein, Harvard Extension School
- 10:15 a.m. **Floor Discussion**

501 CC-254 B Bayesian Methods in Sample Surveys—Topic-Contributed

Section on Survey Research Methods

Organizer(s): Roderick J. Little, University of Michigan

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

- 8:35 a.m. **Parametric and Semiparametric Model-Based Estimates of the Finite Population Mean for Two-Stage Cluster Samples with Item Nonresponse**—❖ Roderick J. Little, University of Michigan; Ying Yuan, The University of Texas M. D. Anderson Cancer Center
- 8:55 a.m. **Bayesian Penalized Spline Model-Based Estimation of the Finite Population Distribution Function for Unequal Probability Samples**—❖ Qixuan Chen, University of Michigan; Michael R. Elliott, University of Michigan; Roderick J. Little, University of Michigan
- 9:15 a.m. **Simultaneous Credible Intervals for Small-Area Estimation Problems**—❖ Nadarjansund Ganesh, University of Maryland
- 9:35 a.m. **Bayesian Approaches to Sequential Selection of Survey Design Protocols**—❖ James Wagner, University of Michigan; Trivellore E.

Raghunathan, University of Michigan
9:55 a.m. **Floor Discussion**

502 CC-251 A ● ⊛ **Methods for Inference About Population Structure and Inheritance from Genetic Data—Topic-Contributed**

WNAR, Section on Statistics in Epidemiology, Biometrics Section

Organizer(s): Geof Givens, Colorado State University

Chair(s): Ann Lee, Carnegie Mellon University

- 8:35 a.m. **A Likelihood Method of Estimating Ancestry from Pedigrees**—❖ Janet Sinsheimer, University of California, Los Angeles; Christopher Plaisier, University of California, Los Angeles; Adriana Huertas-Vazquez, University of California, Los Angeles; Carlos Aguilar-Salinas, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán Mexico City; Teresa Tusie-Luna, National Autonomous University of Mexico; Paivi Pajukanta, University of California, Los Angeles; Kenneth Lange, University of California, Los Angeles
- 8:55 a.m. **Cluster Analysis and PCA for Detection of Genetic Variants and Population Structure**—❖ Diana Luca, Carnegie Mellon University; Kathryn Roeder, Carnegie Mellon University; Bernie Devlin, University of Pittsburgh Medical Center
- 9:15 a.m. **Evaluating Individual Admixture Estimation Through Plasmodes**—❖ Laura K. Vaughan, The University of Alabama at Birmingham; Jasmin Divers, The University of Alabama at Birmingham; Miguel Padilla, The University of Alabama at Birmingham; David T. Redden, The University of Alabama at Birmingham; Hemant Tiwari, The University of Alabama at Birmingham; Daniel Pomp, The University of North Carolina at Chapel Hill; David B. Allison, The University of Alabama at Birmingham
- 9:35 a.m. **Population Structure and Covariate Analysis Based on Pairwise Microsatellite Allele Matching Frequencies**—❖ Geof Givens, Colorado State University; Isin Ozaksoy, Colorado State University
- 9:55 a.m. **Uncertainty in Inheritance: P-Values and Confidence Levels**—❖ Elizabeth Thompson, University of Washington
- 10:15 a.m. **Floor Discussion**

Contributed Sessions 8:30 a.m.–10:20 a.m.**503****CC-355 C****● ⊛ Survival Data Analysis II—Contributed**

Biometrics Section

Chair(s): Jun-mo Nam, National Cancer Institute

- 8:35 a.m. **Modeling Bivariate Survival Times by Frank Copula**—❖ Rui Qin, Mayo Clinic; Michael P. Jones, The University of Iowa
- 8:50 a.m. **Nonparametric Inference for Clustered Competing Risks Data**—❖ Bingshu Chen, National Institutes of Health; Philip S. Rosenberg, National Institutes of Health; Joan L. Kramer, National Institutes of Health; Mark H. Greene, National Institutes of Health
- 9:05 a.m. **Pseudospline-Based Flexible Modeling of Survival Data**—❖ Zekarias Berhane, Drexel University; Lisa Weissfeld, University of Pittsburgh; Chung-Chou H. Chang, University of Pittsburgh
- 9:20 a.m. **Accommodating Deaths in Longitudinal Self-Rated Health for Hematopoietic Stem Cell Transplant Recipients**—❖ Brenda F. Kurland, Fred Hutchinson Cancer Research Center; Paul J. Martin, Fred Hutchinson Cancer Research Center; Stephanie J. Lee, Fred Hutchinson Cancer Research Center
- 9:35 a.m. **Variable Importance in Highly Predictive Models**—❖ Kyle Rudser, University of Washington; Michael LeBlanc, Fred Hutchinson Cancer Research Center; Scott Emerson, University of Washington
- 9:50 a.m. **Low-Structure Discrete Hazard Estimation by Cross-Validated Modified Likelihood**—❖ Steven Mongin, The University of Minnesota; Timothy R. Church, The University of Minnesota Twin Cities
- 10:05 a.m. **Development of a Stochastic Model of Salmon Migration Using Random Effects Models of Recapture Data from Tagged Individuals**—❖ Steven G. Smith, NOAA Fisheries; James R. Faulkner, National Marine Fisheries Service; Richard W. Zabel, NOAA Fisheries

504**CC-355 A****● ⊛ ROC Estimation and Diagnostic Tests—Contributed**

Biometrics Section

Chair(s): Jianrong Wu, St. Jude Children's Research Hospital

- 8:35 a.m. **Statistical Evaluation of Diagnostic Accuracy in Multiple Diagnostic Markers**—❖ Mi-Chia Ma, National Cheng Kung University; Kun-Cheng Lin, National Cheng Kung University
- 8:50 a.m. **Additional Diagnostic Utility of a Variable After the Adjustment of Other Variables**—❖ Caixia Li, University of California, San Francisco; Ying Lu, University of California, San Francisco
- 9:05 a.m. **Adjusting for Covariate Effects on Classification Accuracy Using the Covariate-Adjusted ROC Curve**—❖ Holly Janes, The Johns Hopkins University; Margaret Pepe, Fred Hutchinson Cancer Research Center
- 9:20 a.m. **Modeling of Prostate Cancer Detection Probability with Applications**—❖ Robert Serfling, University of Texas at Dallas
- 9:35 a.m. **Empirical Likelihood-Based Inference for the Partial Area Under the ROC Curve**—❖ Gengsheng Qin, Georgia State University; Xiaoping Jin, Centers for Disease Control and Prevention; Xiao-Hua (Andrew) Zhou, University of Washington
- 9:50 a.m. **An ROC Confidence Region Based on Radial Sweep Methods**—❖ Michael Schuckers, St. Lawrence University; Yordan Minev, St. Lawrence University
- 10:05 a.m. **Floor Discussion**

505**CC-260****Inferences for Stochastic Process and Time-to-Event Data Analysis—Contributed**

Biometrics Section

Chair(s): Zhigang Zhang, Oklahoma State University

- 8:35 a.m. **Hierarchical Spatiotemporal Models for Preterm Birth**—❖ Jonathan Norton, Florida State University
- 8:50 a.m. **Coalescent Theory for a Monoecious Random Mating Population with a Varying Size**—❖ Edward Pollak, Iowa State University
- 9:05 a.m. **Real-Time Modeling of Infectious Disease Outbreaks**—❖ Laura White, Boston University; Marcello Pagano, Harvard University

- 9:20 a.m. **Estimation Methods for Successive Times-to-Event Adjusted by Multiple Health-Related Quality-of-Life Scores**—❖ Adin-Cristian Andrei, University of Wisconsin-Madison
- 9:35 a.m. **Parameter Calibration in an Agent-Based Model of Leishmania Major Infection**—❖ Garrett Dancik, Iowa State University; Karin Dorman, Iowa State University
- 9:50 a.m. **A Color Image Grand Tour for Exploring Medical Images**—❖ Juergen Symanzik, Utah State University; Bradley Wallet, Automated Decisions, LLC; William Shannon, Washington University in St. Louis
- 10:05 a.m. **Least Squares Estimation in Linear Regression with Doubly Truncated Data**—❖ Xiaodong Luo, Mount Sinai School of Medicine; Wei-Yann Tsai, Columbia University

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● ☼ **Statistical Issues in Microarray Data in Medicine Discovery—Contributed**

Biopharmaceutical Section

Chair(s): Yue Wang, Merck & Co., Inc.

- 8:35 a.m. **Using Information Theory for the Classification of Trends in Dose-Response Microarray Experiments**—❖ Luc Bijmens, Johnson & Johnson PRD; Dan Lin, Hasselt University; Ziv Shkedy, Hasselt University; An De Bondt, Janssen Pharmaceutica - JJPRD; Ilse Van Den Wyngaert, Janssen Pharmaceutica - JJPRD; Tamara Geerts, Janssen Pharmaceutica - JJPRD; Timothy Perera, Janssen Pharmaceutica - JJPRD; Hinrich Goehlmann, Johnson & Johnson PRD
- 8:50 a.m. **Using Biological Information To Increase the Sensitivity of Tests for Differential Expression in Low-Dose Ionizing Radiation Studies**—❖ Ruixiao Lu, University of California, Davis; Susanne R. Berglund, University of California, Davis; Alison Santana, University of California, Davis; Zelanna Goldberg, University of California, Davis; David Roche, University of California, Davis
- 9:05 a.m. **Gene Selection: Filtering Microarray Probe Sets Based on Probe Level Consistency**—❖ Willem Talloen, Johnson & Johnson PRD; Hinrich Goehlmann, Johnson & Johnson PRD; Dhammika Amaratunga, Johnson & Johnson PRD; Luc Bijmens, Johnson & Johnson PRD

CC-355 E

- 9:20 a.m. **An Improved Classification Procedure for High-Dimension and Highly Noisy Data Using Data Defined Distance and Comparison Test**—❖ Shuang Liu, University of California, Davis; David Roche, University of California, Davis
- 9:35 a.m. **The Trade-Off of Bias and Variability in the Analysis of Affymetrix GeneChip Probe Data**—❖ Shibing Deng, Pfizer Inc.
- 9:50 a.m. **A Comprehensive Mixed-Model Approach for the Analysis of Microarray Gene Expression Data**—❖ Jane Chang, Bowling Green State University; Jason C. Hsu, The Ohio State University
- 10:05 a.m. **Basal Gene Expression for Affymetrix Microarray and Its Application in Cancer Microarray Data Mining**—❖ Hui-Rong Qian, Eli Lilly and Company

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● ☼ **Business Statistics and Forecasting—Contributed**

Business and Economics Statistics Section

Chair(s): David Dickey, North Carolina State University

- 8:35 a.m. **Mining Spatial Patterns of Best-Performing Branches in Banking Branch Marketing Analysis**—❖ Wen Jun Yin, IBM China Research Laboratory; Ming Xie, IBM China Research Laboratory; Jin Dong, IBM China Research Laboratory; Bin Zhang, IBM China Research Laboratory
- 8:50 a.m. **Comparing Methods Used for Handling Negative Values in Statistical Samples of Business Records**—❖ Eric Falk, Ernst & Young
- 9:05 a.m. **Dynamic Business Model Analysis for Internet-Delivered Business Services**—❖ Bonnie Ray, IBM Research
- 9:20 a.m. **Evaluating Forecasts**—❖ Wanli Min, IBM T.J. Watson Research Center; Chaitra Nagaraja, University of Pennsylvania
- 9:35 a.m. **A Mixture of Binary Logistic Regression Analysis on Labor Supply of Mothers with Disabled Children**—❖ Zeng-Hua Lu, University of South Australia
- 9:50 a.m. **A Semiparametric Approach To Estimate the Disagreement Prices Between the Hospitals and Insurers**—❖ Sreenivas Konda, Temple University
- 10:05 a.m. **Reflection on Teaching Business Statistics**—❖ Mammo Woldie, Texas Southern University

CC-150 A-C

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CC-251 D

⊕ **Stochastic Processes and Related Topics—Contributed**

IMS

Chair(s): Catherine M. Crespi, University of California, Los Angeles

- 8:35 a.m. **An Extension of Fisher’s Discriminant Analysis for Stochastic Processes**—❖ Hyejin Shin, Auburn University
- 8:50 a.m. **Uniform Central Limit Theorems for Density Estimators**—❖ Richard Nickl, University of Connecticut
- 9:05 a.m. **Detection of Two-Sided Alternatives in a Brownian Motion Model**—❖ Olympia Hadjiliadis, Princeton University/Drexel University; Vincent Poor, Princeton University
- 9:20 a.m. **Spectral Approaches for Clustering Time Series with Long Memory and Short Memory**—❖ Jaydip Mukhopadhyay, University of Connecticut; Nalini Ravishanker, University of Connecticut; Cyr E. M’lan, University of Connecticut; Jonathan Hosking, IBM T. J. Watson Research Center
- 9:35 a.m. **Estimation of Age of a Galton Watson Process**—❖ Satrajit Roychoudhury, Schering Plough Research Institute; Pranab K. Sen, The University of North Carolina at Chapel Hill; Manish C. Bhattacharjee, New Jersey Institute of Technology
- 9:50 a.m. **Stability of Empirical Minimizers Through Gaussian Approximation**—❖ Philippe Berthet, The University of Rennes 1
- 10:05 a.m. Floor Discussion

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CC-150 D-F

Bayesian Methods—Contributed

Section on Bayesian Statistical Science

Chair(s): Fei Liu, Duke University

- 8:35 a.m. **Bayesian Inference Resistant to Outliers Using Super Heavy-Tailed Distributions for the Calculation of Premiums**—❖ Alain Desgagne, University of Québec at Montréal; Jean-François Angers, University of Montréal
- 8:50 a.m. **Redefining Degrees of Freedom for General Hierarchical Linear Models**—❖ Yue Cui, The University of Minnesota; James S. Hodges, The University of Minnesota

- 9:05 a.m. **Empirical Bayes Models of Poisson Clinical Trials**—❖ Boris Zaslavsky, U.S. Food and Drug Administration
- 9:20 a.m. **A New Approach to the Inverse Bayes Formula of Compatible Conditional Distributions**—❖ Kun-Lin Kuo, National Chengchi University; Chwan-Chin Song, National Chengchi University; Thomas J. Jiang, National Chengchi University
- 9:35 a.m. **Bayes Sequential Estimation for a Subclass of Exponential Family of Distributions Under LINEX Loss**—❖ Alicja Jokiel-Rokita, Wroclaw University of Technology
- 9:50 a.m. **Estimation Procedures in the Case of Randomly Forthcoming Data**—❖ Ryszard Magiera, Wroclaw University of Technology; Alicja Jokiel-Rokita, Wroclaw University of Technology
- 10:05 a.m. **Bayesian Analysis of Progressively Type-II Censored Sample from Burr Type-XII Distribution**—❖ Younshik Chung, Pusan National University; Seongho Song, University of Cincinnati; Chansoo Kim, Kongju National University; Junghoon Jang, Korea Food and Drug Association

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CC-250 D

Modeling and Simulation—Contributed

Section on Statistical Computing, Section on Statistical Graphics

Chair(s): Heike Hofmann, Iowa State University

- 8:35 a.m. **Confirmatory Factor Analysis and Measurement Error: A Monte Carlo Simulation**—❖ Bruce Brown, Brigham Young University; Tyson T. Phalp, Myriad Genetics; Petr Blahus, Charles University
- 8:50 a.m. **Maximum Likelihood–Based Confidence Intervals for Complementary Poisson Rate Parameters with Data Subject to Misclassification**—❖ Kent Riggs, Stephen F. Austin State University
- 9:05 a.m. **Fitting Curves to Nested Confidence Intervals**—❖ Bob Blodgett, U.S. Food and Drug Administration
- 9:20 a.m. **The Semiparametric Exchangeable Model**—❖ Stephine Keeton, U.S. Food and Drug Administration

- 9:35 a.m. **A Parametric Bootstrap Approach for ANOVA with Unequal Variances: Fixed and Random Models**—❖ Fei Lu, University of Louisiana at Lafayette; Kalimuthu Krishnamoorthy, University of Louisiana at Lafayette; Thomas Mathew, University of Maryland, Baltimore County
- 9:50 a.m. **Some Binary and Nonbinary Construction Plans for Diallel Cross Designs in Incomplete Blocks**—❖ Jeffrey Shaffer, Tulane University; Sudesh Srivastav, Tulane University
- 10:05 a.m. **A Continuing Study on a New Resampling Method To Reduce Small-Sample Bias: An Extension to Multivariate Data**—❖ Haiyan Bai, University of Central Florida; Wei Pan, University of Cincinnati; Stephen Sivo, University of Central Florida

511 CC-250 B Useful Advice in Teaching Statistics—Contributed

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

Chair(s): Jane Harvill, Baylor University

- 8:35 a.m. **Teaching Introductory Statistics to Prospective Elementary School Teachers: The Habitat Experience at ETSU**—❖ Edith Seier, East Tennessee State University; Susan Hosler, East Tennessee State University
- 8:50 a.m. **Differences in Students' Performance Due to a Statistics Lab Component**—❖ Jose H. Guardiola, Texas A&M University, Corpus Christi; Duran-Hutchings Nadina, Texas A&M University, Corpus Christi; Joseph Champine, Texas A&M University, Corpus Christi
- 9:05 a.m. **Undergraduate Consulting as an Introductory Course**—❖ Jim Bentley, University of Redlands
- 9:20 a.m. **Mentoring an Undergraduate Research Project**—❖ Debra Hydorn, University of Mary Washington
- 9:35 a.m. **Teaching a 'History of Statistics' Discussion Course**—❖ Phyllis Curtiss, Grand Valley State University; Kirk Anderson, Grand Valley State University
- 9:50 a.m. **Writing Assignments in Elementary Statistics Classes**—❖ Ananda Jayawardhana, Pittsburg State University
- 10:05 a.m. **A Random Walk Through ANOVA**—❖ Daniel Kaplan, Macalester College

512 CC-251 B Topics in Environmetrics—Contributed

Section on Statistics and the Environment, WNAR

Chair(s): Veronica J. Berrocal, University of Washington

- 8:35 a.m. **Nonlinear Forecasts of the Gulf of Maine Ecosystem**—❖ Barbara Bailey, San Diego State University; Andrew Pershing, University of Maine
- 8:50 a.m. **Nonparametric Smoothing of Irregularly-Spaced Palaeo Records: Trend Estimation with Application to Climate Change**—❖ Patricia Menendez, Swiss Federal Institute for Forest Snow and Landscape Research WSL; Sucharita Ghosh, Swiss Federal Institute for Forest Snow and Landscape Research WSL
- 9:05 a.m. **A Test of Equality of Spectra of Short Memory Independent Gaussian Time Series**—❖ Ravi Siddani, University of Maryland, Baltimore County
- 9:20 a.m. **Temporally Correlated Dirichlet Processes in Pollution Receptor Modeling**—❖ Matthew Heaton, Brigham Young University
- 9:35 a.m. **Estimation of Sea Depth by Data Assimilation with Tsunami Simulation Model**—❖ Kazuyuki Nakamura, The Graduate University for Advanced Studies; Tomoyuki Higuchi, The Institute of Statistical Mathematics; Naoki Hirose, Kyushu University
- 9:50 a.m. **Bias of Cormack-Jolly-Seber (CJS) Survival Estimators in Release Recapture Studies with Low Sampling Effort**—❖ James R. Faulkner, National Marine Fisheries Service; Steven G. Smith, NOAA Fisheries
- 10:05 a.m. **Climate Change Impacts and Models**—❖ John Aleong, University of Vermont
- 10:05 a.m. **Floor Discussion**

513 CC-251 F ● Optimal Sample Design—Contributed

Section on Survey Research Methods

Chair(s): Brenda Cox, Battelle

- 8:35 a.m. **Survey Designs To Optimize Efficiency and Precision for Multiple Objectives: Methods and Applications**—❖ Stephen Williams, Mathematica Policy Research, Inc.; Frank J. Potter, Mathematica Policy Research, Inc.

- 8:50 a.m. **Optimization of Nonproportional Samples—**
❖ Raimund K. Wildner, GfK Group
- 9:05 a.m. **Sampling Design and Inference for Social Network Data: Estimating Epidemic Potential with Contact Tracing Data—**❖ Krista Gile, University of Washington; Mark S. Handcock, University of Washington
- 9:20 a.m. **Sample Allocation Under a Population Model and Stratified Inclusion Probability Proportional to Size Sampling—**Steven Heeringa, Institute for Social Research; ❖ SunWoong Kim, Dongguk University; Peter Solenberger, Institute for Social Research
- 9:35 a.m. **Comparison of Sample Set Curtailment Procedures—**❖ Jason Legg, Iowa State University
- 9:50 a.m. **A Model-Assisted Design Based on Adaptive Sampling—**❖ Ismaila Adeleke, University of Lagos; Raymond Okafor, University of Lagos; Ebenezer Esan, University of Lagos; Athanasius Opara, University of Lagos
- 10:05 a.m. **Floor Discussion**

514 **CC-254 A**
● Multivariate and Longitudinal Analysis of Survey Data—Contributed

Section on Survey Research Methods

Chair(s): J. Neil Russell, National Center for Education Statistics

- 8:35 a.m. **Random Forests with Survey Data—**❖ Guillermo Mendez, Arizona State University; Sharon L. Lohr, Arizona State University
- 8:50 a.m. **Multivariate Analysis Techniques on Model-Based Sampling—**Chang Tai Chao, National Cheng Kung University; ❖ Feng Min Lin, National Cheng Kung University
- 9:05 a.m. **A Multivariate Time Series Model for Small Areas in the Dutch Labor Force Survey—**❖ Sabine Krieg, Statistics Netherlands; Jan Van den Brakel, Statistics Netherlands
- 9:20 a.m. **Longitudinal Estimation in Dual-Frame Surveys—**
❖ Yan Lu, Arizona State University; Sharon L. Lohr, Arizona State University
- 9:35 a.m. **Joint Modeling of Longitudinal Binary Outcome and Time to Drop-Out: An Application Using Complex Survey Data—**❖ Punam Pahwa, University of Saskatchewan; Chandima Karunanayake, University of Saskatchewan

- 9:50 a.m. **A Method for Bias-Reduction of Sample-Based MLE of the Autologistic Function—**❖ Steen Magnussen, Canadian Forest Service; Robert Reeves, Queensland University of Technology
- 10:05 a.m. **Floor Discussion**

515 **CC-250 F**
● Applications in Public Health and Maternal and Child Health—Contributed

Section on Statistics in Epidemiology, Section on Health Policy Statistics

Chair(s): Sarah Ratcliffe, University of Pennsylvania

- 8:35 a.m. **Ranking Children Vaccination Coverage Curves with the National Immunization Survey (NIS)—**
❖ Zhen Zhao, Centers for Disease Control and Prevention; Philip J. Smith, Centers for Disease Control and Prevention
- 8:50 a.m. **Bayesian Hierarchical Models to Evaluate Translational Research: Connecticut Collaboration for Fall Prevention—**❖ Terrence Murphy, Yale University; Heather G. Allore, Yale University; Mary Tinetti, Yale University
- 9:05 a.m. **Disparity of Mortality from Leading Causes by Socioeconomic Status and Their Geographic Distribution: U.S. Residents, 2000-2004—**❖ Jay H. Kim, National Center for Health Statistics
- 9:20 a.m. **Alternative Models of Calculating Risk of Heat Death Among Individuals Making Covert Border Crossings from Mexico to Arizona—**❖ Mary Mays, Arizona State University; Samuel M. Keim, Arizona State University; Kendall Allred, Arizona State University; Jan Jirsak, Arizona State University
- 9:35 a.m. **A Strategy To Evaluate Noncoverage in a Binational, Population-Based Maternal and Child Health Survey on the U.S.-Mexico Border—**
❖ Ruben Smith, Centers for Disease Control and Prevention; Jill McDonald, Centers for Disease Control and Prevention; Christopher Johnson, Centers for Disease Control and Prevention
- 9:50 a.m. **Latent Variable Models for Development and Validation of an Infant Morbidity Index—**
❖ Xuefeng Liu, Wayne State University; Jeffrey Roth
- 10:05 a.m. **Birth Weight Distribution: Thinking Outside the Curve—**❖ Richard Charnigo, University of Kentucky; Lorie W. Chesnut, The University of Alabama at Birmingham; Tony LoBianco, University of Kentucky

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

516 CC-151 A-C

● **Biometrics: A Gold Standard? How Can Statistics as a Field Contribute Toward Finding an Answer?—Invited**

Section on Statisticians in Defense and National Security, ENAR, Biometrics Section, Section on Health Policy Statistics

Organizer(s): Sinjini Mitra, *The University of Southern California*

Chair(s): Michael Schuckers, *St. Lawrence University*

10:35 a.m. **Biometric Recognition: Applications, Performance, and Challenges—**❖ Anil K. Jain, Michigan State University

11:00 a.m. **Statistical Models for Fingerprint Individuality—**❖ Sarat Dass, Michigan State University; Yongfang Zhu, Michigan State University; Anil K. Jain, Michigan State University

11:25 a.m. **Information Fusion in Biometrics—**❖ Arun Ross, West Virginia University

11:50 a.m. **Statistical Issues in Biometric Authentication—**❖ Stephen Fienberg, Carnegie Mellon University

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

517 CC-257

● **New Development in the Analysis of Medical Data with Complex Structures—Invited**

Biometrics Section, SSC, ENAR

Organizer(s): Jianguo Sun, *University of Missouri-Columbia*

Chair(s): Do-Hwan Park, *University of Nevada, Reno*

10:35 a.m. **Multivariate Interval-Censored Survival Data: Parametric, Semiparametric, and Nonparametric Models—**❖ Philip Hougaard, Lundbeck

11:00 a.m. **Robust Estimation of State Occupancy Probabilities with Interval-Censored Multistate Data—**❖ Richard J. Cook, University of Waterloo; David Tolusso, University of Waterloo

11:25 a.m. **A Class of Linear Transformation Models Under Interval Censoring—**❖ Zhigang Zhang, Oklahoma State University

11:50 a.m. **Inference After Model Selection Using Restricted Permutation Methods—**❖ Rui Wang, Harvard School of Public Health; Stephen Lagakos, Harvard School of Public Health

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

518 CC-255 E

Wald Lecture III—Invited

IMS, General Methodology, Section on Bayesian Statistical Science

Organizer(s): Tony Cai, *University of Pennsylvania*

Chair(s): Dongchu Sun, *University of Missouri-Columbia*

10:35 a.m. **Working with Inexact Models: The World of Computer Modeling—**❖ James Berger, Duke University

11:40 a.m. **Disc:** L. Mark Berliner, The Ohio State University

12:00 p.m. **Floor Discussion**

519 CC-255 B

● ⊕ **Recent Advances in Group Randomization Trials—Invited**

WNAR, ENAR, Section on Health Policy Statistics, Biometrics Section

Organizer(s): Catherine M. Crespi, *University of California, Los Angeles*

Chair(s): Weng-Kee Wong, *University of California, Los Angeles*

10:35 a.m. **Modeling Heterogeneity in Intraclass Correlation—**❖ Catherine M. Crespi, University of California, Los Angeles; Weng-Kee Wong, University of California, Los Angeles

10:55 a.m. **Breaking the Matches in Community Intervention Trials—**❖ Allan Donner, University of Western Ontario

11:15 a.m. **Contamination and Group Randomized Trials—**❖ Ziding Feng, Fred Hutchinson Cancer Research Center

11:35 a.m. **Design and Analysis of Pseudo-Cluster Randomized Trials—**❖ Mirjam Moerbeek, Utrecht University

11:55 a.m. **Group Randomized Trials in Ethnic Populations—**❖ Susan L. Stewart, University of California, San Francisco

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

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520 CC-151 G ● Topics on Sample Survey Design and Inference in Honor of JNK Rao's 70th Birthday and 50 Years of Contributions—Invited

Section on Survey Research Methods

Organizer(s): Paul S. Levy, RTI International

Chair(s): Partha Lahiri, University of Maryland

- 10:35 a.m. **Recent Developments in Multiple-Frame Surveys**—❖ Sharon L. Lohr, Arizona State University
- 11:00 a.m. **Rao-Scott Corrections and Beyond**—❖ Alastair J. Scott, University of Auckland
- 11:25 a.m. **Small-Area Estimation: Theory and Practice**—❖ Mike A. Hidiroglou, Statistics Canada
- 11:50 a.m. **Disc: Wayne Fuller**, Iowa State University
- 12:10 p.m. **Floor Discussion**

521 CC-355 F ● Some Practical Considerations for Statisticians Designing Clinical Trials—Invited

Statisticians in the Pharmaceutical Industry, ENAR, Biometrics Section, Biopharmaceutical Section

Organizer(s): John W. Stevens, AstraZeneca; Sara H. Hughes, GlaxoSmithKline

Chair(s): Sue-Jane Wang, U.S. Food and Drug Administration

- 10:35 a.m. **Statistical Considerations in Planning Drug Clinical Trials**—❖ H. M. James Hung, U.S. Food and Drug Administration
- 11:00 a.m. **Performance of Multiple Testing Procedures To Compare Three Doses of a Test Drug and Placebo**—❖ Lan Kong, University of Pittsburgh; Gary Koch, The University of North Carolina at Chapel Hill; Thomas Liu, Amgen Inc.; Huei Wang, Amgen Inc.
- 11:25 a.m. **Choice of the Primary Analysis in Longitudinal Clinical Trials**—❖ Craig Mallinckrodt, Eli Lilly and Company
- 11:50 a.m. **Bioequivalence and the Pharmaceutical Industry**—❖ Scott Patterson, GlaxoSmithKline; Byron Jones, Pfizer Inc.
- 12:15 p.m. **Floor Discussion**

522 CC-250 F National Science Foundation Funded Projects in Undergraduate Education—Invited

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

Organizer(s): Shonda Kuiper, Grinnell College

Chair(s): Ann Cannon, Cornell College

- 10:35 a.m. **The SUM Project: A Statistics Undergraduate Mentoring (SUM) Program**—❖ Julie Legler, St. Olaf College
- 11:00 a.m. **Content-Rich Statistical Projects for Undergraduate Economics Students**—❖ Linda Collins, The University of Chicago
- 11:25 a.m. **Computing in Statistics: Model Courses and Curricula**—❖ Deborah Nolan, University of California, Berkeley; Mark Hansen, University of California, Los Angeles; Duncan Temple Lang, University of California, Davis
- 11:50 a.m. **Interdisciplinary Labs Created for a First or Second Course in Statistics**—❖ Shonda Kuiper, Grinnell College
- 12:15 p.m. **Floor Discussion**

523 CC-250 E ● ⊕ Dimension Reduction and Information Visualization—Invited

IMS, Section on Nonparametric Statistics, Section on Statistical Graphics

Organizer(s): Ker-Chau Li, University of California, Los Angeles

Chair(s): Ker-Chau Li, University of California, Los Angeles

- 10:35 a.m. **An RKHS Formulation of the Inverse Regression Dimension Problem**—❖ Tailen Hsing, The Ohio State University; Haobo Ren, Alcatel-Lucent
- 11:05 a.m. **Iterative Robust Sliced Inverse Regression for Gene Clustering in Microarray Gene Expression Data Analysis**—❖ Han-Ming Wu, Academia Sinica
- 11:35 a.m. **Matrix Visualization for High-Dimensional Categorical Data Structure with a Cartography Link**—❖ Chun-houh Chen, Academia Sinica; Sheng Li Tzeng, Academia Sinica; Chiun-How Kao, Academia Sinica
- 12:05 p.m. **Floor Discussion**

524

CC-251 C

Recent Advances in Nonstationary Time Series—Invited

Business and Economics Statistics Section, IMS

*Organizer(s): Hernando C. Ombao, University of Illinois**Chair(s): Xiaofeng Shao, University of Illinois*

- 10:35 a.m. **Local Adaptive Estimation for Nonstationary Time Series**—❖ Sebastien Van Belleghem, Universite catholique de Louvain
- 11:05 a.m. **Discrimination of Nonstationary Signals Using Localized Higher-Order Spectra**—❖ Hernando C. Ombao, University of Illinois
- 11:35 a.m. **Time-Dependent Spectral Analysis with Applications to Epileptic EEG Data**—❖ Wensheng Guo, University of Pennsylvania
- 12:05 p.m. **Floor Discussion**

525

CC-151 D-F

● ⊕ Risk Estimation Challenges—Invited

Section on Risk Analysis

*Organizer(s): Michael E. Tarter, University of California, Berkeley**Chair(s): Duane Steffey, Exponent, Inc.*

- 10:35 a.m. **Risk and Regulatory Policy Assessment Based on Complex Data Sources**—❖ Michael E. Tarter, University of California, Berkeley; Joseph P. Brown, State of California, Air Toxicology, and Risk Assessment Unit; Andrew G. Salmon, State of California, Air Toxicology and Risk Assessment Unit
- 11:00 a.m. **Estimating Cancer Risks from Exposure to Low Levels of Ionizing Radiation**—❖ Ethel Gilbert, National Cancer Institute
- 11:25 a.m. **Risk and the Early Detection of Disease**—Marvin Zelen, Harvard School of Public Health; ❖ Sandra Lee, Dana-Farber Cancer Institute
- 11:50 a.m. **Disc: Gretchen G. Moisen, USDA Forest Service**
- 12:10 p.m. **Floor Discussion**

526

CC-255 A

Recent Advances in Statistical Learning and Data Mining—Invited

ASA Interest Group on Statistical Learning and Data Mining, Section on Nonparametric Statistics, Section on Physical and Engineering Sciences

*Organizer(s): Xiaotong Shen, The University of Minnesota**Chair(s): Hui Zou, The University of Minnesota*

- 10:35 a.m. **Probability Estimation for Large Margin Classifiers**—❖ Junhui Wang, Columbia University; Xiaotong Shen, The University of Minnesota; Yufeng Liu, The University of North Carolina at Chapel Hill
- 11:05 a.m. **Screening for Monotone Association**—❖ Joseph S. Verducci, The Ohio State University
- 11:35 a.m. **Lasso Regression: Some Recent Developments**—❖ David Madigan, Rutgers University
- 12:05 p.m. **Floor Discussion**

527

CC-355 E

Recent Outreach from the American Statistical Association to the General Public—Invited*The American Statistician, Section on Statistical Education**Organizer(s): Peter Westfall, Texas Tech University*

- 10:35 a.m. **Garnering Student Interest: Finding Homer Simpson in Homework Assignments**—❖ Leonard A. Stefanski, North Carolina State University
- 11:00 a.m. **Attracting Sports Enthusiasts: Is a .833 Hitter Better Than a .338 Hitter?**—❖ Jesse Frey, Villanova University
- 11:25 a.m. **Recent Public Relations Outreach of the ASA: Actions and Results**—❖ Peter Westfall, Texas Tech University; Rosanne Desmone, American Statistical Association
- 11:50 a.m. **Disc: Eugene Komaroff, Kessler Medical Rehabilitation Research and Education Center**
- 12:00 p.m. **Disc: Thomas Love, Case Western Reserve University**
- 12:10 p.m. **Floor Discussion**

Topic-Contributed Sessions

10:30 a.m.–12:20 p.m.

528 CC-250 A

● Statistical Issues in Diagnostic and Prognostic Assays—Topic-Contributed

Section on Statistics in Epidemiology, WNAR

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

Chair(s): Lakshmi Vishnuvajjala, U.S. Food and Drug Administration

10:35 a.m. **Time-Dependent Receiver Operating Characteristic Curves for Early Markers of Event Time Outcomes**—❖ Yuying Jin, University of Washington; Margaret Pepe, Fred Hutchinson Cancer Research Center; Yingye Zheng, Fred Hutchinson Cancer Research Center

10:55 a.m. **Time Dependence of a Gene-Expression Prognosticator from Modeling Breast Cancer Survival Data**—❖ Kit Fun Lau, Celera; John Sninsky, Celera; Trevor Hastie, Stanford University

11:15 a.m. **On Design Issues of Clinical Studies for in vitro Diagnostics**—❖ Christoph Berding, Roche Diagnostics GmbH

11:35 a.m. **Assessment of Impact of Protocol Changes on Classification Accuracy**—❖ Wei-min Liu, Roche Molecular Systems, Inc.; Wei Wen, Roche Molecular Systems, Inc.; Barbara Brady, Roche Molecular Systems, Inc.; Sung Lee, Roche Molecular Systems, Inc.

11:50 a.m. **Disc: Harry F. Bushar, U.S. Food and Drug Administration**

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

529 CC-255 D

● GIS, Map Accuracy, and Statistics—Topic-Contributed

Section on Statistics and the Environment

Organizer(s): Jarrett Barber, University of Wyoming

Chair(s): Linda Young, University of Florida

10:35 a.m. **GIS, Map Accuracy, and Statistics**—❖ Michael Goodchild, University of California, Santa Barbara

10:55 a.m. **Error Models in Geographic Information Systems Vector Data Using Bayesian Methods**—❖ Kimberly Love, Virginia Polytechnic Institute and State University; Eric P. Smith, Virginia Polytechnic

Institute and State University; Stephen Prisley, Virginia Polytechnic Institute and State University; Keying Ye, University of Texas at San Antonio

11:15 a.m. **Using the Linearity of Map Features in Statistical Modeling of Map Positional Error**—❖ Jarrett Barber, University of Wyoming

11:35 a.m. **Modeling the Probability Distribution of Positional Errors Incurred by Residential Address Geocoding for a Rural Health Study**—❖ Dale Zimmerman, The University of Iowa

11:55 a.m. **Disc: Carol Gotway-Crawford, National Center for Environmental Health**

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

530 CC-355 B

● ⊕ Survival Analysis in Medical Device Studies—Topic-Contributed

Biopharmaceutical Section, WNAR, ENAR, Biometrics Section

Organizer(s): Peggy Pereda, Boston Scientific Corporation

Chair(s): John Evans, Boston Scientific Corporation

10:35 a.m. **Propensity Score-Adjusted Survival Analysis**—❖ Nathan Carter, Boston Scientific Corporation; Ed McMullen, Boston Scientific Corporation; Jennifer Mischke, Boston Scientific Corporation

10:55 a.m. **Time-to-Event Analysis Considerations in the Medical Device Industry**—❖ Helen Chmiel, Boston Scientific Corporation

11:15 a.m. **An Application of Propensity Score Analysis in Medical Device Clinical Studies**—❖ Wenji Pu, Medtronic Inc.

11:35 a.m. **Assessment of Goodness-of-Fit of Cox Model with Multiple Predictors in Drug Eluting Stent Trial Efficacy Evaluation**—Frank Zhou, Boston Scientific Corporation; Yukiko Imai, Boston Scientific Corporation; ❖ Hong Wang, Boston Scientific Corporation

11:55 a.m. **Disc: Heng Li, U.S. Food and Drug Administration**

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

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531 CC-255 C

⊛ Application of Causal Inference in Health Sciences—Topic-Contributed

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

Organizer(s): Sati Mazumdar, University of Pittsburgh

Chair(s): Sati Mazumdar, University of Pittsburgh

- 10:35 a.m. **A Structural Equation Model for fMRI Data with Mixed Functional and Discrete Responses—**
❖ Wesley Thompson, University of Pittsburgh
- 10:55 a.m. **Causal Approaches to Mediation Analyses—**
❖ Thomas R. Tenhave, University of Pennsylvania; Jennifer Faerber, University of Pennsylvania; Marshall Joffe, University of Pennsylvania
- 11:15 a.m. **Confounders in Assessment of Haplotypes for Lung Cancer Risk—**❖ Roger Day, University of Pittsburgh
- 11:35 a.m. **A Longitudinal Mediation Model To Assess the Indirect Effect of Adolescent-Physical Activity in Young Adult-Physical Activity Between Males and Females—**❖ Kang Sun, University of Pittsburgh; Vincent C. Arena, University of Pittsburgh
- 11:55 a.m. **Disc:** Pranab K. Sen, The University of North Carolina at Chapel Hill
- 12:15 p.m. **Floor Discussion**

532 CC-251 B

● ⊛ Methodological Issues in Engineering Applications of Computer Models: A SAMSI Program—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Thomas Santner, The Ohio State University

Chair(s): Sujit Ghosh, North Carolina State University

- 10:35 a.m. **Resampling for Inverse Problems Involving High-Dimensional Computer Simulators—**❖ Herbert Lee, University of California, Santa Cruz; Matthew Taddy, University of California, Santa Cruz; Bruno Sanso, University of California, Santa Cruz
- 10:55 a.m. **A Bayesian Analysis of the Thermal Challenge Problem—**❖ Fei Liu, Duke University; Susie Bayarri, University of Valencia; James Berger, Duke University; Rui Paulo, ISEG-Technical University of Lisbon; Jerry Sacks, National Institute of Statistical Sciences

- 11:15 a.m. **Bayesian Kalman Filter for Emulation of Complex Computer Models—**❖ Gentry White, North Carolina State University; Peter Reichert, Swiss Federal Institute of Aquatic Science and Technology
- 11:35 a.m. **Determining the Pareto Frontier for Multiobjective Optimization of Black Box Functions—**Dianne Bautista, The Ohio State University; ❖ Thomas Santner, The Ohio State University
- 11:55 a.m. **Aleatory and Epistemic Uncertainty Quantification for Engineering Applications—**❖ Laura Swiler, Sandia National Laboratories; Anthony Giunta, Sandia National Laboratories
- 12:15 p.m. **Floor Discussion**

533 CC-251 F

● Nonparametric and Semiparametric Methods for Data with Measurement Errors—Topic-Contributed

Section on Nonparametric Statistics, Section on Statistics in Epidemiology

Organizer(s): Xiaofeng Wang, The Cleveland Clinic

Chair(s): Xiaofeng Wang, The Cleveland Clinic

- 10:35 a.m. **Bandwidth Selection for Weighted Kernel Density Estimation—**❖ Bin Wang, University of South Alabama
- 10:55 a.m. **Multivariate Failure Time Data Modeling with Instrumental Variables—**❖ Zhaozhi Fan, Memorial University of Newfoundland; Xiaofeng Wang, The Cleveland Clinic
- 11:15 a.m. **Estimating the Distribution Function with Measurement Error in a Complicated Survey—**❖ Liang Li, The Cleveland Clinic; Tom Greene, The Cleveland Clinic
- 11:35 a.m. **A New Approach for Measurement Errors in Linear Models—**❖ Guan Xing, Bristol-Myers Squibb Company
- 11:55 a.m. **Floor Discussion**

534

CC-250 D

● Statistical Analysis of Neuronal Data—Topic-Contributed

IMS

Organizer(s): Zhiyi Chi, University of Connecticut

Chair(s): W. John Boscardin, University of California, Los Angeles

- 10:35 a.m. **Using Point Process Models To Describe Oscillatory Spiking in the Subthalamic Nucleus of Parkinson's Patients**—Uri Eden, Boston University; Emery N. Brown, Massachusetts General Hospital; Emad Eskandar, Massachusetts General Hospital; ❖ Sridevi V. Sarma, Massachusetts Institute of Technology
- 10:55 a.m. **Modeling and Decoding Multineuronal Responses in the Primate Retina**—❖ Liam Paninski, Columbia University
- 11:15 a.m. **Real-Time Decoding of Nonstationary Motor Cortical Activity**—❖ Wei Wu, Florida State University
- 11:35 a.m. **Jitter Methods for Investigating the Time Scale of Dependencies in Neuronal Firing Patterns**—❖ Matthew Harrison, Carnegie Mellon University; Asohan Amarasingham, Rutgers University; Stuart Geman, Brown University
- 11:55 a.m. **Variable Selection and Classification Using Computed Tomography (CT) Medical Image Data**—❖ Hyun Kim, University of California, Los Angeles; Gang Li, University of California, Los Angeles; David W. Gertson, University of California, Los Angeles; Robert Ochs, University of California, Los Angeles; Matthew S. Brown, University of California, Los Angeles; Jonathan Goldin, University of California, Los Angeles
- 12:15 p.m. **Floor Discussion**

535

CC-150 G

● ❖ Estimating the Incidence, Effect, and Cost of New Treatments for Health Outcomes—Topic-Contributed

Section on Health Policy Statistics, ENAR, Biometrics Section, WNAR

Organizer(s): Bonnie Ghosh-Dastidar, RAND Corporation

Chair(s): Yulei He, Harvard Medical School

- 10:35 a.m. **How Do You Argue Against the Use of a High-Cost Medical Treatment When a 'Quality-of-Life' Measure Is Not Available?**—❖ Andrea McAllister, Highmark Inc.
- 10:55 a.m. **Estimation of Incidence of First-Time-Ever Treatment, Prevalence of Paused Treatment,**

- and Prevalence of Active Treatment from Pharmacoepidemiologic Claims Data—❖ Henrik Stovring, University of Southern Denmark
- 11:15 a.m. **Mixed Treatment Comparison of Migraine Headache Treatment: Indirect Comparison and Evidence Consistency**—❖ Rongwei (Rochelle) Fu, Oregon Health & Science University; Kimberly Peterson, Oregon Health & Science University
- 11:35 a.m. **Effect of Intravenous Insulin Infusion on Coronary Artery Disease**—Samer Ellahham, Innovative Medical Institute/Paragon Cardiovascular Foundation; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University; ❖ Rima Allaham, Paragon Cardiovascular Foundation
- 11:55 a.m. **Update on Cardiometabolic Risk Reduction: Role of the Endocannabinoid System**—❖ Samer Ellahham, Innovative Medical Institute/Paragon Cardiovascular Foundation; Yasmin H. Said, George Mason University; Edward Wegman, George Mason University
- 12:15 p.m. **Floor Discussion**

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

536

CC-260

● ❖ Issues Related to Power and Sample Size Calculation—Contributed

Biometrics Section, Section on Teaching Statistics in the Health Sciences

Chair(s): Hulin Wu, University of Rochester

- 10:35 a.m. **Power and Sample Size Estimation for the Wilcoxon Rank Sum Test**—❖ Bernard Rosner, Harvard Medical School; Robert Glynn, Brigham and Women's Hospital
- 10:50 a.m. **Sample Size Calculations in Simple Linear Regression: A New Approach**—❖ Marepalli B. Rao, University of Cincinnati; Mohammed K. Alam, Kendle International Inc.; Subramanyam Kasala, The University of North Carolina at Wilmington; Thomas Bradstreet, Merck & Co., Inc.
- 11:05 a.m. **Why Family-Based Association Makes Sense in a Genome-Wide World: A Comparison of Study Power**—❖ David Fardo, Harvard University; Christoph Lange, Harvard School of Public Health

11:20 a.m. **Sample Size Calculations for Clinical Trials with Rate of Decline on a Quantitative Trait as the Endpoint**—❖ Steven Edland, University of California, San Diego

11:35 a.m. **Mixed-Effects Logistic Model for Association Analysis**—❖ Sanjay Shete, The University of Texas M. D. Anderson Cancer Center

11:50 a.m. **Covariate-Modulated False Discovery Rates**—❖ Egil Ferkingstad, University of Oslo; Arnaldo Frigessi, University of Oslo; Gudmar Thorleifsson, deCODE genetics; Augustine Kong, deCODE genetics

12:05 p.m. **Regression-Based Association Approach Using Genetic Similarity for Genomewide Association Scans**—❖ Jung-Ying Tzeng, North Carolina State University; Sheng-Mao Chang, North Carolina State University; Duncan C. Thomas, University of Southern California; Marie Davidian, North Carolina State University

537 CC-355 C ● ⊕ Issues Related to Clinical Trials—Contributed

Biometrics Section, Biopharmaceutical Section

Chair(s): Yichuan Zhao, Georgia State University

10:35 a.m. **Data Monitoring in Clinical Trials Using Prediction**—❖ Scott Evans, Harvard University; Lingling Li, Harvard School of Public Health; Lee-Jen Wei, Harvard University

10:50 a.m. **Specifications Based on Pharmacokinetic Evaluation**—❖ Jose Casas-Finet, MedImmune, Inc.; Harry Yang, MedImmune, Inc.; Iksung Cho, MedImmune, Inc.; Mark Schenerman, MedImmune, Inc.

11:05 a.m. **The Exact Distribution of the Heterogeneity Statistic in Meta-Analysis**—❖ Brad Biggerstaff, Centers for Disease Control and Prevention; Dan Jackson, University of Salford

11:20 a.m. **A Model-Based Assessment of Antitumor Activity for Solid Tumor Xenograft Studies**—❖ Jianrong Wu, St. Jude Children's Research Hospital

11:35 a.m. **Subgroup Weighted Association Testing**—❖ Michael LeBlanc, Fred Hutchinson Cancer Research Center

11:50 a.m. **Ensemble Methods for Classification of Patients for Personalized Medicine Using High-Dimensional Biomarkers**—❖ Hojin Moon, U.S. Food and Drug Administration; Hongshik Ahn, Stony Brook University; Ralph L. Kodell, University

of Arkansas for Medical Sciences; Songjoon Baek, U.S. Food and Drug Administration; Chien-Ju Lin, National Center for Toxicological Research; James J. Chen, U.S. Food and Drug Administration

12:05 p.m. **Recursive Estimation Method for Predicting Residual Bladder Urine Volumes to Improve Accuracy of Timed Urine Collections**—❖ David Afshartous, University of Miami; Richard Preston, University of Miami

538 CC-355 D ● ⊕ Regression Approaches To Analyze Discrete Data in Clinical Trials—Contributed

Biopharmaceutical Section, Biometrics Section

Chair(s): Christine Clark, ICON Clinical Research

10:35 a.m. **Application of the Zero-Inflated Negative Binomial Distribution**—❖ Arlene Swern, Merck & Co., Inc.; Hongwei Wang, Merck & Co., Inc.; Qian Dong, Merck & Co., Inc.; Eric C. Kleeup, David Geffen School of Medicine at UCLA

10:50 a.m. **Evaluation of Risk-Benefit in New Drug Development Using a Global Event Intensity Index**—❖ Jingli Song, Eli Lilly and Company; Andreas Sashegyi, Eli Lilly and Company; Steve Zheng, Eli Lilly and Company

11:05 a.m. **Regression Models for Multinomial Responses with an Example from PCPT**—❖ Kenneth Liu, Merck & Co., Inc.; Alexandra Carides, Merck & Co., Inc.

11:20 a.m. **Mixing Negative Binomial Distribution with Completely Monotonic Functions and Their Applications in Modeling Over-Dispersion Data**—❖ Xiaodong Wang, sanofi-aventis; Hanxiang Peng, The University of Mississippi; Ji Zhang, sanofi-aventis

11:35 a.m. **Maximum Likelihood Estimation of the Difference between Correlated Poisson Cough Counts**—❖ Xin Yan, University of Missouri-Kansas City; Thomas Bradstreet, Merck & Co., Inc.

11:50 a.m. **Negative Binomial Analysis of Hypoglycemia Rates in Diabetic Patients**—❖ Cory Heilmann, Eli Lilly and Company

12:05 p.m. **Multivariate Dose-Response Analysis of Ordinal Response Data**—❖ Kao-Tai Tsai, Bristol-Myers Squibb Company; Karl Peace, George Southern University

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539

CC-355 A

● ⊕ **Multiplicity Issues and Possible Solutions in Clinical Trials—Contributed**

Biopharmaceutical Section, Biometrics Section

Chair(s): Stephen Gulyas, Eli Lilly and Company

- 10:35 a.m. **Gate-Keeping Testing Without Tears**—❖ Jianjun Li, Merck & Co., Inc.; Devan V. Mehrotra, Merck & Co., Inc.
- 10:50 a.m. **Generalized Gate-Keeping Procedure**—❖ Ariful Haque, Novartis Pharmaceuticals; Sanat Sarkar, Temple University
- 11:05 a.m. **Multistage Gate-Keeping Procedures with Clinical Trial Applications**—❖ Alex Dmitrienko, Eli Lilly and Company; Ajit Tamhane, Northwestern University
- 11:20 a.m. **Compatible Simultaneous Confidence Intervals for the Holm Procedure and Other Closed Bonferroni-Based Tests for One-Sided Multiple Comparison Problems**—❖ Frank Bretz, Novartis Pharmaceuticals; Klaus Strassburger, Deutsches Diabetes-Zentrum DDZ
- 11:35 a.m. **A Mixture Model Approach for Estimating the Proportion of True Null Hypotheses and Adaptive Control of FDR**—❖ Ajit Tamhane, Northwestern University; Jiaxiao Shi, Northwestern University
- 11:50 a.m. **Evaluating Subgroup Risks in Trials with Many Subgroups: Issues and Potential Solutions**—❖ Xiaojiang Zhan, Merck & Co., Inc.; Amarjot Kaur, Merck & Co., Inc.
- 12:05 p.m. **Statistical Challenges in Proof-of-Concept Studies in Photosensitive Epileptics**—❖ Norman Bohidar, Johnson & Johnson PRD; Geoff Edwards, Johnson & Johnson PRD; Liwen Xi, Johnson & Johnson PRD; Surya Mohanty, Johnson & Johnson PRD

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CC-250 C

● **General Issues in Regression—Contributed**

ENAR

Chair(s): Yuting Zhang, Amgen Inc.

- 10:35 a.m. **The Theil-Sen Estimators in Modern Regression**—❖ Hanxiang Peng, The University of Mississippi; Xin Dang, University of Mississippi
- 10:50 a.m. **Efficient Estimation of Population Quantiles in General Semiparametric Regression Models**—❖ Arnab Maity, Texas A&M University

- 11:05 a.m. **Simulation Study Comparing Inverse Probability of Treatment Weighted (IPTW) Estimator and Multiple Regression Model**—❖ Jianmin Wang, RTI Health Solutions; William Irish, RTI Health Solutions
- 11:20 a.m. **Likelihood Ratio Test of Crossover Design Having Unequal Variances**—❖ Yoon-Sung Jung, Kansas State University; Dallas Johnson, Kansas State University
- 11:35 a.m. **Design Based on Interclass Correlation Coefficients**—❖ Gheorghe Doros, Boston University
- 11:50 a.m. **A Locally Weighted Regression Approach to Evaluating the Effects of Smoking Reduction on Birth Weight**—❖ Jeff M. Szychowski, The University of Alabama at Birmingham; J. Michael Hardin, The University of Alabama; Michael D. Conerly, The University of Alabama; Lesa L. Woody, The University of Alabama at Birmingham; Wendy S. Horn, The University of Alabama at Birmingham
- 12:05 p.m. **Modeling Lateral Position and Control in Driving Studies of Elderly Populations**—❖ Jeffrey Dawson, The University of Iowa; Joseph Cavanaugh, The University of Iowa; K. D. Zamba, The University of Iowa; Matthew Rizzo, The University of Iowa

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CC-251 A

● **Bayesian Nonparametric Modeling and Applications—Contributed**

Section on Bayesian Statistical Science

Chair(s): Yeonseung Chung, The University of North Carolina at Chapel Hill

- 10:35 a.m. **Comparing Fits in Nonparametric Bayes Item Response Models**—❖ Kristin Duncan, San Diego State University
- 10:50 a.m. **A Semiparametric Bayesian Approach to the Generalized Linear Mixed Effects Model**—❖ Jing Wang, Louisiana State University
- 11:05 a.m. **Bayesian Inference for a Distribution-Valued Stochastic Process**—❖ Zhen Wang, The Ohio State University; Steven N. MacEachern, The Ohio State University
- 11:20 a.m. **Nonparametric Hierarchical Bayes Analysis of Binomial Data Using Bernstein Polynomials**—❖ Tingting Zhang, Harvard University; Jun S. Liu, Harvard University

11:35 a.m. **Distribution of Random Functional of a Ferguson-Dirichlet Process on the Unit Ball**—❖ Thomas J. Jiang, National Chengchi University; Kun-Lin Kuo, National Chengchi University

11:50 a.m. **Floor Discussion**

542 CC-150 D-F ● **Measurement Issues in Surveys—Contributed**

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

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

10:35 a.m. **Comparison of the Income Items from the CPS and ACS**—❖ Bruce Webster, Jr., U.S. Census Bureau

10:50 a.m. **The Impact of Converted Refusals upon Survey Estimates: National Health and Nutrition Examination Survey, 1999-2004**—❖ Margaret Carroll, National Center for Health Statistics; Yinong Chong, National Center for Health Statistics

11:05 a.m. **Precanvass Survey for the 2007 Commodity Flow Survey**—❖ Promod Chandhok, Bureau of Transportation Statistics

11:20 a.m. **An Appraisal of the Conduct and Provisional Figures of the Nigerian Population and Housing Census of 2006**—❖ Raymond Okafor, University of Lagos

11:35 a.m. **Measuring the Quality of Service to Taxpayers in Volunteer Sites**—❖ Kevin Cecco, Internal Revenue Service; Ronald Walsh, Internal Revenue Service; Rachael Hooker, Internal Revenue Service

11:50 a.m. **Statistical 'Pre- and Post-Processing' as Integrated into Computer Simulations**—❖ Turkan Gardenier, Pragmatica Corp.

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

543 CC-254 A ● **Nonparametric Inference for Functional Data—Contributed**

Section on Nonparametric Statistics, ASA

Chair(s): Sanjay Chaudhuri, National University of Singapore

10:35 a.m. **Functional Density Warping**—❖ Zhen Zhang, University of California, Davis; Hans-Georg Müller, University of California, Davis

10:50 a.m. **Asymptotic Theory of Bivariate Penalized Splines**—❖ Yingxing Li, Cornell University; David Ruppert, Cornell University

11:05 a.m. **Local-Moment Polynomial-Smoothed Histograms with Application to Massive and Pre-Binned Datasets**—❖ Galen Papkov, Rice University; David W. Scott, Rice University

11:20 a.m. **Bayesian Isotonic Density Regression**—❖ Lianming Wang, National Institute of Environmental Health Sciences; David B. Dunson, National Institute of Environmental Health Sciences

11:35 a.m. **Spline Confidence Band with Mixing Error in Fixed Design**—❖ Jing Wang, University of Illinois at Chicago

11:50 a.m. **Some New Normality Tests Using Kernel Density Estimators**—❖ Yishi Wang, Western Carolina University

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

544 CC-254 B ● **Data Analysis and Variable Selection—Contributed**

Section on Physical and Engineering Sciences, Section on Statistics and Marketing, Section on Teaching Statistics in the Health Sciences, Section on Quality and Productivity

Chair(s): Dachuang Cao, Eli Lilly and Company

10:35 a.m. **Variable Selection for LDA When $n < p$** —❖ Matthew Mitchell, Metabolan

10:50 a.m. **Detecting Multiple Outliers and/or Mean Vector Shifts in Large Samples of Individual Multivariate Observations**—❖ Joe Sullivan, Mississippi State University

11:05 a.m. **Bayesian Wavelet-Based Despeckling of Ultrasound Medical Images Using the Gauss-Hermite Expansion**—❖ S. M. Mahbubur Rahman, Concordia University; M. Omair Ahmad, Concordia University; M. N. S. Swamy, Concordia University

11:20 a.m. **Using an Adaptive Control Filter To Predict the Synchronization of Time Series**—❖ Morris Morgan, Hampton University; Carolyn Morgan, Hampton University

11:35 a.m. **Statistical Aspects of Marketing Mix Models**—❖ Igor Mandel, Analytic Partners

11:50 a.m. **Evaluation and Selection of Models for Out-of-Sample Prediction When the Sample Size Is Small Relative to the Complexity of the Data-Generating Process**—❖ Hannes Leeb, Yale University

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

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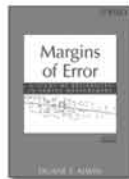


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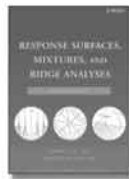
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● **Regression—Contributed**

Section on Statistical Computing, Section on Statistical Graphics, IMS

Chair(s): James Shine, U.S. Army Topographic Engineering Center

- 10:35 a.m. **Simple Techniques for Estimation of Additive Rate Regression Models**—❖M. Brent McHenry, Bristol-Myers Squibb Company; Stuart R. Lipsitz, Brigham and Women's Hospital; Debajyoti Sinha, Medical University of South
- 10:50 a.m. **Alternative Penalty Functions for Principal Components**—❖Trevor Park, University of Florida
- 11:05 a.m. **A New Robust Partial Least Squares Regression Method (RoPLS) and Its Robustness**—❖Asuman Turkmen, Auburn University; Nedret Billor, Auburn University
- 11:20 a.m. **Variable Selection in Factor Analysis Regression and Its Application**—❖Zenaida F. Mateo, University of Manitoba
- 11:35 a.m. **Purposeful Selection of Variables in Logistic Regression: Macro and Simulation Results**—❖Zoran Bursac, University of Arkansas for Medical Sciences; C. Heath Gauss, University of Arkansas for Medical Sciences; D. Keith Williams, University of Arkansas for Medical Sciences; David Hosmer, University of Massachusetts Amherst
- 11:50 a.m. **A Realization of the Functionalized General Trichotomy in Logistic Regression**—❖Ligong Chen, Center for Prostate Disease Research; Yongmei Chen, Center for Prostate Disease Research; Jennifer Cullen, Center for Prostate Disease Research
- 12:05 p.m. **Floor Discussion**

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● **Statistical Graphics: Methods and Applications—Contributed**

Section on Statistical Graphics

Chair(s): Deborah Swayne, AT&T Labs - Research

- 10:35 a.m. **Visualizing Cluster-Compressed Multivariable and Multialtitude Atmospheric Data**—❖Daniel Carr, George Mason University; Amy Braverman, Jet Propulsion Laboratory
- 10:50 a.m. **An Exploratory Stroll Along the Beach**—❖Charlotte Wickham, University of California, Berkeley

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- 11:05 a.m. **Characterizing Multivariate Data with High-Resolution Human Faces**—❖Dean Nelson, University of Pittsburgh at Greensburg; Joe Szurek, University of Pittsburgh at Greensburg
- 11:20 a.m. **Graphs in Social Science Texts: We Can and Should Do Better**—❖Naomi Robbins, NBR-Graphs; Joyce Robbins, Touro College
- 11:35 a.m. **Longitudinal Multivariate Graphics in the Analysis of Time Management Data**—❖Jessica M. Scott, Brigham Young University; Steven A. Wygant, Brigham Young University; Bruce Brown, Brigham Young University
- 11:50 a.m. **Generating Data with Identical Statistics but Dissimilar Graphics: A Follow-Up to the Anscombe Dataset**—❖Sangit Chatterjee, Northeastern University; Firat Aikut, Northeastern University
- 12:05 p.m. **A Note on the Barnett-Cohen Censored Histogram**—❖Jong Kim, Portland State University; Bryan G. Schar, U.S. Census Bureau

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● **Estimation, Forecasting, and Hypothesis Testing—Contributed**

Social Statistics Section

Chair(s): Nancy Clusen, Mathematica Policy Research, Inc.

- 10:35 a.m. **Examination of Two Issues Regarding Electronic Essay Scoring**—❖Sandip Sinharay, Educational Testing Service; Shelby Haberman, Educational Testing Service; Jiahe Qian, Educational Testing Service
- 10:50 a.m. **Statistical Tests for Differential Functioning in Parametric Item Response Theory: A Monte Carlo Evaluation of Conventional DFIT Methods and a Bootstrap Alternative**—❖Gregory Petroski, University of Missouri-Columbia; Steven J. Osterlind, University of Missouri-Columbia
- 11:05 a.m. **Simulation Results of Bias Estimates for Compositional Data**—❖Don R. Warren, University of Texas at San Antonio
- 11:20 a.m. **Navigating the Multiplicity of Hypotheses in Evaluating Juror Selections**—❖Bruce Barrett, The University of Alabama
- 11:35 a.m. **Hypothesis Testing with Lot Quality Assurance Sampling (LQAS) Using the Normal Approximation of the Binomial**—❖David Fitch, Universidad del Valle de Guatemala; Roberto Molina Cruz, Universidad Del Valle de Guatemala
- 11:50 a.m. **Floor Discussion**

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● Statistical Methods and Applications in Epidemiology—Contributed

Section on Statistics in Epidemiology

Chair(s): Daniel Reyner, Zimmer, Inc

- 10:35 a.m. **Application of Johnson System of Distribution in Gene Selection**—❖ Florence George, University of South Florida; Kandethody Ramachandran, University of South Florida
- 10:50 a.m. **A Computational Approach to Variable Selection in Canonical Discriminant Analysis**—❖ Man Jin, Columbia University
- 11:05 a.m. **Using Surrogate Outcomes for Improving Power To Detect Gene-Environment Interactions**—
❖ Tamanna Howlader, Concordia University; Michal Abrahamowicz, McGill University; Yogendra P. Chaubey, Concordia University
- 11:20 a.m. **Extension of the Cohort Analysis for Genetic Epidemiology Program To Assess Excess Risk of Cancer**—❖ Mei Liu, The University of Texas M. D. Anderson Cancer Center; Carol J. Etzel, The University of Texas M. D. Anderson Cancer Center; Michael Scheurer, The University of Texas M. D. Anderson Cancer Center; Melissa Bondy, The University of Texas M. D. Anderson Cancer Center; Sara Strom, The University of Texas M. D. Anderson Cancer Center; Christopher I. Amos, The University of Texas M. D. Anderson Cancer Center
- 11:35 a.m. **Length-Biased Sampling in Cancer Screening with Variable Test Sensitivity**—❖ Sonya Heltsh, University of Colorado at Denver and Health Services Center; Karen Kafadar, University of Colorado at Denver and Health Services Center
- 11:50 a.m. **Comparison of Adaptive Gaussian Quadrature, PQL, and Laplace 6 Estimates of Hierarchical Logistic Models When Comparing Small Incident Rates in Cluster-Randomized Trials**—❖ Rafael Diaz, California State University, Sacramento
- 12:05 p.m. **Sequential McNemar Tests with Exact Methods**—
❖ Jiang Hu, Glotech Inc.; Aiyi Liu, National Institutes of Health; Chengqing (Alan) Wu, National Institutes of Health

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Statistical Methods in Health Science Research—Contributed

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

Chair(s): Peter H. Van Ness, Yale University

- 10:35 a.m. **Overview of the Odds Ratio and Relative Risk: Inequality, Conversion, Efficiency, and Power of Testing**—❖ Peng Liu, U.S. Food and Drug Administration; Debra A. Street, U.S. Food and Drug Administration
- 10:50 a.m. **A Graphical Method for Assessing Mediating Variables Using Brunswik's Lens Model**—
❖ Matthew P. Spackman, Brigham Young University; Dawson Hedges, Brigham Young University; Bruce Brown, Brigham Young University
- 11:05 a.m. **Determining Graft Survival After Clinical Islet Transplantation: Superior Performance of Extended Cox-Based Models**—❖ Abdul Salam, University of Alberta; Peter Senior, University of Alberta; Abdulkadir Hussein, University of Windsor; Patricia M. Campbell, University of Alberta; Kathleen LaBranche, University of Alberta; James A.M. Shapiro, University of Alberta
- 11:20 a.m. **BMI, Alcohol, and Colorectal Cancer**—❖ Negasi Beyene, Centers for Disease Control and Prevention
- 11:35 a.m. **Improving Inference on Diagnostic Tests Without Gold Standard When Auxiliary Information Is Available**—❖ Gong Tang, University of Pittsburgh
- 11:50 a.m. **Comparisons of Statistical Methods in Analyzing Clinical Data Through Empirical Simulations**—
❖ Yongming Qu, Eli Lilly and Company; Lei Xu, University of Wisconsin-Madison; Pandurang M. Kulkarni, Eli Lilly and Company
- 12:05 p.m. **Identifying Patterns of Longitudinal Data Set with Meaningful Inflated Missing Values: A Case Study Combining Data Mining and Statistical Techniques**—❖ Hua Fang, University of Nebraska-Lincoln; Kimberly A. Espy, University of Nebraska-Lincoln; Maria L. Rizzo, Bowling Green State University; Honggang Wang, University of Nebraska-Lincoln

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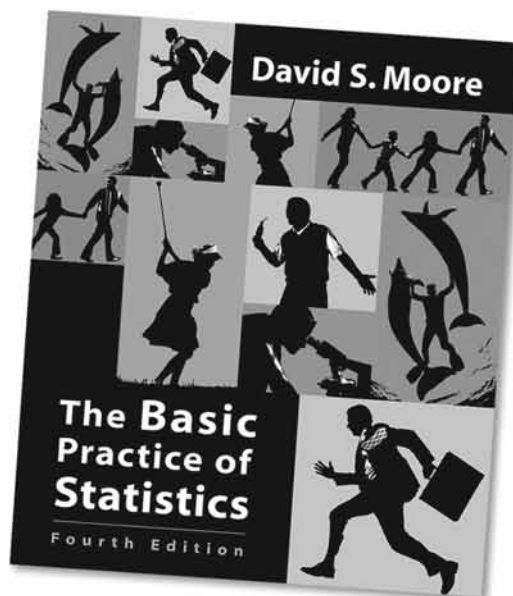
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