### Conference opening session

**Monday, June 16, 8:00 AM – 8:20 AM**

- *Analyzing Genome Scale Data*
  - Robert Gentleman
  - Senior Director, Bioinformatics, Genentech

### Keynote session

**Monday, June 16, 8:20 AM – 9:30 AM**

- *Analyzing Genome Scale Data*
  - Robert Gentleman
  - Senior Director, Bioinformatics, Genentech

### Session 1: Emerging Statistical Methods for Complex Data (201407) (10:00 AM – 12:00 PM)

**Room:** Salon A, Lower Level 1

**Organizer:** Lan Xue
- Oregon State University

**Chair:** Lan Xue
- Oregon State University

- *Estimation of the Error Correlation Matrix in Semi-parametric Models for Brain fMRI Data*
  - Chunming Zhang
  - University of Wisconsin-Madison

- *Kernel Additive Models for Sliced Inverse Regression*
  - Heng Lian
  - Nanyang Technological University

- *Variable Selection with Prior Information for Generalized Linear Models via the Prior Lasso Method*
  - Yuan Jiang
  - Oregon State University

- *Bootstrapping high dimensional vector: interplay between dependence and dimensionality*
  - Xianyang Zhang
  - University of Missouri-Columbia

### Session 2 Statistical Methods for Sequencing Data Analysis (201418)

**Room:** Salon B, Lower Level 1

**Organizer:** Yanming Di
- Oregon State University

**Chair:** Gu Mi
- Oregon State University

- *A penalized likelihood approach for robust estimation of isoform expression*
  - Hui Jiang
  - University of Michigan

- *Classification on sequencing data and its applications on a human breast cancer dataset*
  - Jun Li
  - Notre Dame University

- *Power-Robustness Analysis of Statistical Models for RNA-sequencing data*
  - Gu Mi
  - Oregon State University

**Discussant:** Wei Sun
- University of North Carolina at Chapel Hill

### Session 3 Modeling Big Biological Data with Complex Structures (201420)

**Room:** Salon C, Lower Level 1

**Organizer:** Hua Tang
- Stanford University

**Chair:** Marc Coram
- Stanford University
High-dimensional Graphical Models Learning
Jie Peng
University of California at Davis

Statistical Analysis of RNA Sequencing Data
Mingyao Li
University of Pennsylvania

Quantifying the Role of Steric Constraints in Nucleosomes Positioning
Jun Song
University of California at San Francisco

Integrative Dynamic Omics, Networks and Personalized Medicine
George Mias
Stanford University

Session 4 Bayesian Approaches for Modeling Dynamic Non-Gaussian Responses (201431)
Room: Salon D, Lower Level 1
Organizer: Xiaojing Wang
University of Connecticut

Chair:
Xun Jiang
Amgen

Binary State Space Mixed Models with Flexible Link Functions
Dipak Dey
University of Connecticut

Bayesian Spatial-Temporal Modeling of Ecological Zero-Inflated Count Data
Xia Wang
University of Cincinnati

Real-time Bayesian Parameter Estimation for Item Response Models
Ruby Weng
National Chengchi University

Statistical Prediction for Virginia Lyme Disease Emergence Based on Spatio-temporal Count Data
Jie Li
Virginia Institute of Technology

Session 5 Recent Advances in Astro-Statistics (201437)
Room: Salon G, Lower Level 1
Organizer:
Thomas Lee
University of California at Davis

Chair:
Alexander Aue
University of California at Davis

Embedding the Big Bang Cosmological Model into a Bayesian Hierarchical Model for Super Nova Light Curve Data
David van Dyk
Imperial College

Marrying Domain Knowledge and Statistical Methods
Ashish Mahabal
Caltech Astronomy

Nonlinear Classification of X-Ray Binaries
Luke Bornn
Harvard University

Persistent Homology and the Topology of the Intergalactic Medium
Fabrizio Lecci
Carnegie Mellon University

Session 6 Statistical methods and application in genetics (201429)
Room: Salon H, Lower Level 1
Organizer:
Ying Wei
Columbia University

Chair:
Ying Wei
Columbia University
Identification of Homogeneous and Heterogeneous Covariate Structure in Pooled Cohort Studies
Xin Cheng
New York University

Gene Expression Analyses in Evaluating Translational Biomarkers from Drug Induced Idiopathic Pulmonary Fibrosis in Animal Models
Wenfei Zhang
Sanofi

DNA Methylation, Cell-Type Distribution, and EWAS
Andres Houseman
Oregon State University

Secondary Quantile Analysis for GWAS
Ying Wei
Columbia University

Session 7 Statistical Inference of Complex Associations in High-Dimensional Data (201450)
Room: Salon I, Lower Level 1
Organizer: Jun Liu
Harvard University

Chair: Di Wu
Harvard University

Leveraging for Big Data Regression
Ping Ma
University of Georgia

Reference-free metagenomics analysis using matrix factorization
Wenxuan Zhong
University of Georgia

Big data, big models, big problems: Statistical principles and practice at scale
Alexander Blocker
Google

Session 8 Recent Developments in Survival Analysis (201461)
Room: Eugene Room, Lower Level 1
Organizer: Qingxia (Cindy) Chen
Vanderbilt University

Chair: Qingxia (Cindy) Chen
Vanderbilt University

Bayesian Joint Modeling of Multi-dimensional Longitudinal and Survival Data with Applications to Cancer Clinical Trials
Ming-Hui Chen
University of Connecticut

Estimating Risk with Time-to-Event Data: An Application to the Women’s Health Initiative
Dandan Liu
Vanderbilt University

Efficient Estimation of Nonparametric Genetic Risk Function with Censored Data
Yuanjia Wang
Columbia University

Support Vector Hazard Regression for Predicting Event Times Subject to Censoring
Donglin Zeng
University of North Carolina at Chapel Hill

Session 9 Industry Practice and Regulatory Pathway for Benefit-Risk Assessment of Medicinal Products (201463)
Room: Portland Room, Lower Level 1
Organizers: Shihua Wen
Abbvie
Yijie Zhou
Merck

Chair: Yijie Zhou
Merck
Visual Communication and Assessment of Benefit-Risk for Medical Products
Jonathan Norton
MedImmune

Some Thoughts on Evaluation of Uncertainty in Benefit-Risk Assessment
Qi Jiang
Amgen

Current Concept of Benefit Risk Assessment of Medicine
Syed Islam
AbbVie

Discussant
Yang Bo
AbbVie

Session 10 Analysis of Observational Studies and Clinical Trials (Contributed)
Room: Salem Room, Lower Level 1
Chair: Naitee Ting
Boehringer-Ingelheim Company

Impact of tuberculosis on mortality among HIV-infected patients receiving antiretroviral therapy in Uganda: a case study in propensity score analysis
Rong (Rachel) Chu
Agensys Inc (Astellas)

Ecological Momentary Assessment: Methods to Increase Response and Adjust for Attrition in a Study of Middle School Students’ Exposure to Alcohol Advertising
Stephanie Kovalchik
Rand Corporation

Is Poor Antisaccade Performance in Healthy First-Degree Relatives of Schizophrenics an Artifact of Study Design?
Charity Morgan
University of Alabama at Birmingham

Analysis of a Vaccine Study in Animals using Mitigated Fraction in SAS
Mathew Rosales
Experis

Competing Risks Survival Analysis for Efficacy Evaluation of Some-or-None Vaccines
Paul T. Edlefsen
Fred Hutchinson Cancer Research Center

Using Historical Data to Automatically Identify Air-Traffic Controller Behavior
Yuefeng Wu
University of Missouri St. Louis

Monday, June 16, 1:30 PM – 3:10 PM

Session 11 Lifetime Data Analysis (201402)
Room: Salon A, Lower Level 1
Organizer: Mei-Ling Lee
University of Maryland

Chair: Mei-Ling Lee
University of Maryland

Quantile Residual Life
Jong Jeong
University of Pittsburgh

Analysis of Multiple Type Recurrent Events When Only Partial Information is Available for Some Subjects
Min Zhan
University of Maryland

Cumulative Incidence Function under Two-Stage Randomization
Yu Cheng
University of Pittsburgh

Nonparametric threshold selection with censored survival data
Zhezhen Jin
Columbia University
**Session 12 Safety Signal Detection and Safety Analysis (201440)**
Room: Salon B, Lower Level 1
Organizer:
Qi Jiang
Amgen

Chair:
Qi Jiang
Amgen

*Evaluation of Statistical Methods for the Identification of Potential Safety Signs*
Maggie Chen
Amgen

*Application of a Bayesian Method for Blinded Safety Monitoring and Signal Detection in Clinical Trials*
Shihua Wen
AbbVie

*Some Thoughts on the Choice of Metrics for Safety Evaluation*
Steven Snapinn
Amgen

*Hypothesis Testing on Safety Data: A Recurrent Event Approach*
Liang Fang
Gilead Sciences

**Session 13 Survival and Recurrent Event Data Analysis (201406)**
Room: Salon C, Lower Level 1
Organizer:
Chiung-Yu Huang
Johns Hopkins University

Chair:
Chiung-Yu Huang
Johns Hopkins University

*Survival Analysis without Survival Data*
Gary Chan
University of Washington

**Session 14 Statistical Analysis on Massive Data from Point Processes (201409)**
Room: Salon D, Lower Level 1
Organizer:
Haonan Wang
Colorado State University

Chair:
Chunming Zhang
University of Wisconsin-Madison

*Semi-parametric Estimation for the Additive Hazards Model with Left-truncated and Right-censored Data*
Chiung-Yu Huang
Johns Hopkins University

*Nonparametric Methods for Data of Recurrent Infections After Hematopoietic Cell Transplantation*
Xianghua Luo
University of Minnesota

*Identification of Synaptic Learning Rule from Ensemble Spiking Activities*
Dong Song
University of Southern California

*Intrinsically weighted means and non-ergodic marked point processes*
Zhengjun Zhang
University of Wisconsin-Madison

*Statistical Analysis for Unlabeled Data Objects*
Ela Sienkiewicz
Colorado State University

**Session 15 High Dimensional Inference (or Testing) (201410)**
Room: Salon G, Lower Level 1
Organizer:
Pengsheng Ji
University of Georgia

Chair:
Pengsheng Ji
University of Georgia

Adaptive Sparse Reduced-rank Regression
Tingni Sun
University of Pennsylvania

Variable Screening in Biothreat Detection Using Weighted Leverage Score
Yiwen Liu
University of Georgia

Testing High-dimensional Nonparametric Functions with Application to Gene Set Analysis
Pingshou Zhong
Michigan State University

Zero-Inflation in Clustered Binary Response Data: Mixed Model and Estimating Equation Approaches
Danping Liu
NIH

Session 16 Phase II Clinical Trial Design with Survival Endpoint (201414)
Room: Salon H, Lower Level 1
Organizer: Jianrong Wu
MD Anderson Cancer Center, Houston

Chair:
Joan Hu
Simon Fraser University

Utility-Based Optimization of Schedule-Dose Regimes based on Times to Response and Toxicity
Peter Thall
MD Anderson Cancer Center, Houston

Bayesian Decision Theoretic Two-stage Design in Phase II Clinical Trials with Survival Endpoint
Lili Zhao
University of Michigan

Single-Arm Phase II Group Sequential Trial Design with Survival Endpoint at a Fixed Time Point
Jianrong Wu
St. Jude Children’s Research Hospital

Session 17 Statistical Modeling of High-throughput Genomics Data (201421)
Room: Salon I, Lower Level 1
Organizer: Mingyao Li
University of Pennsylvania

Chair:
Mingyao Li
University of Pennsylvania

Learning Genetic Architecture of Complex Traits Across Populations
Hua Tang
Standard University

A Bayesian Hierarchical Model to Detect Differentially Methylated Loci from Single Nucleotide Resolution Sequencing Data
Hao Wu
Emory University

Differential Isoform Expression Analysis in RNA-Seq using Random-Effects Meta-Regression
Rui Xiao
University of Pennsylvania

Allele-Specific Differential Methylation Analysis with Next Generation Methylation Sequencing Data
Fei Zou
University of North Carolina at Chapel Hill

Session 18 Statistical applications in finance (201456)
Room: Portland Room, Lower Level 1
Organizer: Zheng Su
Deerfield Company
Chair: Zheng Su Deerfield Company

*A stochastic mixture model for economic cycles*
Haipeng Xing State University of New York, at Stony Brook

*Statistical modelling of bidding prices in online ad position auctions*
Xiaoming Hu Georgia Tech

*Regression with Rank Covariates: A Distribution Guided Scores for Ranks*
Johan Lim Seoul National University

*Spot Volatility Matrix Estimation for High-Frequency Financial Data With Noise Contamination*
Minjing Tao Florida State University

Session 19 Hypothesis Testing (Contributed)
Room: Eugene, Lower Level 1
Chair:
Fei Tan Indiana University - Purdue University

*A Score-type Test for Heterogeneity in Zero-inflated Models in a Stratified Population*
Guanqun Cao Auburn University

*Inferences on Correlation Coefficients of Bivariate Log-normal Distributions*
Guoyi Zhang University of New Mexico

*Testing calibration of risk models at extremes of disease-risk*
Minsun Song

National Cancer Institute, National Institutes of Health

*Statistical Issues When Incidence Rates Extremely Low And Sample Sizes Very Big*
Peter Hu Amgen

*Minimum distance regression model checking when responses are missing at random*
Xiaoyu Li Auburn University

Session 20 Design and Analysis of Clinical Trials (Contributed)
Room: Salem Room, Lower Level 1
Chair:
Amei Amei University of Nevada Las Vegas

*Application of Bayesian Approach in Assessing Rare Adverse Events during a Clinical Study*
Grace Li Eli Lilly and Company

*A simplified varying-stage adaptive phase II/III clinical trial design*
Gaohong Dong Novartis

*Improving Multiple Comparison Procedures With Coprimary Endpoints by Generalized Simes Tests*
Hua Li Novartis

*Efficient design for cluster randomized trials with binary outcomes*
Sheng Wu University of California, Los Angeles

*Zero event and continuity correction in meta-analyses of rare events using Mantel-Haenszel odds ratio and risk difference*
Tianyue Zhou
Sanofi

**Monday, June 16, 3:30 PM – 5:10 PM**

**Session 21 New methods for big data (201413)**
Room: Salon A, Lower Level 1
Organizer:
Yichao Wu
North Carolina State University

Chair:
Yichao Wu
North Carolina State University

- **Sure Independence Screening for Gaussian Graphical Models**
Rui Song
North Carolina University

- **Case-Specific Random Forests**
Dan Nettleton
Iowa State University

- **Uncertainty Quantification in Massive Data Problems using Generalized Fiducial Inference**
Thomas Lee
University of California at Davis

- **OEM Algorithm for Big Data**
Xiao Nie
University of Wisconsin-Madison

**Session 22 New Statistical Methods for Analysis of High Dimensional Genomic Data (201415)**
Room: Salon B, Lower Level 1
Organizer:
Michael C. Wu
Fred Hutchinson Cancer Research Center

Chair:
Michael C. Wu
Fred Hutchinson Cancer Research Center

- **Integrative Modeling of Multi-Platform Genomic Data under the Framework of Mediation Analysis**
Yen-Tsung Huang
Brown University

- **Estimation of High Dimensional Directed Acrylic Graphs using eQTL Data**
Wei Sun
University of North Carolina at Chapel Hill

- **Prioritizing Disease Genes from Genome-wide Association Studies through Dynamic Co-expression Networks**
Hongyu Zhao
Yale University

- **Kernel Machine Methods for Joint Testing and Integrative Analysis of Genome Wide Methylation and Genotyping Studies**
Ni Zhao
Fred Hutchinson Cancer Research Center

**Session 23 Recent advances in analysis of longitudinal data with informative observation process (201416)**
Room: Salon C, Lower Level 1
Organizer:
Jing Ning
The University of Texas MD Anderson Cancer Center

Chair:
Weining Shen
The University of Texas MD Anderson Cancer Center

- **Joint Modeling of Alternating Recurrent Transition Times**
Liang Li
The University of Texas MD Anderson Cancer Center

- **Regression Analysis of Panel Count Data with Informative Observation Times**
Yang Li
University of North Carolina Charlotte
Envelope Linear Mixed Model
Xin Zhang
University of Minnesota

Regression Analysis of Longitudinal Data with Irregular and Informative Observation Time
Chunyan Cai
The University of Texas Health Science Center at Houston

Session 24 Bayesian Models for High Dimensional Complex Data (201419)
Room: Salon D, Lower Level 1
Organizer:
Ju Hee Lee
University of California Santa Cruz

Chair:
Ju Hee Lee
University of California Santa Cruz

A Bayesian Feature Allocation Model for Tumor Heterogeneity
Ju Hee Lee
University of California Santa Cruz

Some Results on the One-Way ANOVA Model with an Increasing Number of Groups
Feng Liang
University of Illinois at Urbana-Champaign

Bayesian Graphical Models for Differential Pathways
Yuan Ji
University of Chicago

Latent Space Models for Dynamic Networks
Yuguo Chen
University of Illinois at Urbana-Champaign

Session 25 Statistical Methods for Network Analysis (201422)
Room: Salon G, Lower Level 1
Organizer:

Yunpeng Zhao
George Mason University

Chair:
Yunpeng Zhao
George Mason University

Consistency of Co-clustering Exchangeable Array Data
David Choi
Carnegie Mellon University

Laplacian Shrinkage for Inverse Covariance Estimation from Heterogeneous Populations
Ali Shojaie
University of Washington

Estimating signature subgraphs in samples of labeled graphs
Juhee Cho
University of Wisconsin-Madison

Fast Hierarchical Modeling for Recommender Systems
Patrick Perry
New York University

Session 26 New analysis methods for understanding complex diseases and biology (201423)
Room: Salon H, Lower Level 1
Organizer:
Wenyi Wang
The University of Texas MD Anderson Cancer Center

Chair:
Wenyi Wang
The University of Texas MD Anderson Cancer Center

Data-Integration for Identifying Clinically Important Long Non-coding RNA in Cancer
Yiwen Chen
Dana Farber Cancer Institute
Session 27 Recent Advances in Time Series Analysis (201424)
Room: Salon I, Lower Level 1
Organizer: Mikyoung Jun
Texas A&M

Chair:
Zhengjun Zhang
University of Wisconsin

Times Series Models for Spherical Data with Applications in Structural Biochemistry
Jay Breidt
Colorado State University

Semiparametric Estimation of Spectral Density Function with Irregular Data
Zhengyuan Zhu
Iowa State University

On the Prediction of Stationary Functional Time Series
Alexander Aue
University of California at Davis

A Composite Likelihood-based Approach for Multiple Change-point Detection in Multivariate Time Series Models
Chun Yip Yau
Chinese University of Hong Kong

Session 28 Analysis of correlated longitudinal and survival data (201458)
Room: Eugene Room, Lower Level 1
Organizer: Jingjing Wu
University of Calgary

Chair:
Jingjing Wu
University of Calgary

Analysis of Non-randomized Longitudinal Quality of Life Trial
Mounir Mesbah
University of Paris 6

Power and Sample Size Calculation for Evaluating Mediation Effects with Multiple Mediators in Longitudinal Studies
Cuiling Wang
Yeshiva University

Distribution-free First hitting-time Based Threshold Regression for Lifetime Data
Mei-Ling Lee
University of Maryland

Joint Modeling of Survival Data and Mismeasured Longitudinal Data using the Proportional Odds Model
Wenqing He
University of Western Ontario

Session 29 Clinical Pharmacology (201460)
Room: Portland Room, Lower Level 1
Organizer: Christine Wang
Amgen

Chair:
Christine Wang
Amgen

Truly Personalizing Medicine?
Mike Hale
Amgen
What do Statistician do Clinical Pharmacology?
Brian Smith
Amgen

The Use of Modeling and Simulation to Bridge Different Dosing Regimens – a Case Study
Chyi-Hung Hsu
Johnson & Johnson

A Comparison of FDA and EMA Recommended Models for Bioequivalence Studies
Yongwu Shao
Gilead Sciences

Session 30 Sample Size Estimation (Contributed)
Room: Salem Room Room, Lower Level 1
Chair: Antai Wang
New Jersey Institute of Technology

Sample size calculation with semiparametric analysis of long term and short term hazards
Yi Wang
Novartis

Sample size and decision criteria for Phase IIIB studies with active control
Xia Xu
Merck & Co., Inc

Sample size determination for clinical trials to correlate outcomes with potential predictors
Su Chen
Abbvie

Sample Size Re-Estimation at Interim Analysis in Oncology Trials with a Time-to-Event Endpoint
Yi Zhang
Sunovion Pharmaceuticals Inc.

Statistical Inference and Sample Size Calculation for Paired Binary Outcomes with Missing Data
Song Zhang
University of Texas Southwestern Medical Center

Tuesday, June 17, 8:20 AM – 9:30 AM

Keynote session

Combining Information for Assessing Safety, Effectiveness, and Quality: Technology Diffusion and Health Policy
Sharon-Lise Normand
Professor, Department of Health Care Policy, Harvard Medical School,
Department of Biostatistics, Harvard School of Public Health

Tuesday, June 17, 10:00 AM – 12:00 PM

Session 31 Predictions in Clinical Trials (201411)
Room: Salon A, Lower Level 1
Organizer:
Yimei Li
University of Pennsylvania

Chair:
Daniel F. Heitjan
University of Pennsylvania

Predicting Smoking Cessation Outcomes Beyond Clinical Trials
Yimei Li
University of Pennsylvania

Bayesian Event And Time Landmark Estimation In Clinical Trials When Responses Are Failure Time Data
Haoda Fu
Eli Lilly and Company
Predicting the probability of future clinical study success based on the evidence from electronic medical record (EMR) data
Nan Jia
Eli Lilly and Company

Weibull Cure-Mixture Model for the Prediction of Event Times in Randomized Clinical Trials
Gui-shuang Ying
University of Pennsylvania

Session 32 Recent Advances in Statistical Genetics (201426)
Room: Salon B, Lower Level 1
Organizer:
Taesung Park
Seoul National University

Chair:
Taesung Park
Seoul National University

Longitudinal Exome-Focused GWAS of Alcohol Use in a Veteran Cohort
Zuo-heng Wang
Yale University

Type I Error in Regression Based Genetic Model Building
Heejong Sung
National Human Genome Research Institute, National Institutes of Health

GMDR: A Conceptual Framework for Detection of Multifactor Interactions Underlying Complex Traits
Xiang-Yang Lou
Alabama University

Gene-Gene Interaction Analysis for Rare Variants: Application to T2D Exome Sequencing Data
Taesung Park
Seoul National University

Session 33 Structured approach to high dimensional data with sparsity and low rank factorization (201427)
Room: Salon C, Lower Level 1
Organizer:
Yoonkyung Lee
Ohio State University

Chair:
Yoonkyung Lee
Ohio State University

Two-way Regularized Matrix Decomposition
Jianhua Huang
Texas A&M

Tensor Regression with Applications in Neuroimaging Analysis
Lexin Li
North Carolina State University

RKHS-Embedding Based Feature Screening for High-Dimensional Data
Krishnakumar Balasubramanian
Georgia Tech

Sparse Conditional Graphical Models for Structured Genetic Datasets
Hyonho Chun
Purdue University

Session 34 Recent developments in dimension reduction, variable selection and their applications (201428)
Room: Salon D, Lower Level 1
Organizer:
Xiangrong Yin
University of Georgia

Chair:
Pengsheng Ji
University of Georgia

Sufficient Reductions in Regressions with Inverse Predictors in the Exponential Family
Efstathia Bura
Georgia Washington University
Variable Selection and Model Estimation via Subtle Uprooting
Xiaogang Su
University of Texas at El Paso

Robust Variable Selection through Dimension Reduction
Qin Wang
Virginia Commonwealth University

Sparse Envelope Model: Efficient Estimation and Response Variable Selection in Multivariate Linear Regression
Zhihua Su
University of Florida

Session 35 Post-discontinuation treatment in randomized Clinical trials (201439)
Room: Salon G, Lower Level 1
Organizer:
Li Li
Eli Lilly and Company

Chair:
Li Li
Eli Lilly and Company

Marginal Structure Model with Adaptive Truncation in Estimating the Initial Treatment Effect with Informative Censoring by Subsequent Therapy
Jingyi Liu
Eli Lilly and Company

Quantile Regression Adjusting for Dependent Censoring from Semi-competiting Risks
Ruoshua Li
University of Pittsburgh

Overview of Cross-over Design
Ming Zhu
AbbVie

Cross-Payer Effects of Medicaid LTSS on Medicare Resource Use using Propensity Score Risk Profiling
Yi Huang
University of Maryland

Session 36 New advances in semi-parametric modeling and survival analysis (201430)
Room: Salon H, Lower Level 1
Organizer:
Yichuan Zhao
Georgia State University

Chair:
Xuelin Huang
The University of Texas MD Anderson Cancer Center

Bayesian Partial Linear Model for Skewed Longitudinal Data
Debdeep Pati
Florida State University

Non-parametric Inference for Inverse Probability Weighted Estimators with a Randomly Truncated Sample
Xu Zhang
University of Mississippi Medical Center

Modeling Time-Varying Effects for High-Dimensional Covariates: A New Gateau-Differential Boosting Approach
Yi Li
University of Michigan

Flexible Modeling of Survival Data with Covariates Subject to Detection Limits via Multiple Imputation
Daowen Zhang
North Carolina State University

Session 37 High-dimensional Data Analysis: Theory and Application (201432)
Room: Salon I, Lower Level 1
Organizer:
Yang Feng
Columbia University
Chair: Yang Feng
Columbia University

Structured functional additive regression in reproducing kernel Hilbert spaces
Hao Zhang
University of Arizona

High-dimensional Thresholded Regression and Shrinkage Effect
Zemin Zheng
University of Southern California

Local Independence Feature Screening for Non-parametric and Semi-parametric Models by Marginal Empirical Likelihood
Cheng Yong Tang
University of Colorado Denver

The fused Kolmogorov filter: a nonparametric model-free screening method
Qing Mai
Florida State University

Session 38 Leading across boundaries – leadership development for statisticians (201436)
Room: Eugene Room, Lower Level 1
Organizer: Ming-Dauh Wang
Eli Lilly and Company
Rochelle Fu
Oregon Health and Science University

Chair: Ming-Dauh Wang
Eli Lilly and Company

Social Broadly and Communicate Effectively
Xiao-Li Meng
Harvard University

Dipak Dey

University of Connecticut
Soonmin Park
Eli Lilly and Company

James Hung
Food and Drug Administration

Walter Offen
AbbVie

Session 39 Recent advances in Adaptive Designs in Early Phase Trials (201425)
Room: Portland Room, Lower Level 1
Organizer: Ken Cheung
Columbia University

Chair: Ken Cheung
Columbia University

A Toxicity-adaptive Isotonic Design for Combination Therapy in Oncology
Rui Qin
Mayo Clinic

Calibration of the likelihood Continual Reassessment Method for Phase I Clinical Trials
Shing Lee
Columbia University

Sequential Subset Selection Procedure of Random Subset Size for Early Phase Clinical Trials
Cheng-Shiun Leu
Columbia University

Search Procedures for the MTD in Phase I Cancer Clinical Trials
Shelemyahu Zacks
Birmingham University

Session 40 High Dimensional Regression/Machine Learning Contributed
Room: Salem Room, Lower Level 1
Variable Selection for High-Dimensional Nonparametric Ordinary Differential Equation Models With Applications to Dynamic Gene Regulatory Networks
Hongqi Xue
University of Rochester

BigData: Sign Cauchy Projections and Chi-Square Kernels
Ping Li
Rutgers

A sparse linear discriminant analysis method with asymptotic optimality for multiclass classification
Ruiyan Luo
Georgia State University

Generalized hidden Markov model for variant detection
Yichen Cheng
Fred Hutchinson Cancer Research Center

Large-Scale Joint Trait Risk Prediction for Mini-exome Sequence Data
Gengxin Li
Wright State University

Rank Estimation and Recovery of Low-rank Matrices For Factor Model with Heteroscedastic Noise
Jingsu Wang
Stanford University

Tuesday, June 17, 1:30 PM – 3:10 PM

Session 41 Distributional inference and its impact on statistical theory and practice (201403)
Room: Salon A, Lower Level 1
Organizer:
Min-ge Xie
Rutgers University

Stat Wars Episode IV: A New Hope (For Objective Inference)
Xiao-Li Meng
Harvard University

Higher Order Asymptotics for Generalized Fiducial Inference
Jan Hannig
University of North Carolina at Chapel Hill

Generalized Inferential Models
Ryan Martin
University of Illinois at Chicago

A Confidence Distribution Approach for an Efficient Network Meta-analysis
Guang Yang
Rutgers University

Session 42 Applications of Spatial Modeling and Imaging Data (201449)
Room: Salon B, Lower Level 1
Organizer:
Karen Kafadar
Indiana University

Spatial Bayesian Variable Selection and Shrinkage in High-dimensional Covariate Spaces with Application to fMRI
Tingting Zhang
University of Virginia
A Hierarchical Model for Simultaneous Detection and Estimation in Multi-Subject fMRI Studies
David Degras
DePaul University

On the Relevance of Accounting for Spatial Correlation: A Case Study from Florida
Linda Young
USDA NASS RDD

Statistical Approaches for Calibration of Climate Models
Gabriel Huerta
University of New Mexico

Session 43 Recent development in survival analysis and statistical genetics (201435)
Room: Salon C, Lower Level 1
Organizer:
Junlong Li
Kyu Ha Lee
Harvard School of Public Health

Chair:
Junlong Li
Harvard School of Public Health

Restricted Survival Time and Non-proportional Hazards
Zhigang Zhang
Memorial Sloan Kettering Cancer Center

Empirical Null using Mixture Distributions and Its Application in Local False Discovery Rate
DoHwan Park
University of Maryland

A Bayesian illness-death model for the analysis of correlated semi-competing risks data
Kyu Ha Lee
Harvard School of Public Health

Detection of Chromosome Copy Number variations in Multiple Sequences
Xiaoyi Min
Yale School of Public Health

Session 44 Bayesian Methods and Applications in Clinical Trials with Small Population (201438)
Room: Salon D, Lower Level 1
Organizer:
Alan Chiang
Eli Lilly and Company

Chair:
Ming-Dauh Wang
Eli Lilly and Company

Applications of Bayesian Meta-analytic Approach at Novartis
Qiuling (Ally) He
Novartis Pharmaceuticals

Subgroup-based Adaptive (SUBA) Designs for Multi-Arm Biomarker Trials
Yanxun Xu
The University of Texas at Austin

Innovative Designs and Practical Considerations for Pediatric Studies
Alan Chiang
Eli Lilly and Company

Discussant
Ming-Dauh Wang
Eli Lilly and Company

Session 45 Recent developments in assessing predictive models in survival analysis (201441)
Room: Salon G, Lower Level 1
Organizer:
Ming Wang
Penn State College of Medicine

Chair:
Lijun Zhang
Penn State College of Medicine
partDSA for Deriving Survival Risk Grouos, Ensemble Learning and Variable Selection
Annette Molinaro
University of California at San Francisco

Predictive Accuracy of Time-dependent Markers for Survival Outcomes
Li Chen
University of Kentucky

Estimating the Effectiveness in HIV Prevention Trials by Incorporating the Exposure Process: Application to HPTN 035 Data
Jingyang Zhang
Fred Hutchinson Cancer Research Center

Estimation of Predictive Accuracy of Survival Regression Models Adjusting for Dependent Censoring and/or High-dimensional Data
Ming Wang
Penn State College of Medicine

Session 46 Missing Data: the Interface between Survey Sampling and Biostatistics (201442)
Room: Salon H, Lower Level 1
Organizer: Jiwei Zhao
University of Waterloo

Chair:
Peisong Han
University of Waterloo

Likelihood-based Inference with Missing Data under Missing-at-random
Jae-Kwang Kim
Iowa State University

Generalized Method of Moments Estimator Based on Semi-parametric Quantile Regression Imputation
Senning Chen
Iowa State University

A New Estimation with Minimum Trace of Asymptotic Covariance Matrix for Incomplete Longitudinal Data with a Surrogate Process
Baojiang Chen
University of Nebraska

Adaptive Multi-phase Sampling for Asymptotically-optimal Mean Score Analyses
Michael McIsaac
Queen’s University

Session 47 New statistical methods for comparative effectiveness research and personalized medicine (201443)
Room: Salon I, Lower Level 1
Organizer: Jane Paik Kim
Stanford University School of Medicine

Chair:
Jane Paik Kim
Stanford University School of Medicine

Efficient Design for Prospective Observational Studies
Yu Shen
The University of Texas MD Anderson Cancer Center

Choice between Superiority and Non-inferiority in Comparative Effectiveness Experiments
Mei-Chiung Shih
Stanford University

An Adaptive Design Approach for Studying Dynamic Treatment Regimes in Pragmatic Trials Setting
Michael Baiocchi
Stanford University
Improving efficiency in the estimation of the effect of treatment on a multinomial outcome
Iván Díaz
Johns Hopkins School of Public Health

Session 48 Student award session (201467)
Room: Portland Room, Lower Level 1
Chair: Zhenzhe Jin
Columbia University

Regularization after retention in ultrahigh dimensional linear regression models
Haolei Weng
Columbia University

Personalized dose finding using outcome weighted learning (ASA Biopharmaceutical Section Award)
Guanhua Chen
The University of North Carolina, Chapel Hill

Survival rates prediction when training data and target data have different measurement error
Cheng Zheng
Fred Hutchinson Cancer Research Center

Thresholded Regression Via Linear Programming
Qiang Sun
University of North Carolina-Chapel Hill

Session 49 Network Analysis/Unsupervised Methods (Contributed)
Room: Eugene Room, Lower Level 1
Chair: Chunming Zhang
University of Wisconsin

Community Detection in Multilayer Networks: A Hypothesis Testing Approach
James Wilson
University of North Carolina, Chapel Hill

Network-based Pathway Enrichment Analysis with Incomplete Network Information
Jing Ma
University of Michigan

Estimation of A Linear Model with Fuzzy Data Treated as Special Functional Data
Dabuxilatu Wang
Guangzhou University

Efficient estimation of sparse directed acyclic graphs under compounded Poisson data
Sung Won Han
New York University

Asymptotically Normal and Efficient Estimation of Covariate-Adjusted Gaussian Graphical Model
Zhao Ren
Yale University

Session 50 Personalized Medicine and Adaptive Design (Contributed)
Room: Salem Room, Lower Level 1
Chair: Danping Liu
NIH

MicroRNA Array Normalization
Li-Xuan Qin
Memorial Sloan Kettering Cancer Center

Combining Multiple Biomarker Models with covariates in Logistic Regression using modified ARM (adaptive regression by mixing) approach
Rong Liu
Bayer

A new association test for case-control GWAS based on disease allele selection
Zhongxue Chen
Indiana University Bloomington
On classification methods for personalized medicine and individualized treatment rules
Daniel Rubin
FDA

Bayesian Adaptive Design for Dose-Finding Studies with Delayed Binary Responses
Xiaobi Huang
Merck & Co., Inc

Tuesday, June 17, 3:30 PM – 5:30 PM

Session 51 New Development in Functional Data Analysis (201444)
Room: Salon A, Lower Level 1
Organizer: Guanqun Cao
Auburn University

Variable Selection and Estimation for Longitudinal Survey Data
Guannan Wang
University of Georgia

Estimation of Nonlinear Differential Equation Model Using Generalized Smoothing
Tatiyana Apanasovich
George Washington University

A functional data approach to modeling brain image data
Yihong Zhao
New York University

Estimation in Functional Linear Quantile Regression
Linglong Kong
University of Alberta

Statistical Considerations for the Development of Biosimilar Products
Eric Chi
Amgen

New Analytical Methods for Non-Inferiority Trials: Covariate Adjustment and Sensitivity Analysis
Zhiwei Zhang
Food and Drug administration

Where is the right balance for designing an efficient biosimilar clinical program? - A Biostatistic perspective on appropriate applications of statistical principles from new drug to biosimilars
Yulan Li
Novartis Pharmaceuticals

Statistical considerations for setting threshold in single arm studies
Greg Soon
FDA

GSK’s Patient-level Data Sharing Program
Shuyen Ho
GSK

Session 52 Recent Regulatory/Industry Experience in Biosimilar Trial Designs (201445)
Room: Salon B, Lower Level 1
Organizer: Gang Li
Johnson & Johnson

Chair:
Yi Wang
Novartis

Statistical Considerations for the Development of Biosimilar Products
Eric Chi
Amgen

New Analytical Methods for Non-Inferiority Trials: Covariate Adjustment and Sensitivity Analysis
Zhiwei Zhang
Food and Drug administration

Where is the right balance for designing an efficient biosimilar clinical program? - A Biostatistic perspective on appropriate applications of statistical principles from new drug to biosimilars
Yulan Li
Novartis Pharmaceuticals

Statistical considerations for setting threshold in single arm studies
Greg Soon
FDA

GSK’s Patient-level Data Sharing Program
Shuyen Ho
GSK

Session 53 Gatekeeping procedures and their application in pivotal clinical trials (201446)
Room: Salon C, Lower Level 1
Organizer: Michael Lee
Johnson & Johnson
Chair:
Michael Lee
Johnson & Johnson

A General Multistage Procedure for k-out-of-n Gatekeeping
Dong Xi
Novartis Pharmaceuticals Corporation

Multiple Comparisons in Complex Trial Designs
James Hung
Food and Drug Administration

Use of Bootstrapping in Adaptive Designs with Multiplicity Issues
Jeff Maca
Quintiles

Evaluating Commonly Used Multiple Testing Procedures in Drug Development
Michael Lee
Janssen R&D

Session 54 Approaches to Assessing Qualitative Interactions (201447)
Room: Salon D, Lower Level 1
Organizer:
Guohua (James) Pan
Johnson & Johnson

Chair:
Guohua (James) Pan
Johnson & Johnson

Interval Based Graphical Approach to Assessing Qualitative Interaction
Eun Young Suh
Johnson & Johnson

Expected Variation and Quantitative and Qualitative Interaction in Clinical Trials
Xiaolong Luo
Celegene Corporation

A Bayesian Approach to Qualitative Interaction
Emine Bayman
University of Iowa

Comments on Methods for Assessing Qualitative Interaction
Surya Mohanty
Johnson & Johnson

Session 55 Interim decision-making in phase II trials (201448)
Room: Salon G, Lower Level 1
Organizer:
Lanju Zhang

Chair:
Lanju Zhang
AbbVie

Evaluation of Interim Dose Selection Methods Using ROC Approach
Deli Wang
AbbVie

Interim Monitoring for Futility Based on Probability of Success
Yijie Zhou
AbbVie

Bayesian Adaptive Design in Oncology Early Phase Trials
Yuehui Wu
GlaxoSmithKline

Discussant
Peng Chen
Celegene

Session 56 Recent Advancement in Statistical Methods (201451)
Room: Salon H, Lower Level 1
Organizer:
Dongseok Choi
Oregon Health & Science University

Chair:
Dongseok Choi  
Oregon Health & Science University  

Authors Disambiguation by Data Mining Approaches  
Djamel Zighed  
Institut des Sciences de L’Homme  

Exact Inference: New Methods and Applications  
Ian Dinwoodie  
Portland State University  

Optimal Thresholds Criteria and Standardized Criterion of VUS for ROC Surface  
Chong Sun Hong  
Sungkyunkwan University  

Analysis of Cointegrated Models with Measurement Errors  
Sung Ahn  
Washington State University  

Session 57 Building Bridges between Research and Practice in Time Series Analysis (201453)  
Room: Salon I, Lower Level 1  
Organizer:  
Jane Chu  
IBM/SPSS  

Chair:  
Jane Chu  
IBM/SPSS  

Temporal causal modeling: methodology, applications and implementation  
Naoki Abe  
IBM T.J. Watson Research Center  

Time Series Research at the U. S. Census Bureau  
Brian Monsell  
US Census Beurau  

Issues Related to the Use of Time Series in Model Building and Analysis  
William Wei  
Temple University  

Discussant  
George Tiao  
University of Chicago  

Session 58 Recent advances in design for Biostatistical problems (201454)  
Room: Eugene Room, Lower Level 1  
Organizer:  
Weng Kee Wong  
University of California Los Angeles  

Chair:  
Weng Kee Wong  
University of California Los Angeles  

Optimal Designs for N-of-1 Trials  
Keumhee Chough  
University of Alberta  

Efficient Algorithms for Two-stage Designs on Phase II Clinical Trials  
Seongho Kim  
Wayne State University School of Medicine  

D-optimal designs for multivariate Exponential and Poisson regression models via ultra-dimensional particle swarm optimization  
Weng Kee Wong  
University of California Los Angeles  

Optimizing Two-level Supersaturated Designs by Particle Swarm Techniques  
Frederick Kin Hing Phoa  
Academic Sinica in Taipei  

Session 59 Student award session2 (201468)  
Room: Portland Room, Lower Level 1  
Chair:  
Wenqing He
University of Western Ontario

**Analysis of Sequence Data Under Multivariate Trait-Dependent Sampling**
Ran Tao
University of North Carolina, Chapel Hill

**Empirical likelihood based tests for stochastic ordering under right censorship**
Hsin-Wen Chang
Columbia University

**Multiple Genetic Loci Mapping for Latent Disease Liability Using a Structural Equation Modeling Approach with Application in Alzheimer’s Disease**
Ting-Huei Chen
University of North Carolina at Chapel Hill

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Temple University

**Nonparametric Quantile Regression via a New MM Algorithm**
Bo Kai
College of Charleston

**Regression Estimators Using Stratified Ranked Set Sampling**
Jingxian Cai
Georgia Southern University

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**Banquet**

*The World of Statistics*
Sastry Pantula
Dean, College of Science, Oregon State University and former President of the American Statistical Association

**Wednesday, June 18, 8:30 AM – 10:10 AM**

**Session 61 Statistical Challenges in variable selection for graphical modeling (201401)**
Room: Salon A, Lower Level 1
Organizer:
Hua (Judy) Zhong
Sung Won Han
New York University School of Medicine

Chair:
Hua (Judy) Zhong
New York University School of Medicine

**Fused Community Detection**
Yang Feng
Columbia University

**High Dimensional Tests for Multi-level Brain Networks**
Jichun Xie
Temple University

**Bayesian inference of multiple Gaussian graphical models**
Christine Peterson
Stanford University

Mixed Graphical Models via Exponential Families
Yulia Baker
Rice University

Session 62 Recent advances in non- and semi-parametric methods (201408)
Room: Salon B, Lower Level 1
Organizer:
Lan Xue
Oregon State University

Chair:
Guanqun Cao
Auburn University

Joint Estimation of Multiple Bivariate Densities of Protein Backbone Angles Using an Adaptive Exponential Spline Family
Lan Zhou
Texas A&M University

Estimating Time-varying Effects for Over-dispersed Recurrent Data with Treatment Switching
Qingxia Chen
Vanderbilt University

Session 63 Statistical challenges and development in cancer screening research (201417)
Room: Salon C, Lower Level 1
Organizer:
Yu Shen
The University of Texas MD Anderson Cancer Center

Overdiagnosis in Breast and Prostate Cancer Screening: Concepts, Methods, and Challenges
Ruth Etzioni
Fred Hutchinson Cancer Research Center

Estimation of Biomarker Growth in a Screening Study
Lurdes Inoue
University of Washington

Estimating Screening Test Effectiveness when Indication for Examination is Unknown
Rebecca Hubbard
Group Health Research Institute

Developing risk-based screening guidelines: “Equal management of equal risks”
Hormuzd Katki
National Cancer Institute

Chair:
Yu Shen
The University of Texas MD Anderson Cancer Center

Recent Advancement in Geovisualization, with a Case Study on Chinese religions
Juergen Symanzik
Utah State University

Spatial Analysis with China Geo-Explorer
Shuming Bao
University of Michigan

*Probcast: Creating and Visualizing Probabilistic Weather Forecasts*
McLean Sloughter
Seattle University

*Discussant*
Karen Kafadar
Indiana University

**Session 65 Advancement in Biostatistical Methods and Applications (201455)**
Room: Salon G, Lower Level 1
Organizer:
Sin-ho Jung
Duke University

Chair:
Dongseok Choi
Oregon Health & Science University

*Estimation of Time-Dependent AUC under Marker-Dependent Sampling*
Xiaofei Wang
Duke University

*A Measurement Error Approach for Modeling Accelerometer-based Physical Activity Data*
Jungwha (Julia) Lee

*Real-Time Prediction in Clinical trials: A Statistical History of REMATCH*
Daniel Heitjan
University of Pennsylvania

*An Analysis of Microarray Data with Batch Effects*
Dongseok Choi
Oregon Health & Science University

**Session 66 Analysis of complex data (201457)**
Room: Salon H, Lower Level 1
Organizer:
Mesbah Mounir
University of Paris 6

Chair:
Mesbah Mounir
University of Paris 6

*Integrating Data from Heterogeneous Studies Using Only Summary Statistics: Efficiency and Robustness*
Min-ge Xie
Rutgers University

*A Markov Modulated Poisson Model for Reliability Data*
Joshua Landon
George Washington University

*A Comparison of Two Approaches for Acute Leukemia Patient Classification*
Jingjing Wu
University of Calgary

*On the Consistency and Covariate Selections for Varying Coefficient Deming Regressions*
Ying Lu
Stanford University

**Session 67 Statistical issues in co-development of drug and biomarker (201459)**
Room: Salon I, Lower Level 1
Organizer:
Liang Fang
Gilead Sciences

Chair:
Liang Fang
Gilead Sciences

*Group sequential designs for developing and testing biomarker-guided personalized therapies in comparative effectiveness research*
Dong Woo Kim
Stanford University
Adaptive Enrichment Designs for Clinical Trials
Noah Simon
University of Washington

An Adaptive Single-Arm Phase II Design with Co-primary Objectives to Evaluate Activity Overall and In Relation to a Biomarker-Defined Subgroup
Michael Wolf
Amgen

Biomarker Threshold Estimation to Predict Clinical Benefit: What Can Reasonably be Learned during Early (PhI/II) oncology development?
Thomas Bengtsson
Genentech

Session 68 New challenges for statistical analyst/programmer (201462)
Room: Eugene Room, Lower Level 1
Organizer:
Xianming (Steve) Zheng
Eli Lilly and Company

Chair:
Xianming (Steve) Zheng
Eli Lilly and Company

Similarities and Differences in Statistical Programming among CRO and Pharmaceutical Industries
Mark Matthews
inVentive Health Clinical

Computational Aspects for Detecting Safety Signals in Clinical Trials
Jyoti Rayamajhi
Eli Lilly and Company

Bayesian Network Meta-analysis methods: an Overview and a Case Study
Baoguang Han
Eli Lilly and Company

Session 69 Adaptive and Sequential Methods for Clinical Trials (201405)
Room: Portland Room, Lower Level 1
Organizer:
Zhengjia Chen
Emory University

Chair:
Zhengjia Chen
Emory University

Bayesian Data Augmentation Dose Finding with Continual Reassessment Method and Delayed Toxicities
Ying Yuan
The University of Texas MD Anderson Cancer Center

Optimal Marker-strategy Clinical Trial Design to Detect Predictive Markers for Targeted Therapy
Yong Zang
The University of Texas MD Anderson Cancer Center

Dynamic Prediction of Time to Relapse Using Longitudinal Biomarker data
Xuelin Huang
The University of Texas MD Anderson Cancer Center

Continuous Tumor Size Change Percentage and Progression Free Survival as Endpoint of the First and Second Stage Respectively in a Novel Double Screening Phase II Design
Ye Cui
ICF International

Wednesday, June 18, 10:30 AM – 12:10 PM

Session 70 Survival Analysis (Contributed)
Room: Portland Room, Lower Level 1
Chair:
Joan Hu
Simon Fraser University
Comparison of Hazard, Rate and Odds Ratio in the Two-Sample Survival Problem
Benedict Dormitorio
Western Michigan University

Predicting the Event Time in Multicenter Clinical Trials with Time-to-Event Outcome as Primary Endpoint
Nibedita Bandyopadhyay
Janssen Research & Development

A direct method to evaluate the time-dependent predictive accuracy for biomarkers
Weining Shen
MD Anderson Cancer Center

Empirical Comparison of Small Sample Performance for the Logrank Test and Resampling Methods with High Censoring Rates
Yu Deng
University of North Carolina, Chapel Hill

Biomarker cutoff in clinical trials with time-to-event endpoints
Xiaoyun (Nicole) Li
Merch & Co., Inc

Session 71 Complex Data Analysis: Theory and Application (201433)
Room: Salon A, Lower Level 1
Organizer:
Yang Feng
Columbia University

Chair:
Yang Feng
Columbia University

Supervised Singular Value Decomposition and Its Asymptotic Properties
Haipeng Shen
University of North Carolina at Chapel Hill

New methods for interaction selection
University of Arizona

Ning Hao
A Statistical Approach to Set Classification by Feature Selection with Applications to Classification of Histopathology Images
Xingye Qiao
Binghamton University

A Smoothing Spline Model for Analyzing dMRI Data of Swallowing
Yixin Fang
New York University

Session 72 Recent Development in Statistics Methods for Missing Data (201404)
Room: Salon B, Lower Level 1
Organizer:
Nanhua Zhang
Cincinnati Children’s Hospital Medical Center

Chair:
Haoda Fu
Eli Lilly and Company

A Semi-parametric Inference to Regression Analysis with Missing Covariates in Survey Data
Shu Yang
Iowa State University

Multiple Robustness in Missing Data Analysis
Peisong Han
University of Waterloo

Imputation of Binary Variables with SAS and IVEware
Yi Pan
Centers for Disease Control and Prevention

Marginal Treatment Effect Estimation Using Pattern-Mixture Model
Zhenzhen Xu
Food and Drug Administration
Session 73 Machine learning methods for causal inference in health studies (201412)
Room: Salon C, Lower Level 1
Organizer:
Mi-Ok Kim
Cincinnati Children's Hospital Medical Center

Chair:
Mi-Ok Kim
Cincinnati Children's Hospital Medical Center

Causal Inference of Interaction Effects with Inverse Propensity Weighting, G-Computation and Tree-based Standardization
Joseph Kang
Northwestern University

Practice of Causal Inference with Propensity of Being Zero or One
Wendy Chan
Northwestern University

Propensity Score and Proximity Matching Using Random Forecast
Juanjuan Fan
San Diego State University

Discussant
Joseph Kang
Northwestern University

Session 74 J.P Hsu memorial session (201464)
Room: Salon D, Lower Level 1
Organizer:
Lili Yu and Karl Peace
Georgia Southern University

Chair: Lili Yu
Georgia Southern University

Weighted Least-Squares Method for Right-Censored Data in Accelerated Failure Time Model
Lili Yu
Georgia Southern University
Estimating a Change-Point in High-Dimensional Markov Random Field Models
Sandipan Roy (JP Hsu Award)
University of Michigan

A Comparison of Size and Power of Tests of Hypotheses on Parameters Based on Two Generalized Lindley Distributions
Macaulay Okwuokenye
Biogen Idec

Macaulay Endorse
Biogen Idec

Session 75 Challenge and new development in model fitting and selection (201465)
Room: Salon G, Lower Level 1
Organizer:
Zhezhen Jin
Columbia University

Chair:
Cuiling Wang
Yeshiva University

Robust Estimates of Divergence Times and Selection with a Poisson Random Field Nevada
Amei Amei
University of Nevada

On A Class of Maximum Empirical Likelihood Estimators Defined by Convex Functions
Fei Tan
Indiana University-Purdue University Indianapolis
Properties of the Marginal Survival Functions for Dependent Censored Data under an assumed Archimedean Copula
Antai Wang
New Jersey Institute of Technology

Dual Model Misspecification in Generalized Linear Models with Error in Variables
Xianzheng Huang
University of Carolina

Session 76 Advanced Methods and Their Applications in Survival Analysis (201466)
Room: Salon H, Lower Level 1
Organizer:
Jiajia Zhang
University of South Carolina
Wenbin Lu
North Carolina State University

Chair:
Jiajia Zhang
University of South Carolina

Kernel Smoothed Profile Likelihood Estimation in the Accelerated Failure Time Frailty Model for Clustered Survival Data
Jiajia Zhang
University of South Carolina

Model-free Screening for Lifetime Data Analysis with Ultra-dimensional Biomarker: Survival Impacting
Qi Zheng
Emory University

Analysis of Event History Data in Tuberculosis (TB) Screening
Joan Hu
Simon Frazer University

On the Dependence Structure of Bivariate Recurrent Event Processes: Inference and Estimation
Jing Ning
MD Anderson Cancer Center

Session 77 High dimensional variable selection and multiple testing (201434)
Room: Salon I, Lower Level 1
Organizer:
Zhigen Zhao
Temple University

Chair:
Jichun Xie
Temple University

On Procedures Controlling the False Discovery Rate for Testing Hierarchically Ordered
Wenge Guo
New Jersey Institute of Technology

Sufficient Dimension Reduction in Binary Classification
Yichao Wu
North Carolina State University

Rate Optimal Multiple Testing Procedure (ROMP) in High-dimensional Regression
Pengsheng Ji
University of Georgia at Athens

Pathwise Calibrated Active Shooting Algorithm with Application to Semiparametric Graph Estimation
Han Liu
Princeton University