



INTERNATIONAL CHINESE STATISTICAL ASSOCIATION

泛華統計協會

**The Eighth ICSA International Conference:
Frontiers of Interdisciplinary and
Methodological Statistical Research**

**Jointly organized by the College of Mathematics and
Information Sciences, Guangzhou University**

Conference Program

Guangzhou University, Guangzhou, China

December 19-22, 2010

Co-Sponsors

American Statistical Association



Chinese Association of Applied Statistics

Chinese Society of Probability and Statistics

Institute of Mathematical Statistics



International Society for Bayesian Analysis (ISBA)



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Part I

Conference Program

Saturday, December 18, 2010

9:00am-8:00pm: Registration

Locations: **Nanyang King's Gate Hotel Lobby, and
Guangzhou University Academic Exchange Center**

Sunday, December 19, 2010

7:00am-8:30am: Registration, Guangzhou University (New Campus).

8:30am-9:00am: **Opening Ceremony** (The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅)

Chair: Ming-Hui Chen, Professor, ICSA Executive Director, Coordinator of the Program Committee, University of Connecticut

8:30am-8:35am: Welcome Remarks: **Guangfu Cao**, Professor, Dean of the College of Mathematics and Information Sciences, Guangzhou University

8:35am-8:40am: Welcome Remarks: **Jianshe Yu**, Professor, President of Guangzhou University

8:40am-8:45am: Welcome Remarks: **Xuming He**, Professor, President of ICSA, University of Illinois

8:45am-8:50am: Welcome Remarks: **Bin Yu**, Professor, Co-Chair of the Program Committee, University of California at Berkley

8:50am-8:55am: Welcome Remarks: **Zhi-Ming Ma**, Professor, Co-Chair of the Program Committee, Chinese Academy of Sciences, Beijing

8:55am-9:00am: Conference Logistics: **Yuan Li**, Professor, Co-Chair of the Local Committee, Guangzhou University

9:00am-9:30am: Group Photo

9:30am-10:30am: **Plenary Session 1**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Peter Guttorp (University of Washington and Norwegian Computing Center)
Of What Use Is a Statistician in Climate Research?

Chair: Bin Yu (University of California at Berkley)

10:30am-10:50am: coffee/tea break

10:50am-11:50am: **Plenary Session 2**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Chao Agnes Hsiung (Institute of Population Health Sciences and National Health Research Institutes)

Shape-Restricted Bayesian Inference using Bernstein Polynomials with Applications in Biomedical Research

Chair: Yoav Benjamini (Tel Aviv University)

12:00am-1:00pm: **Plenary Session 3**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Hans R. Künsch (ETH Zurich)

Interactions between Deterministic and Stochastic Models in Environmental Sciences

Chair: Xuming He (University of Illinois)

1:00pm-2:00pm: Lunch

2:00pm-3:00pm: **Plenary Session 4**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Shige Peng (Shandong University)

Probability and Distribution Model Uncertainties and Nonlinear Expectations

Chair: Zhi-Ming Ma (Chinese Academy of Sciences)

3:10pm-4:10pm: **Plenary Session 5**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Qihua Wang (Chinese Academy of Sciences)

Sufficient Dimension Reduction with Missing Response at Random

Chair: Zhi Geng (Peking University)

4:10pm-4:30pm: coffee/tea break

4:30pm-5:30pm: **Plenary Session 6**, The Fifth Floor Lecture Hall near the Library, 图书馆附楼的五楼学术报告厅, Guangzhou University (New Campus)

Mike West (Duke University)

Recent Advances in Bayesian Modelling for Time Series and Spatio-Temporal Problems

Chair: Ming-Hui Chen (University of Connecticut)

6:30pm-9:30pm: **Banquet** (New South Sea Seafood Restaurant)

Monday, December 20, 2010

Location: Guangzhou University (Guihuagang Campus)

7:30am-8:20am: Conference Registration

Parallel Sessions 1 (8:20am-10:10am)

1A. Invited Session (44): *Recent Advances in Design of Experiments,* Academic Exchange Center Room A

Organizer: Peter Z. G. Qian, University of Wisconsin-Madison, USA

Chair: C. Devon Lin, Queen's University, Canada

8:25am *Multistratum Fractional Factorial Designs*

Ching-Shui Cheng, University of California, Berkeley, USA

8:50am *Two-stage Sensitivity-based Group Screening in Computer Experiments*

Thomas J. Santner, The Ohio State University, USA

9:15am *Designs for the Lasso*

Xinwei Deng, University of Wisconsin-Madison, USA

9:40am *Recent Advances in Computer Experiments*

Dennis Lin, The Pennsylvania State University, USA

10:05am **Floor Discussion**

1B. Invited Session (58): *Challenges and Opportunities of Properly Designing and Effectively Conducting Clinical Trials for Successful Regulatory Approval in the Current Environment,* Academic Exchange Center Room B

Organizer and Chair: Jie Tang, Pfizer Inc, USA

8:25am *Design and Interim Data Analysis of Clinical Trials*

Kuang-Kuo Gordon Lan, Johnson & Johnson PRD, USA

8:55am *Projecting Interim and Final Analysis Time for Oncology Trial*

Jie Tang, Pfizer Inc, Oncology Business Unit, USA

9:25am *Experience in Interacting with US FDA for Late-phase Trials*

Zhen (Robert) Luo, Pfizer Inc., USA

9:55am **Floor Discussion**

**1C. Invited Session (15): *Recent Advances in Large-Scale Multiple Testing*,
Teaching Building 202**

Organizer: Wenguang Sun, North Carolina State University, USA

Chair: Sijian Wang, University of Wisconsin, USA

8:25am *False Discovery Rate Control with Groups*
Harrison Zhou, Yale University, USA

8:55am *Optimal Screening for Sparse Signals*
Wenguang Sun, North Carolina State University, USA

9:25am *On Multiple Testing and the Monotone Likelihood Ratio Condition*
Hongyuan Cao, University of Chicago, USA

9:55am **Floor Discussion**

**1D. Invited Session (1): *Informatics and Measurement Errors*,
Teaching Building 203**

Organizers: Bin Wang, University of South Alabama, USA; and
Xiangrong Yin, University of Georgia, USA

Chair: Zhaohai Li, George Washington University, USA

8:25am *nFCA: Numerical Formal Concept Analysis*
Jiayang Sun, Case Western Reserve University, USA

8:55am *Semiparametric Deconvolution in Gene Array Background Correction*
Xiao-Feng Wang, Cleveland Clinic Foundation, USA

9:25am *Normalizing MicroRNA Microarray Data Based on a Measurement Error Model*
Bin Wang, University of South Alabama, USA

9:55am **Floor Discussion**

**1E. Invited Session (27): *Bayesian Models for Bioinformatics Data*,
Teaching Building 204**

Organizer: Yuan Ji, University of Texas M. D. Anderson Cancer Center, USA

Chair: Donatello Telesca, University of California at Los Angeles, USA

8:25am *Bayesian Functional Methods for Copy Number Data*
Veera Baladandayuthapani, University of Texas M. D. Anderson Cancer Center, USA

8:55am *Bayesian Models for the Integration of mRNA expression and DNA Copy Number Data*

Yuan Ji, University of Texas M. D. Anderson Cancer Center, USA

9:25am *Differential Analysis to Identify Genome-wide DNA Methylation Markers Using Enrichment-based Sequencing Data*

Bo Hu, The Cleveland Clinic Foundation, USA

9:55am **Floor Discussion**

1F. Invited Session (46): *Financial Engineering: Modeling and Simulation*, Teaching Building 205

Organizer: Nan Chen, The Chinese University of Hong Kong, Hong Kong

Chair: Yanchu Liu, The Chinese University of Hong Kong, Hong Kong

8:25am *Energy Portfolio Investment with Entry Decisions*

Zhen Liu, Missouri University of Science and Technology, USA

8:50am *Portfolio Selection with Law-invariant Coherent Risk Measures*

Xuedong He, Columbia University, USA

9:15am *Monte Carlo Methods on American-style Option Sensitivity Analysis*

Yanchu Liu, The Chinese University of Hong Kong, Hong Kong

9:40am *Importance Sampling for Risk Contributions of Credit Portfolios*

Guangwu Liu, City University of Hong Kong, Hong Kong

10:05am **Floor Discussion**

1G. Invited Session (17): *Modern Spatial Statistics*, Teaching Building 207

Organizer and Chair: Ji Meng Loh, AT&T-Labs, USA

8:25am *Decomposition of Variance for Spatial Cox Processes*

Ramus Waagepetersen, Aalborg University, UK

8:55am *On a Generalization of Neyman-Scott Process*

Chun Yip Yau, The Chinese University of Hong Kong, Hong Kong

9:25am *Nonparametric Bayesian Inference for the Spectral Density Function of a Random Field*

Yanbing Zheng, University of Kentucky, USA

9:55am **Floor Discussion**

1H. Contributed Session (1): *Bayesian Methods and Computations with Applications*, Academic Exchange Center 302

Chair: Xun Jiang, University of Connecticut, USA

8:25am ***Reversible Jump Markov Chain Monte Carlo Analysis of Multiple Changes in Volcano's Eruption Periods***

Jianguo Wang, Duke University, USA

8:55am ***Bayesian Modeling and Inference for Meta Data with Applications***

Hui Yao, University of Connecticut, USA

9:25am ***An Approach for Calculation of Asymptotic Variance of Bayesian Estimators***

Alexander Novikov, University of Technology, Sydney, Australia

9:55am **Floor Discussion**

1I. Contributed Session (2): *Modern Statistical Inference and Methods with Applications*, Academic Exchange Center 307

Chair: Henry Hsu, CBER, US Food and Drug Administration, USA

8:25am ***Applied Classification Support Vector Machine for Providing Second Opinion of Breast Cancer Diagnosis***

Medhat Mohamed Ahmed Abdelaal, Ain Shams University, Egypt

8:45am ***A New Biomarker for Measuring Cardiovascular Behavior Using Functional Data Analytic Approach***

Yingchun Zhou, East China Normal University, China

9:05am ***Statistical Edge Detection for Brain tumor Based on Multi-modality MR Images***

Qian Zhao, Guangzhou Medical University, China

9:25am ***Evaluation of Delayed Effect in Therapeutic Cancer Vaccine Trials***

Boguang Zhen, CBER, US Food and Drug Administration, USA

9:45am ***Maximum Likelihood Method for Linear Transformation Models with Cohort Sampling Data***

Yuan Yao, Hong Kong University of Science and Technology, Hong Kong

10:05am **Floor Discussion**

Coffee/Tea Break (10:10am-10:30am)

Parallel Sessions 2 (10:30am-12:20pm)

**2A. Invited Session (52): *Optimum Experimental Designs,*
Academic Exchange Center Room A**

Organizer: Weng Kee Wong, University of California at Los Angeles, USA

Chair: Chongqi Zhang, Guangzhou University, China

10:35am *Construction of Uniform Designs with a Large Size*

Kai-Tai Fang, BNU-HKBU United International College, China

11:00am *Design Efficiency for Component Amount Models Homogeneous of Degree One*

Ralf-Dieter Hilgers, Institute of Medical Statistics, RWTH Aachen, Germany

11:25am *Exact D-optimal Designs for Linear Log Contrast Models*

Mong Na Huang, National Sun Yat-Sen University, Kaoshiung, Taiwan

11:50am *Optimal Design Strategies for Detecting Hormesis*

Weng Kee Wong, University of California at Los Angeles, USA

12:15pm **Floor Discussion**

**2B. Invited Session (32): *Multi-Regional Clinical Trials: Regulatory
Perspectives/Case Studies,* Academic Exchange Center Room B**

Organizers: Brent Burger, Cytel, Inc., USA, Yoko Tanaka, Eli Lilly, USA, and

Bruce Binkowitz, Merck, USA

Chair: Bruce Binkowitz, Merck, USA

10:35am *Evaluation of Multi-Regional Clinical Trials: Statistical and Other Issues*

Yuki Ando, PMDA, Japan

11:00am *A Bayesian Approach to Evaluating Regional Treatment Effect in a Multiregional Trial*

Mey Wang, Center for Drug Evaluation, Taiwan

11:25am *Evaluation of Regional Treatment Effect in a Multi-Regional Clinical Trial*

Yi Tsong, Center for Drug Evaluation, U.S. FDA

11:50am *Practical Considerations Using MRCT Data in Drug Development*

Ning Li, Sanofi-Aventis, China

12:15pm **Floor Discussion**

**2C. Invited Session (3): *High Dimensional Data Analysis,*
Teaching Building 202**

Organizer: Xiangrong Yin, University of Georgia, USA

Chair: Bin Wang, University of South Alabama, USA

10:35am *A Dimensionality Test for Sliced Mean Variance-Covariance Inverse Regression*
Simon Sheather, Texas A & M University, USA

11:05am *Data Visualization with OnTheMap*
Jeremy Wu, US Census Bureau, USA

11:35am *Sufficient Dimension Reduction Based on the Hellinger Integral: A General,
Unifying Approach*
Xiangrong Yin, University of Georgia, USA

12:05pm **Floor Discussion**

**2D. Invited Session (26): *Bayesian Inference and Application,*
Teaching Building 203**

Organizer: Ming-Hui Chen, University of Connecticut, USA

Chair: Dipak K. Dey, University of Connecticut, USA

10:35am *Bayesian Analysis of Variance*
Dongchu Sun, University of Missouri, USA

11:05am *Bayesian Empirical Likelihood for Small Area Estimation*
Malay Ghosh, University of Florida, USA

11:35am *Default Bayesian Analysis for Multivariate Generalized CAR Models*
Taps Maiti, Michigan State University, USA

12:05pm **Floor Discussion**

**2E. Invited Session (37): *Modeling Spatial/Temporal Variations of Ambient
Pollutant Concentrations,* Teaching Building 204**

Organizers: Jason G. Su, University of California, Berkeley, USA and
Hwa-Lung Yu, National Taiwan University, Taiwan

Chair: Jason G. Su, University of California, Berkeley, USA

10:35am *A Two-Stage Spatiotemporal Model Incorporating Land Use Regression for
Predicting Fine Particulate Matter Concentrations in the Taipei Metropolitan Area*
Chu-Chi Chen, National Health Research Institute, Taipei, Taiwan

11:05am *Retrospective Prediction of Intraurban Spatiotemporal Distribution of PM_{2.5} in Taipei*

Hwa-Lung Yu, National Taiwan University, Taipei, Taiwan

11:35am *Modeling Long-term Average Traffic Related Pollutant Concentrations at Los Angeles Megalopolis for Children's Asthma Study*

Jason G. Su, University of California, Berkeley, USA

12:05pm **Floor Discussion**

2F. Invited Session (47): Mean-variance Portfolio Selection and Mean-variance Hedging, Teaching Building 205

Organizer and Chair: Jia-An Yan, Chinese Academy of Sciences, China

10:35am *Continuous-time Mean-variance Model with only Risky Assets*

Zhongfei Li, Sun Yat-sen University, China

11:00am *The Compatible Bond-stock Market with Jumps*

Dewen Xiong, Shanghai Jiaotong University, China

11:25am *A New Look at Markowitz's Mean-variance Portfolio Selection*

Jia-An Yan, Chinese Academy of Sciences, China

11:50am *Varying-Coefficient Multidimensional Cluster Data Regression Models: An Example of STARS Database of the World Bank*

Yong Zhou, Chinese Academy of Sciences & Shanghai University of Finance and Economics, China

12:15pm **Floor Discussion**

2G. Invited Session (45): Data Depth and Applications, Teaching Building 207

Organizer: Yijun Zuo, Michigan State University, USA

Chair: Xuming He, University of Illinois, USA

10:35am *Local Depth*

Matio Romanazzi, Ca' Foscari University of Venice, Italy

11:05am *A Spatial Depth based Dimension Reduction Method*

Shojaeddin Chenouri, University of Waterloo, Canada

11:35am *Depth-based Analysis of Sparse Functional Data*

Sara López-Pintado, Columbia University, USA

12:05pm **Floor Discussion**

2H. Contributed Session (3): *Nonparametric and Semi-parametric Methods with Applications*, Academic Exchange Center 302

Chair: Xingwei Tong, Beijing Normal University, China

10:35am *Nonparametric Regression of Covariance Structures in Longitudinal Studies*
Huajun Ye, BNU-HKBU United International Collge, Hong Kong

10:55am *Minimum Nonparametric Likelihood Ratio Estimates*
Junjian Zhang, Guangxi Normal University, China

11:15am *Nonparametric Inference Procedure for Random Effects Meta Analysis*
Rui Wang, Massachusetts General Hospital and Harvard School of Public Health, USA

11:35am *A Semi-parametric Estimation of Mean Function with Non-ignorable Missing Data*
Cindy L. Yu, Iowa State University, USA

10:55am *Estimating Spatial Variation in Disease Risk from Locations Coarsened by Incomplete Geocoding*
Xiangming Fang, East Carolina University, USA

12:15pm **Floor Discussion**

2I. Contributed Session (4): *Statistical Methods and Applications in Clinical Trials and Genetic Studies*, Academic Exchange Center 307

Chair: Xikui Wang, University of Manitoba, Canada

10:35am *Short-term Relapse as Fully Surrogate Endpoint for Long-term Sustained Progression of Disability in RRMS Patients Treated with Natalizumab*
Yong-Cheng Wang, Biogen Idec, USA

10:55am *An Improved Bland-Altman Method for Concordance Assessment*
Jason J.Z. Liao, Merck Research Laboratories, USA

11:15am *Simple Algorithm to Calculate Asymptotic Null Distribution of MAX3 in Case-control Genetic Association Studies*
Zang Yong, University of Hong Kong, Hong Kong

11:35am *Improved DNA Resequencing Analysis in Disease-Gene Studies*
Wenyi Wang, The University of Texas M. D. Anderson Cancer Center, USA

11:55am *Statistical Design and Analysis of Response Adaptive Clinical Trials*
Xikui Wang, University of Manitoba, Canada

12:15pm **Floor Discussion**

Lunch (12:20am-1:30pm)

Parallel Sessions 3 (1:30pm-3:20pm)

**3A. Invited Session (51): *Invited Panel for New Researchers (1:30pm-3:20pm)*,
Academic Exchange Center Room A**

Organizer and Chair: Bin Yu, University of California at Berkley, USA

Panel Members:

Peter Guttorp, Department of Statistics, University of Washington and Norwegian Computing Center, USA

Chao Anges Hsiung, Institute of Population Health Sciences, National Health Research Institutes, Taiwan

Hans R. Künsch, ETH Zurich, Department of Mathematics, Seminar für Statistik, Switzerland

Xuming He, Department of Statistics, University of Illinois, USA

Jun Liu, Department of Statistics, Harvard University, USA

Zhi-Ming Ma, Chinese Academy of Sciences, Beijing, China

Shige Peng, School of Mathematics, Qilu Institute of Finance, Shandong University, China

Qihua Wang, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China

Mike West, Department of Statistical Science, Duke University, USA

**3B. Invited Session (42): *Recent Developments on False Discovery Rates,*
Academic Exchange Center Room B**

Organizer: Yoav Benjamini, Tel Aviv University, Israel

Chair: Harrison Zhou, Yale University, USA

1:35pm *Simultaneous Control of FDR and Expected Number of False Rejections*

Helmut Finner, Deutsches Diabetes-Zentrum an der Heinrich-Heine-Universität
Düsseldorf Leibniz-Zentrum für Diabetes-Forschung Institut für Biometrie und
Epidemiologie, Demark

2:05pm *False Discovery Rate-Adjusted Charting Schemes for Multistage Process
Monitoring and Fault Identification*

Yanting Li, Shanghai Jiao Tong University, China

2:35pm *Hierarchical Testing of Subsets of Hypotheses*

Yoav Benjamini, Tel Aviv University, Israel

3:05pm **Floor Discussion**

**3C. Invited Session (18): *Statistical Methods for Complex Data,*
Teaching Building 202**

Organizer and Chair: Regina Liu, Rutgers University, USA

1:35pm *Multi-Resolution Bayesian Inference of Stochastic Models from
Partially Observed Data*

Samuel Kou, Harvard University, USA

2:00pm *A Stem Weight Maximization Scheme for RNA Pseudoknot Prediction Algorithm*

Yong Kheng Goh, Universiti Tunku Abdul Rahman, Malaysia

2:25pm *Similarity of Distributions through Trimming and Distance*

Juan A. Cuesta-Albertos, Universidad de Cantabria, Spain

2:50pm *Statistical Quality Techniques applied to Service Industry*

Fugee Tsung, Hong Kong University of Science and Technology, Hong Kong

3:15pm **Floor Discussion**

3D. Invited Session (33): *Multi-Regional Clinical Trials: Statistical/Operational Perspectives/Case Studies*, Teaching Building 203

Organizers: Yoko Tanaka, Eli Lilly, USA, Bruce Binkowitz, Merck, USA, and
Brent Burger, Cytel, Inc., USA

Chair: Brent Burger, Cytel, Inc., USA

1:35pm ***A Bridge Too Far? Challenges and Opportunities in Linking China into Simultaneous Global Development (SGD) via Multi-Regional Clinical Trials (MRCTs)***
Frank Shen, Roche Global Products Development, China

2:00pm ***Decoding the Regional Differences in Multi-Regional Clinical Development***
William Wang, Merck & Co. Inc., China

2:25pm ***Clinical Trials in India - The Evolving Scenario***
Jayanti Gupta, Semler Research Centre Pvt Ltd, India

2:50pm ***Considerations for Multi-Regional Clinical Trial Designs, Analyses and Inference***
Peng-Liang Zhao, Sanofi-Aventis, USA

3:15pm **Floor Discussion**

3E. Invited Session (59): *Recent Statistical Applications*, Teaching Building 204

Organizer: Hubert Janpeing Chen, National Cheng-Kung University, Taiwan and
University of Georgia, USA

Chair: Xiangrong Yin, University of Georgia, USA

1:35pm ***Prediction of Failure Rate of Taiwanese Companies by Logistic Model***
Hubert Janpeing Chen, National Cheng-Kung University, Taiwan and
University of Georgia, USA

2:00pm ***Using Information on Both Short-Term Response and Long-Term Survival in the Design of Oncology Clinical Trials***
Xuelin Huang, The University of Texas M. D. Anderson Cancer Center, USA

2:25pm ***Application of the Analysis of Means with Unequal Variances***
Miin-Jye Wen National Cheng Kung University, Taiwan

2:50pm ***Mixture Clustering and its Applications in Bioinformatics***
Shu-Chuan Chen, Arizona State University, USA

3:15pm **Floor Discussion**

**3F. Invited Session (53): *Model Selection with Correlated Data,*
Teaching Building 205**

Organizer: Philip E. Cheng, Institute of Statistical Science, Academia Sinica, Taiwan

Chair: Zhigen Zhao, Temple University, USA

1:35pm *The Secret of Current Rising Process of Crude Death Rate in China ----
Based on the Factor Decomposition of Gender Differences*
Li Zhe, People's University of China, China

2:05pm *An Information Approach to Evaluating Log-linear and Logistic Models*
Jianhui Ning, Huazhong Normal University, China

2:35pm *Another Look at Log-linear Modeling using Data Information*
Philip E. Cheng, Institute of Statistical Science, Academia Sinica, Taiwan

3:05pm **Floor Discussion**

**3G. Contributed Session (5): *Recent Developments in Generalized Linear
Models,* Teaching Building 207**

Chair: Liuquan Sun, Chinese Academy of Sciences, China

1:35pm *General Sparse Boosting*
Junlog Zhao, Beihang University, China

2:00pm *Generalized Linear Models for Analyzing the Impact of Covariates on Possibly
Non-Gaussian Response Variables*
Magid Maatallah, University of London, UK

2:25pm *Log-linear Models in the Meta-analysis of Diagnostic Test Evaluations with Two
Reference Standards*
Jian Kang, University of Calgary, Canada

2:50pm *Estimation in the Improper Linear Regression Models with Complex-valued Data*
Sanguo Zhang, Graduate University of Chinese Academy of Sciences, China

3:15pm **Floor Discussion**

3H. Contributed Session (6): *Bayesian Estimation and Applications of Bayesian Approach in Non-parametric Inference*, Academic Exchange Center 302

Chair: Taps Maiti, Michigan State University, USA

1:35pm ***The Prior Maximum Likelihood Estimation***

Shu-Qing Li, The Second Artillery Engineering College, China

2:05pm ***Center-adjusted Inference for a Nonparametric Bayesian Random Effect Distribution***

Yisheng Li, University of Texas M. D. Anderson Cancer Center, USA

2:35pm ***Adaptive Bandwidth Selection for Multivariate Kernel Density Estimation via Bayesian Sampling***

Shuowen (Nick) Hu, Monash University, Australia

3:05pm **Floor Discussion**

Coffee/Tea Break (3:20am-3:40pm)

Parallel Sessions 4 (3:40am-5:30pm)

4A. Invited Session (49): *Invited Panel: The Future of Academia-Industry Collaboration (3:40pm-5:30pm)*

Academic Exchange Center Room A

Organizer and Chair: Wei Shen, Eli Lilly and Company, USA

Panel Members:

Xiao-Li Meng, Harvard University, USA

Ying Lu, Stanford University, USA

Frank Shen, Roche, China

Dennis Lin, Penn State University, USA

Bin Yu, University of California at Berkeley, USA

Jeremy Wu, Census Bureau, USA

Pengliang Zhao, Sanofi-Aventis, USA

4B. Invited Session (10): *Statistical Methods for Next-generation Sequencing Data Analysis*, Academic Exchange Center Room B

Organizer: Hongkai Ji, Johns Hopkins University, USA

Chair: Hui Jiang, Stanford University, USA

3:45pm *Statistical and Computational Methods for the Analysis of Pooled, Targeted, Second-Generation Re-sequencing Data*

Hector Corrada Bravo, Johns Hopkins University, USA

4:10pm *PICS, A Method for Profiling Genome-wide Transcription Factor-DNA Association and Nucleosome Positions*

Xuekui Zhang, University of British Columbia, Canada

4:35pm *Estimating Isoform-Specific Gene Expression Using Paired-End RNA-Seq*

Hui Jiang, Stanford University, USA

5:00pm *Observations on the Differential Expression of Genes from RNA-seq Data*

Xuegong Zhang, Tsinghua University, China

5:25pm **Floor Discussion**

4C. Invited Session (40): *Machine Learning and Optimization*, Teaching Building 202

Organizer: Alex d'Aspremont, Princeton University, USA

Chair: Marco Cuturi, Princeton University, USA

3:45pm *Semidefinite Relaxations of Stationarity Criteria for Stochastic Processes*

Marco Cuturi, Princeton University, USA

4:15pm *Forward Smoothing using Sequential Monte Carlo*

Arnaud Doucet, University of British Columbia, Canada

4:55pm *Isotonic Recursive Partitioning*

Ronny Luss, Tel Aviv University, Israel

5:15pm **Floor Discussion**

4D. Invited Session (24): *Recent Development in Phylogeny Studies* Teaching Building 203

Organizer: Paul Lewis, University of Connecticut, USA

Chair: Ming-Hui Chen, University of Connecticut, USA

3:45pm *Evaluations on Models Accommodating Among-Site Variations*

Lynn Kuo, University of Connecticut, USA

4:15pm *Marginal Likelihood Estimation Using Steppingstone Sampling and its Application to Partitioned Bayesian Phylogenetic Analyses*
Paul Lewis, University of Connecticut, USA

4:55pm *Massively Parallel Statistical Phylogenetics: No Approximations Necessary*
Marc A. Suchard, David Geffen School of Medicine at UCLA, USA

5:15pm **Floor Discussion**

4E. Invited Session (39): High Dimensional Data Analysis and Machine Learning, Teaching Building 204

Organizer: Ji Zhu, University of Michigan, USA

Chair: Junhui Wang, University of Illinois at Chicago, USA

3:45pm *Penalized Empirical Likelihood and Growing Dimensional General Estimating Equations*
Chenlei Leng, National University of Singapore, Singapore

4:10pm *Variable Selection in High Dimensional Varying Coefficient Models*
Annie Qu, University of Illinois at Urbana-Champaign, USA

4:35pm *Composite Likelihood Bayesian Information Criterion for Model Selection in High Dimensional Correlated Data*
Peter Xuekun Song, University of Michigan, USA

5:00pm *Structure Clustering for Time Series Data with Case Studies*
Xing Wang, Renmin University, China

5:25pm **Floor Discussion**

4F. Invited Session (34): New Developments in Statistical Modeling of Survival Data, Teaching Building 205

Organizer and Chair: Yanqing Sun, The University of North Carolina at Charlotte, USA

3:45pm *Competing Risks Regression for Stratified Data*
Bingqing Zhou, Yale University, USA

4:10pm *Stopping for Futility on Progression-free Survival in Clinical Trials*
Qiming Liao, GlaxoSmithKline Pharmaceutical, USA

4:35pm *Empirical Likelihood Intervals for the Difference of Two Quantile Functions with Right Censoring*
Yichuan Zhao, Georgia State University, USA

4:50pm *Quantile Regression for Competing Risks Data with Missing Cause of Failure*
Yanqing Sun, The University of North Carolina at Charlotte, USA

5:25pm **Floor Discussion**

**4G. Invited Session (19): *Significance Tests and Model Selection in Genome-wide Association Studies*,
Teaching Building 207**

Organizer: Hua Tang, Stanford University, USA

Chair: Mingyao Li, University of Pennsylvania, USA

3:45pm *P-value Calculations for Genome-wide Scan Statistics*
I-Ping Tu, Academic Sinica, Taiwan

4:15pm *Gene Set Analysis of GWAS Data Using a Regularized Approach*
Li Hsu, Fred Hutchinson Cancer Research Center, USA

4:55pm *Covariate Adjusted Association Tests and Power Calculations Based on the Generalized Kendall's Tau*
Heping Zhang, Yale University, USA

5:15pm **Floor Discussion**

4H. Contributed Session (7): *Statistical Models and Inference with Applications*, Academic Exchange Center 302

Chair: Hui Yao, University of Connecticut, USA

3:45pm *High-dimensional Classification using Hierarchical Bayesian Polychotomous Logistic Regression Models*
Longhai Li, University of Saskatchewan, Canada

4:10pm *An Extension of the Sequence Motif Model for Repeats Identification*
Xiaodan (Dan) Fan, Chinese University of Hong Kong, Hong Kong

4:35pm *Semiparametric Transformation Models for Joint Analysis of Multivariate Recurrent and Terminal Events*
Liang Zhu, St. Jude Children's Research Hospital, USA

5:00pm *Testing Predictors Contributions Based on Directional Regression with Application to Model Free Variable Selection*
Yu Zhou, East China Normal University, China

5:25pm **Floor Discussion**

**4I. Contributed Session (8): *Recent Developments in Finance and Economics*,
Academic Exchange Center 307**

Chair: Tan Choon Peng, Universiti Tunku Abdul Rahman, Malaysia

3:45pm *Estimation of Time-Varying Long Memory Parameter Using Wavelet Method*

Zhiping Lu, East China Normal University, China

4:10pm *Efficient Estimation of Multidimensional Cluster Data Partially Linear
Regression Models with Economic Applications*

Gemai Chen, University of Calgary, Canada

4:35pm *A Hybrid Approach to Combining CART and Logistic Regression for Stock Ranking*

Min Zhu, University of Sydney, Australia

5:00pm *On-line Universal Portfolios Using Additive Updates*

Tan Choon Peng, Universiti Tunku Abdul Rahman, Malaysia

5:25pm **Floor Discussion**

**ICSA General Meeting (5:35pm-6:30pm), Room: Art Auditorium
December 20, 2010**

Meeting Agenda

5:40pm *An Overview of ICSA*

Ming-Hui Chen, ICSA Executive Director, University of Connecticut, USA

5:50pm *ICSA President's Report*

Xuming He, 2010 ICSA President, University of Illinois, USA

6:05pm *Look Ahead of ICSA in 2011 and Beyond*

Naisyin Wang, 2011 ICSA President, University of Michigan, USA

6:15pm **Floor Discussion**

7:00pm-9:00pm: *Trip to Pearl River*

Tuesday, December 21, 2010

Location: Guangzhou University (Guihuagang Campus)

7:30am-8:20am: Conference Registration

Parallel Sessions 5 (8:20am-10:10am)

**5A. Invited Session (43): *Statistica Sinica Special Invited Session,*
Academic Exchange Center Room A**

Organizer: Peter Hall, Editor of *Statistica Sinica*, University of Melbourne, Austria

Chair: Jane-Ling Wang, University of California at Davis, USA

8:25am ***Bootstrap and Inference in Nonparametric Regression with Functional Data***
Frederic Ferraty, Toulouse, France

8:50am ***Functional Local Regression***
Hans Mueller, University of California at Davis, USA

9:15am ***Uniform Convergence Rates for Nonparametric Regression and Principal Component Analysis in Functional/Longitudinal Data***
Tailen Hsing, University of Michigan, USA

9:40am ***Functional Linear Model with Zero-value Coefficient Function at Sub-regions***
Naisyin Wang, University of Michigan, USA

10:05am **Floor Discussion**

5B. Invited Session (55): *Multiplicity, Functional Model, and Missing Data in Clinical Trials,* Academic Exchange Center Room B

Organizer: Hong-Bin Fang, University of Maryland at Baltimore, USA

Chair: Jianguo Sun, University of Missouri at Columbia, USA

8:25am ***Adaptive Designs for Clinical Trials with Multiple Endpoints***
Ming T. Tan, University of Maryland at Baltimore, USA

8:50am ***Shape-restricted Regressions with Ordered Heteroscedasticity and Their Applications in Bioassay***
Guo-Liang Tian, University of Hong Kong, Hong Kong

9:15am ***Goodness of Fit of Multinomial Regression Models to Ordinal Longitudinal Data***
Dianliang Deng, University of Regina, Canada

9:40am *Analysis for Temporal Gene Expressions under Multiple Biological Conditions*
Hong-Bin Fang, University of Maryland at Baltimore, USA

10:05am **Floor Discussion**

**5C. Invited Session (29): *Bayesian Methods with Applications,*
Teaching Building 202**

Organizer: David Draper, University of California at Santa Cruz, USA

Chair: Marina Vannucci, Rice University, USA

8:25am *Bayesian Model and Utility Specification: Recent Developments*
David Draper, University of California at Santa Cruz, USA

8:55am *Modeling Dependent Protein Expression*
Donatello Telesca, University of California at Los Angeles, USA

9:25am *A Dependent Polya Tree Model: Bayesian Nonparametric Survival Regression*
Peter Müller, MD Anderson Cancer Center, USA

9:55am **Floor Discussion**

5D. Invited Session (2): *Structured and Unstructured Learning for High-Dimensional Problems,* Teaching Building 203

Organizer: Xiaotong Shen, University of Minnesota, USA

Chair: Yongli Zhang, University of Oregon, USA

8:25am *Extracting Communities from Networks*
Ji Zhu, University of Michigan, USA

8:55am *Consistent Selection of the Number of Clusters via Clustering Stability*
Junhui Wang, University of Illinois at Chicago, USA

9:25am *Model Selection Procedure for High Dimensional Data*
Yongli Zhang, University of Oregon, USA

9:55am **Floor Discussion**

**5E. Invited Session (11): *Network-based Statistical Analysis and Bioinformatics*,
Teaching Building 204**

Organizer: Wei Pan, University of Minnesota, USA

Chair: Hongzhe Li, University of Pennsylvania, USA

8:25am *Algorithms and Applications for Integrative Network Analysis*
Xianghong Jasmine Zhou, USC, USA

8:55am *Analysis of Genetic Interaction from EMAP Data*
Minghua Deng, Peking University, China

9:25am *Penalized Regression Analysis of Gene Networks*
Wei Pan, University of Minnesota, USA

9:55am **Floor Discussion**

**5F. Invited Session (50): *Case Studies from Academia-Industry Collaboration*,
Teaching Building 205**

Organizer: Jun Xie, Purdue University, USA

Chair: Wanzhu Tu, Indiana University School of Medicine, USA

8:25am *Application of Bayesian Joint Modeling of Time-to-Event and Patient-Reported Outcomes in an Oncology Clinical Trial*
Wei Shen, Eli Lilly and Company, USA

8:50am *Analysis of Binary Composite Endpoints with Missing Data in Components*
Daowen Zhang, North Carolina State University, USA

9:15am *Training the Next Generation of Industry-ready Biostatisticians in China*
Henry Lynn, Fudan University, China

9:40am *Quantitative Challenges Facing the Alzheimer's Disease Clinical Studies*
Yan (Grace) Li, Pfizer Inc. Shanghai, China

10:05am **Floor Discussion**

**5G. Invited Session (62): *Theory and Applications of Design of Experiments*,
Teaching Building 207**

Organizer and Chair: William Li, University of Minnesota, USA

8:25am *A Theory on Constructing 2^{n-m} Designs with General Minimum Lower Order Confounding*
Runchu Zhang, Nankai University, China

8:55am *Some Results on Two-Level Regular Designs with General Minimum Lower Order Confounding*

Jianwei Hu, Huazhong Normal University, China

9:25am *A Class of Optimal Discrete Choice Designs for Quality Improvement*

William Li, University of Minnesota, USA

9:55am **Floor Discussion**

5H. Contributed Session (9): *Statistical Methods and Models in Finance and Marketing Research*, Academic Exchange Center 302

Chair: Yong Zhou, Chinese Academy of Sciences & Shanghai University of Finance and Economics, China

8:25am *A New Model for Long Memory in Volatility*

Muyi Li, University of Hong Kong, Hong Kong

8:45am *The Profitability of Filter Trading Rules Under a Markov Switching Price Model*

Ling (Elaine) Xin, University of Hong Kong, Hong Kong

9:05am *Predictive Power and Forward Simulation for the S&P500 Index Futures and SPDR Price Based on EC-EGARCH, RS-EGARCH and Hybrid Model*

Feng-Chen Lin, Hsing Kuo University of Management, Taiwan

9:25am *The Multifactor Term Structure of Interest Rates under Regime Shifts and Lévy Jumps*

Xiangdong Liu, College of Economics at the University of Jinan, China

9:45am *On Measurement of Market Risk in Electricity Whole Sale Market*

Nino Kordzakhia, Macquarie University, Australia

10:05am **Floor Discussion**

5I. Contributed Session (10): *Biostatistics and Applications*, Academic Exchange Center 307

Chair: Weihua Guan, University of Minnesota, USA

8:25am *A Simulation Assessment of the Logistic Regression with Factor Score (LRFS) Method in Differential Item Functioning (DIF) Detection for Dichotomized Variables*

Chengwu Yang, Pennsylvania State University, USA

8:50am *Subject Randomization in Large Neurological Emergency Treatment Trials*

Wenle Zhao, Medical university of South Carolina, USA

9:15am *Development and Application of a Longitudinal CA125 Algorithm (ROCA) For Early Detection of Ovarian Cancer*

Steven J. Skates, Harvard Medical School & Massachusetts General Hospital, USA

9:40am *Estimation of the Contribution of Rare Causal Variants to Complex Diseases*

Weihua Guan, University of Minnesota, USA

10:05am **Floor Discussion**

Coffee/Tea Break (10:10am-10:30am)

Parallel Sessions 6 (10:30am-12:20pm)

6A. Invited Session (4): *Biostatistics in China --- in Honor of Professor Jiqian Fang*, Academic Exchange Center Room A

Organizers: Guimin Gao, Virginia Commonwealth University, USA and
Hua Jin, South China Normal University, Guangzhou, China

Chair: Hua Jin, South China Normal University, Guangzhou, China

10:35am *Efficiency of Continuous Surrogate Marker in Clinical Trials*

Ying Lu, US Veterans Affairs Cooperative Study Program and Stanford University,
USA

10:55am: *Assessing Risk of Familial History of Chronic Diseases: Latent Variable Modeling Approach*

Xiaowu Sun, Carefusion Corp., Marlborough, MA, USA

11:15am *Non-linear Factor Analysis Model and its Application to Evaluating the Equivalence of Questionnaires*

Yuantao Hao, Sun Yat-Sen University, China

11:35am *Evaluation Methods of Medical Reform in China*

Chuanhua Yu, Wuhan University, China

11:55am *A Smoothed Sequential Bonferroni Procedure for Genome-wide Association Studies Incorporating information of Hardy-Weinberg Disequilibrium*

Guimin Gao, Virginia Commonwealth University, USA

12:15pm **Floor Discussion**

6B. LIDA Special Invited Session (31): *Recent Advances in Lifetime Data Analysis*, Academic Exchange Center Room B

Organizer: Mei-Ling Ting Lee, University of Maryland, USA

Chair: Jianguo Sun, University of Missouri, USA

10:35am *Analysis of Recurrent Episodes Data: the Length-Frequency Tradeoff*

Jason P. Fine, University of North Carolina, Chapel Hill, USA

11:00am *Testing Equality of Survival Functions Based on Clustered Right-censored Data at a Fixed Point in Time*

Yun-Chan Chi, National Cheng-Kung University, Tainan, Taiwan

11:25am *Advancing Statistical Methodology for Warranty Claims*

X. Joan Hu, Simon Fraser University, British Columbia, Canada

11:50am *Analysis of Spontaneous Abortion in Observational Studies*

Ronghui Xu, University of California, San Diego, USA

12:15pm **Floor Discussion**

6C. Invited Session (41): *New Developments in Mixed Effects Models*, Teaching Building 202

Organizer: Peter Xuekun Song, University of Michigan, USA

Chair: Gary G. L. Tian, University of Hong Kong, Hong Kong

10:35am *Fence Method for Nonparametric Mixed Model Selection*

Jiming Jiang, University of California at Davis, USA

11:00am *Semiparametric Transition Models with Unknown Link and Variance Functions*

Huazhen Lin, Southwestern University of Finance and Economics, China

11:25am *Longitudinal Measures with Event Time as a Covariate*

Bin Nan, University of Michigan, USA

11:50am *Semiparametric Transformation Models with Bayesian P-splines*

Xin-Yuan Song, Chinese University of Hong Kong, Hong Kong

12:15pm **Floor Discussion**

6D. Invited Session (16): *Applied Data Mining*, Teaching Building 203

Organizers: Tom (Siu-Tong) Au and Winnie Duan, AT&T Lab, Research, USA

Chair: Tom (Siu-Tong) Au, AT&T Lab, Research, USA

10:35am *Automatic Forecasting via Data Mining Large Time Series Database*

Shu Ngai Yeung and Tom Au, AT&T Lab, Research, USA

11:00am *Data Mining Techniques for Cell Image Analysis in Drug Discovery*

Donghui Zhang, Sanofi Aventis, USA

11:25am *DD-Classfier: Nonparametric Classification Procedures Based on DD-plot*

Jun Li, University of California, Riverside, USA

11:50am *Laplace Error Penalty-based Variable Selection and its Application in GWAS*

Shaoli Wang, Shanghai University of Finance and Economics, China

12:15pm **Floor Discussion**

6E. Invited Session (20): *Interactions and prediction in Genomewide*

***Association Studies*, Teaching Building 204**

Organizer: Charles Kooperberg, Fred Hutchinson Cancer Research Center, USA

Chair: Li Hsu, Fred Hutchinson Cancer Research Center, USA

10:35am *Sampling Strategies for Rare Variant Tests*

Sebastian Zoellner, University of Michigan, USA

11:00am *Maximal Conditional Chi-Square Importance in Random Forests*

Minghui Wang, University of Science and Technology of China, China

11:25am *Prediction Models in Genome-wide Association Studies*

Charles Kooperberg, Fred Hutchinson Cancer Research Center, USA

11:50am *Interaction Models for Longitudinal Studies with Large Scale Genetic Data*

Bhramar Mukherjee, University of Michigan, USA

12:15pm **Floor Discussion**

6F. Invited Session (8): *New developments in Time Series*, Teaching Building 205

Organizer: Rong Chen, Rutgers University, USA

Chair: Hansheng Wang, Guanghua School of Management, Peking University, China

10:35am *Estimation of Large Latent Factor Models for Time Series Data*

Clifford Lam, London School of Economics, UK

11:05am *Some Results on Time Series Models with Long Memory in the Variance*
Wai Keung Li, University of Hong Kong, Hong Kong

11:35am *On the Approximate Maximum Likelihood Estimation for Diffusion Processes*
Song Xi Chen, Peking University and Iowa State University, USA

12:05pm **Floor Discussion**

6G. Invited Session (54): *Statistical Method and Theory for High-dimensional Data*, Teaching Building 207

Organizer: Zhigen Zhao, Temple University, USA

Chair: Wenguang Sun, North Carolina State University, USA

10:35am *Regularized REML for Estimation and Selection of Fixed and Random Effects in Linear Mixed-Effects Models*
Sijian Wang, University of Wisconsin, Madison, USA

11:05am *A Constrained L1 Minimization Approach to Sparse Precision Matrix Estimation*
Xi Luo, University of Pennsylvania, USA

11:35am *Empirical Bayes Confidence Intervals for Selected Parameters for a Large Number of Normal Populations with Unequal but Estimable Means and Variances*
Zhigen Zhao, Temple University, USA

12:05pm **Floor Discussion**

6H. Contributed Session (11): *Recent Advances in Clinical Trials and Genetics*, Academic Exchange Center 302

Chair: Yue-Qing Hu, Fudan University, China

10:35am *Optimizing Pharmaceutical Industry Portfolios; How can Clinical Trial Statisticians Contribute?*
Zoran Antonijevic, Quintiles, Inc., USA

11:00am *Detection of Parent-of-Origin Effects for Quantitative Traits in Nuclear Families*
Ji-Yuan Zhou, Southern Medical University, Guangzhou, China

11:25am *Allelic Imbalance Analysis Using SNP Array Data*
Li Zhang, The University of Texas MD Anderson Cancer Center, USA

11:50am *A Conditional Likelihood Approach to Detecting Imprinting Effects*
Yue-Qing Hu, Fudan University, China

12:15pm **Floor Discussion**

**6I. Contributed Session (12): *Recent Advances in Design and Experiment*,
Academic Exchange Center 307**

Chair: Yingfu (Frank) Li, University of Houston - Clear Lake, USA

10:35am *Some Recent Advances on Quaternary-Code Designs*
Frederick K. H. Phoa, Institute of Statistical Science, Academia Sinica, Taiwan

10:55am *An Adaptive Design to Estimate the Desired Control Level Based on Discrete and Continuous Outputs*
Yubin Tian, Beijing Institute of Technology, China

11:15am *Some New Results on Foldover Method*
Zujun Ou, Central China Normal University, China

11:35am *A Note on DS-optimal Designs for First-Degree Regression Models*
Rong-Xian Yue, Shanghai Normal University, China

11:55am *Non-regular Fractional Factorial Designs and Their Application to Quality Engineering*
Yingfu (Frank) Li, University of Houston - Clear Lake, USA

12:15pm **Floor Discussion**

Lunch (12:20am-1:30pm)

1:30pm-5:30pm: *Trip to Bao-Mo Garden in Guangzhou City*

Wednesday, December 22, 2010

Location: Guangzhou University (Guihuagang Campus)

7:30am-8:20am: Conference Registration

Parallel Sessions 7 (8:20am-10:10am)

7A. Invited Session (21): *Proteomics*, Academic Exchange Center Room A

Organizer: Pei Wang, Fred Hutchinson Cancer Research Center, USA

Chair: Tim Randolph, Fred Hutchinson Cancer Research Center, USA

8:25am *Increased Power for the Analysis of Label-Free LCMS/MS Proteomic Data by Combining Spectral Counts and Peptide Peak Attributes*

Xihong Lin, Harvard University, USA

8:55am *Protein Identification and Quantification in Shotgun Proteomics: A Probabilistic Approach*

Haixu Tang, Indiana University, USA

9:25am *A Regularized Hotelling's T2 Test for Pathway Analysis in Proteomics Studies*

Pei Wang, Fred Hutchinson Cancer Research Center, USA

9:55am **Floor Discussion**

7B. Invited Session (6): *Statistical Methods in Medical Decision Making*, Academic Exchange Center Room B

Organizer: Ying Lu, US VA Cooperative Study Program and Stanford University, USA

Chair: Jiqian Fang, Sen-Yet Sen University, China

8:25am *Bayesian Adaptive Designs for Biomarker Guided Trials for Personalized Medicine*

J. Jack Lee, University of Texas M. D. Anderson Cancer Center, USA

8:50am *Cost-saving Tree for Survival Endpoints*

Hua Jin, South China Normal University, China

9:15am *Assessment of the Incremental Accuracy of Longitudinal Biomarkers in Predicting Survival Endpoint*

Caixia Li, Sen-Yet Sen University, China

9:40am *Discussant:* Jiqian Fang, Sen-Yet Sen University, China

10:05am **Floor Discussion**

7C. Invited Session (12): *Integrative Analysis of Various Types of Genomic Data, Teaching Building 202*

Organizer: Haiyan Huang, University of California at Berkeley, USA

Chair: Lynn Kuo, University of Connecticut, USA

8:25am *Empirical Bayes Analysis of Sequencing-based Transcriptional Profiling without Replicates*

Zhijin Wu, Brown University, USA

8:55am *The Regulatory Annotation by Integrating Various Genomic and Proteomic Data and Information*

Minping Qian, Peking University, China

9:25am *Using Phylogenetic Relationships to Infer Gene Functional Groups*

Jun Liu, Harvard University, USA

9:55am **Floor Discussion**

7D. Invited Session (25): *Bayesian Spatial Modeling with Applications in Wildlife and Conservation Research, Teaching Building 203*

Organizer: Chong (Zhuoqiong) He, University of Missouri, USA

Chair: Dongchu Sun, University of Missouri, USA

8:25am *Spatial Multinomial Models and Bayesian Inference for the Analysis of Land-cover and Land-use Data*

Zhu Jun, University of Wisconsin-Madison, USA

8:55am *Bayesian Spatial Models with Repeated Measurements*

Xiaoqian Sun, Clemson University, USA

9:25am *Modeling Species Co-occurrence Using Spatial Hierarchical Model*

Xun Jiang, University of Connecticut, USA

9:55am **Floor Discussion**

**7E. Invited Session (61): *New Developments in Design of Experiments,*
Teaching Building 204**

Organizer: Min-Qian Liu, Nankai University, China

Chair: Rong-Xian Yue, Shanghai Normal University, China

8:25am *An Algorithm for Constructing Second-Order Designs*
Nam-Ky Nguyen, Hanoi National University, Vietnam

8:50am *Optimal Blocking Schemes for Fractional Factorial Split-plot Designs*
Pi-Wen Tsai, National Taiwan Normal University, Taiwan

9:15am *Blocked Two-level Regular Factorial Designs with Minimum Aberration*
Shengli Zhao, Qufu Normal University, China

9:40am *Constructing Uniform Designs by Integer Programming Method*
Yongdao Zhou, Sichuan University, China

10:05am **Floor Discussion**

**7F. Invited Session (38): *Recent Results in Theoretical Machine Learning,*
Teaching Building 205**

Organizer: Florentina Bunea, Florida State University, USA

Chair: Yuguo Chen, University of Illinois at Urbana-Champaign, USA

8:25am *On the Optimal Convergence Rate of Orthogonal Greedy Algorithms in High-Dimensional Sparse Regression Models*
Ching-Kang Ing, Institute of Statistical Science, Academia Sinica, Taiwan

8:55am *Analysis of a Random Forests Model*
Gérard Biau, Université Pierre et Marie Curie, Paris, France

9:25am *Distinct Impacts of Model List Complexity on Model Identification and Regression Estimation*
Yuhong Yang, University of Minnesota, USA

9:55am **Floor Discussion**

**7G. Contributed Session (13): *Stochastic Processes and Time Series*,
Teaching Building 207**

Chair: Chih-Hsiang Ho, University of Nevada, Las Vegas, USA

8:25am *Test for Autocorrelation Change in Discretely Observed Ornstein-Uhlenbeck Processes Driven by Lévy Processes*
Shibin Zhang, Shanghai Maritime University, China

8:45am *From Email Exchange Records to Inference of a Time Series of Random Dot Product Graphs*
Nam H Lee, Johns Hopkins University, USA

9:05am *A Geometric Process Maintenance Model*
Yeh Lam, The University of Hong Kong, Hong Kong

9:25am *Ratio Transformation for Stationary Time Series with Special Application in Consumer Price Index in Qatar*
Adil Yousif, Qatar University, Qatar

9:45am *A Smoothing Technique for Point Process*
Chih-Hsiang Ho, University of Nevada, Las Vegas, USA

10:05am **Floor Discussion**

**7H. Contributed Session (14): *Statistical Methods and Applications*,
Academic Exchange Center 302**

Chair: Hai-ming Lin, Guangdong University of Business Studies, China

8:25am *A New Comparison Theorem of Multidimensional BSDEs*
Panyu Wu, Shandong University, China

8:45am *A New Quantitative Statistic Method for Comparing Communities*
Qin Chang, Shandong University, China

9:05am *Classify Ranking Data by Boosting*
Fang Qi, The University of Hong Kong, Hong Kong

9:25am *Spatiotemporal Kriging and Correlation Modeling of Wind Power Generation*
Ada Lau, University of Oxford, UK

9:45am *Factor Analysis Optimization Model and Its Application*
Hai-ming Lin, Guangdong University of Business Studies, China

10:05am **Floor Discussion**

Coffee/Tea Break (10:10am-10:30am)

Parallel Sessions 8 (10:30am-12:20pm)

8A. Invited Session (22): *Longitudinal/Functional Data Analysis and Clinical Trials*, Academic Exchange Center Room A

Organizer and Chair: Jaroslaw Harezlak, Indiana University School of Medicine, USA

10:35am *A Joint Bivariate Regression Spline Model for Longitudinally Measured Data*
Wanzhu Tu, Indiana University School of Medicine, USA

11:00am *The Role of Functional Data Analysis in Bayesian Model Selection*
Dave Campbell, Simon Fraser University, Canada

11:25am *Inverse Probability Weighted Kernel Estimators for Longitudinal Data with Dropout*
Lu Wang, University of Michigan, USA

11:50am *Functional Data Analytic Approaches to Modeling Mass Spectrometry Data*
Jaroslaw Harezlak, Indiana University, USA

12:15pm **Floor Discussion**

8B. Invited Session (36): *Design and Analysis of Computer Experiments*, Academic Exchange Center Room B

Organizer: Jeff Wu, Georgia Institute of Technology, USA

Chair: Xinwei Deng, University of Wisconsin-Madison, USA

10:35am *Analyzing Computer Experiments: What Matters, What Doesn't*
William J. Welch, University of British Columbia, Canada

11:05am *Regularized Kriging*
Chien-Yu Peng, Institute of Statistical Science, Academia Sinica, Taiwan

11:35am *Designs for Data Pooling*
C. Devon Lin, Queen's University, Canada

12:05pm **Floor Discussion**

8C. Invited Session (28): *Bayesian Theory and Method*, Teaching Building 202

Organizer and Chair: Dongchu Sun, University of Missouri, USA

10:35am *Ensemble Filtering for High Dimensional State Space Models*

Yuguo Chen, University of Illinois at Urbana-Champaign, USA

11:05am *Bayesian Analysis for the Multinomial Data under Noninformative Priors*

Chong (Zhuoqiong) He, University of Missouri, USA

11:35am *A New Threshold Regression Model for Survival Data with a Cure Fraction*

Ming-Hui Chen, University of Connecticut, USA

12:05pm **Floor Discussion**

**8D. Invited Session (57): *New Development in Semiparametric Models*,
Teaching Building 203**

Organizer and Chair: Liuquan Sun, Chinese Academy of Sciences, China

10:35am *Statistical Inference of Parent-twin Quartet Data*

Xueqin Wang, Sun Yat-Sen University, China

11:00am *Censored Quantile Regression after Transformation*

Xingwei Tong, Beijing Normal University, China

11:25am *Consistent Model Specification Test for a Partial Linear Model with
Missing Covariates at Random*

Zhihua Sun, Chinese Academy of Sciences, China

11:50am *Generalized Varying-coefficient Single-index Model*

Riquan Zhang, East China University, China

12:15pm **Floor Discussion**

**8E. Invited Session (9): *High Dimensional Learning and Estimation*,
Teaching Building 204**

Organizer and Chair: Tong Zhang, Rutgers University, USA

10:35am *Optimization Methods for Large-scale L1-regularized Linear Classification*

Chih-jen Lin, National Taiwan University, Taiwan

11:00am *Some Analysis of Learning with Reproducing Kernel Spaces*

Ding-Xuan Zhou, City University of Hong Kong, Hong Kong

11:25am *Adaptive Base Class Boost (ABC-Boost) for Multi-Class Classification*
Ping Li, Cornell University, USA

11:50am *Some Algorithms for Sparse Learning*
Tong Zhang, Rutgers University, USA

12:15pm **Floor Discussion**

8F. Invited Session (48): *Financial Engineering and Financial Statistics,*
Teaching Building 205

Organizer and Chair: Ning Cai, Hong Kong University of Science and Technology, Hong Kong

10:35am *On Integrated Volatility with the Presence of Jumps and Microstructure Noise*
Bing-Yi Jing, Hong Kong University of Science and Technology, Hong Kong

11:00am *Modeling Realized Covariance in a Localized Framework*
Ying Chen, National University of Singapore, Singapore

11:25am *Optimal Reinsurance under Law-invariant Convex Risk Measure*
Phillip Yam, The Hong Kong Polytechnic University, Hong Kong

11:50am *Gamma Leveraged BNS-OU Price Processes*
Lancelot F. James, Hong Kong University of Science and Technology, Hong Kong

12:15pm **Floor Discussion**

8G. Contributed Session (15): *Statistical Methods and Models for Analyzing*
***Longitudinal and Lifetime Data,* Teaching Building 207**

Chair: Depeng Jiang, University of Manitoba, Canada

10:35am *A Joint Model for Analyzing Longitudinal Binary and Event History Data:
A Simulation Study*
Ali Reza Fotouhi, University of the Fraser Valley, Canada

10:55am *Estimation of the Gap Time Distributions for Ordered Multivariate Failure Time
Data: A Sieve Likelihood Approach*
Chia-Ning Wang, University of Michigan, USA

11:15am *On Some lifetime Distributions with Decreasing, Increasing and Upside-down
Bathtub Failure Rate*
Wanbo Lu, Southwestern University of Finance and Economics, China

11:35am *Accounting for within Cluster Correlations in Rank Regression for the Accelerated Failure Time Model with Censored Data*
You-Gan Wang, University of Queensland, Australia

11:55am *Finite Mixture Models for Longitudinal Data with Non-Random Dropouts and Semi-continuous Outcomes*
Depeng Jiang, University of Manitoba, Canada

12:15pm **Floor Discussion**

8H. Contributed Session (16): *Recent Developments in Statistical Theory and Inference*, Academic Exchange Center 302

Chair: Weizhen Wang, Wright State University, USA

10:35am *Discrete Generalized Gamma Distribution: properties and Parameter Estimations*
Subrata Chakraborty, Dibrugarh University, India

10:55am *Properties of Generalized T Test and Some Extension*
Juan Shen, University of Illinois, USA

11:15am *Minimizing Variable Selection Criteria by Markov Chain Monte Carlo*
Yen-Shiu Chin, Academia Sinica, Taiwan

11:35am *Some Approaches to Estimate Tail Behavior of Spectral Density*
Wei-Ying Wu, Michigan State University, USA

11:55am *Optimal One-sided Confidence Intervals for Comparing Two Paired Proportions*
Weizhen Wang, Wright State University, USA

12:15pm **Floor Discussion**

Lunch (12:20am-1:30pm)

Parallel Sessions 9 (1:30pm-3:20pm)

**9A. ICOSA Journal: Statistics in Biosciences Special Invited Session (35),
Academic Exchange Center Room A**

Organizers: K.K. Gordon Lan, Johnson & Johnson, USA and Xihong Lin, Harvard School of Public Health, USA

Chair: K.K. Gordon Lan, Johnson & Johnson, USA

1:35pm *Hierarchical Models for Isoform Differential Expression Analysis from the RNA-seq Data*

Hongzhe Li, University of Pennsylvania, USA

2:05pm *Semiparametric Regression Analysis for Doubly-censored Clustered Data*

Jane-Ling Wang, University of California at Davis, USA

2:35pm *Design and Evaluation of Multi-regional Trials with Heterogeneous Treatment Effect across Regions*

Chinfu Hsiao, National Health Research Institutes, Taiwan

3:05pm **Floor Discussion**

**9B. Invited Session (14): Recent Developments in Dimension Reduction,
Academic Exchange Center Room B**

Organizer and Chair: Lixing Zhu, Hong Kong Baptist University, Hong Kong

1:35pm *Model Selection for Gaussian Mixture Models*

Heng Peng, Hong Kong Baptist University, Hong Kong

2:00pm *The Sparse Laplacian Shrinkage Estimator for High-Dimensional Regression*

Jian Huang, University of Iowa, USA

2:25pm *Freedom Reduced Shrinkage Regression*

Yingcun Xia, National University of Singapore, Singapore

2:50pm *Consistent Model Selection and Estimation in a General Single-index Model with Large p and Small n*

Lixing Zhu, Hong Kong Baptist University, Hong Kong

3:15pm **Floor Discussion**

9C. Invited Session (23): *Bayesian Methods with Applications in Environmental and Ecological Sciences*, Teaching Building 202

Organizer: Keying Ye, University of Texas at San Antonio, USA

Chair: Chong (Zhuoqiong) He, University of Missouri, USA

1:35pm *Normalized Power Prior Bayesian Analysis with Presence of Nuisance Parameters with Applications in Ecology*

Keying Ye, of Texas at San Antonio, USA

2:05pm *Non-Gaussian Hierarchical Generalized Linear Geostatistical Model Selection*

Dipak Dey, University of Connecticut, USA

2:35pm *Model Selection and Segmentation over Large Spatial Regions: Modeling Brook Trout Condition in Eastern United States*

Eric Smith, Virginia Tech, USA

3:05pm **Floor Discussion**

9D. Invited Session (13): *Advances in Genome-wide Association Studies: Methods Development and Applications*, Teaching Building 203

Organizer: Mingyao Li, University of Pennsylvania, USA

Chair: Hua Tang, Stanford University School of Medicine, USA

1:35pm *Enhancing the Power of eQTL Mapping: A Catalog of 6,000 cis eQTLs in Lymphocytes*

Liming Liang, Harvard University, USA

2:00pm *Adjustment for Local Ancestry in Genetic Association Analysis of Admixed Populations*

Mingyao Li, University of Pennsylvania, USA

2:25pm *Allele-Specific Expression to Detect the /Cis/-acting Regulatory SNPs*

Rui Xiao, University of Pennsylvania School of Medicine, USA

2:50pm *Efficient Design for Massively Parallel Sequencing Based Genome-wide Association Studies*

Yun Li, University of North Carolina at Chapel Hill, USA

3:15pm **Floor Discussion**

**9E. Invited Session (63): *Model Selection and Model Averaging*,
Teaching Building 204**

Organizer: Guohua Zou, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China

Chair: Hansheng Wang, Peking University, China

1:35pm *Testing the Diagonality of a Large Covariance Matrix in a Regression Setting*
Hansheng Wang, Peking University, China

2:00pm *Variable Selection Based on Projection for Generalized Linear Models with Correlated Predictors*
Shurong Zheng, Northeast Normal University, China

2:25pm *Model Averaging by Cross Validation*
Xinyu Zhang, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China

2:50pm *Variable Selection in Double Generalized Linear Models and Its Application*
Zhongzhan Zhang, Beijing University of Technology, China

3:05pm **Floor Discussion**

**9F. Invited Session (56): *Design and Analysis of Adaptive Clinical Trials*,
Teaching Building 205**

Organizers: Bin Cheng, University of Columbia, USA and
Xin Zhao, Merck Research Laboratories, USA

Chair: Bin Cheng, University of Columbia, USA

1:35pm *Bayesian Prediction for Interim Futility Analysis and Sample Size Reestimation*
Xin Zhao, Merck Research Laboratories, USA

2:00pm *A Note on Confidence Bounds after Step-down Tests*
Yi-Hsuan Tu, National Cheng Kung University, Taiwan

2:25pm *On Efficient Two-Stage Adaptive Designs for Clinical Trials with Sample Size Adjustment*
Qing Liu, J&J Pharmaceutical Research and Development, L.L.C., USA

2:50pm *Design of Multi-Stage Transitional Seamless Trial with Different Objectives and Endpoints*
Bin Cheng, University of Columbia, USA

3:15pm **Floor Discussion**

**9G. Contributed Session (17): *Recent Advances in Non-parametric Regressions,*
Teaching Building 207**

Chair: Baohua He, Beijing Normal University-Hong Kong Baptist University United
International College, China

1:35pm ***Quantile Regression under Local Model Misspecification***

Xiaogang Duan, Academy of Mathematics and Systems, Chinese Academy of
Science, China

2:00pm ***The Adaptive Lasso in a High-Dimensional Sparse LAD Model***

Xiaoli Gao, Oakland University, USA

2:25pm ***Efficient Estimation and Inference for Median Regression with Varying-coefficient
Models with Censoring***

Shangyu Xie, Academy of System Science, Chinese Academy of Sciences, China

2:50pm ***Smoothing Parameter Selection for a New Regression Estimator for Non-negative
Data***

Baohua He, Beijing Normal University-Hong Kong Baptist University United
International College, Zhuhai, China

3:15pm **Floor Discussion**

**9H. Contributed Session (18): *High-Dimensional Data and Discriminant
Analysis,* Academic Exchange Center 302**

Chair: Philip L.H. Yu, The University of Hong Kong, Hong Kong

1:35pm ***An L^2 -norm Based Test for the Behrens-Fisher Problem with Fewer
Observations than the Dimension***

Jin-Ting Zhang, National University of Singapore, Singapore

1:55pm ***A Classification Method Incorporating Interactions among Variables for
High-dimensional Data***

Haitian (Maggie) Wang, Hong Kong University of Science and Technology,
Hong Kong

2:15pm ***Fitting High-Dimensional Generalized Linear Models via Generalized
Orthogonal-Components Regression***

Yanzhu Lin, Purdue University, USA

2:35pm ***High Dimensional ODEs Coupled with Mixed-effects Modeling Techniques for
Dynamic Gene Regulatory Network Identification***

Tao Lu, University of Rochester, USA

2:55pm *Separable Two-Dimensional Linear Discriminant Analysis*
Philip L.H. Yu, The University of Hong Kong, Hong Kong

3:15pm **Floor Discussion**

Coffee/Tea Break (3:20am-3:40pm)

Parallel Sessions 10 (3:40am-5:30pm)

10A. ISBA Co-Sponsored Invited Session (30): *Recent Advances in Bayesian Modeling for High-Dimensional Data*, Academic Exchange Center Room A
Organizer and Chair: Fan Li, Duke University, USA

3:45pm *Bayesian Models for Variable Selection that Incorporate Biological Information*
Marina Vannucci, Rice University, USA

4:10pm *Nonparametric Hierarchical Bayesian Analysis of Binomial Data via Bernstein Polynomial Priors*
Tingting Zhang, University of Virginia, USA

4:35pm *Correlation and Bayesian Variable Selection*
Stefano Monni, Cornell University, USA

5:00pm *Bayesian Regularized Regression via Graph Laplacian*
Fan Li, Duke University, USA

5:25pm **Floor Discussion**

**10B. Invited Session (7): *Internet and Web Search*,
Academic Exchange Center Room B**
Organizer and Chair: Hang Li, MSRA (Microsoft Research Asia), USA

3:45pm *Learning to Recommend with Social Information*
Hao Ma, The Chinese University of Hong Kong, Hong Kong

4:15pm *Statistical Learning Theory for Ranking*
Tie-Yan Liu, Microsoft Research Asia, USA

4:45pm *User Behavior Analysis for Web Search: With and beyond the Wisdom of Crowds*
Min Zhang, Tsinghua University, China

5:15pm **Floor Discussion**

**10C. Invited Session (5): *Recent Trends in Missing Data Regression Analysis*,
Teaching Building 202**

Organizer and Chair: Qihua Wang, Chinese Academy of Sciences, China

3:45pm *Missing Covariates with High Dimensional Surrogates*
Yi-Hau Chen, Institute of Statistical Science, Academy Sinica, Taiwan

4:10pm *Diagnostic Measures for Empirical Likelihood of Estimating Equations with
Missing Data*
Nian-Sheng Tang, Yunnan University, China

4:35pm *Mean Response Estimation in Non-response Data through Sufficient Dimension
Reduction*
Xiaobo Ding, Academy of Mathematics and Systems Science, Chinese Academy of
Science, China

5:00pm *Empirical Likelihood for Semiparametric Regression Model with Missing
Response Data*
Liugen Xue, Beijing University of Technology, China

5:25pm **Floor Discussion**

10D. Invited Session (60): *Statistical Process Control*, Teaching Building 203

Organizer: Zhaojun Wang, Nankai University, China

Chair: Kwok-Leung Tsui, Georgia Institute of Technology, USA

3:45pm *Recent Research in System Informatics, Prognostics, and Health Management*
Kwok-Leung Tsui, Georgia Institute of Technology, USA

4:10pm *A Spatial Variable Selection Approach for Monitoring Product Surface in
Semiconductor Manufacturing*
Wei Jiang, Hong Kong University of Science and Technology, Hong Kong

4:35pm *A Variable-Selection-based Multivariate EWMA Chart for Process Monitoring and
Diagnosis*
Kaibo Wang, Tsinghua University, China

5:00pm *A Spatial-Rank Based Multivariate EWMA Control Chart*
Changliang Zou, Nankai University, China

5:25pm **Floor Discussion**

**10E. Contributed Session (19): *Semi-parametric Methods and Applications,*
Teaching Building 204**

Chair: Liqun Wang, University of Manitoba, Canada

3:45pm *Analysis of an Extended Batch Marking Experiment Using Estimating Equations*
Yan Wang, RMIT University, Australia

4:10pm *Joint Composite Estimating Functions in Spatio-Temporal Models*
Yun Bai, University of Michigan, USA

4:35pm *Empirical Likelihood Confidence Intervals in the Stress-Strength Model Based on Independent Samples*
Ayman Baklizi, Qatar University, Qatar

5:00pm *Instrumental Variable Estimation in Nonlinear Models with Covariate Measurement Error*
Liqun Wang, University of Manitoba, Canada

5:25pm **Floor Discussion**

**10F. Contributed Session (20): *Recent Advances in Partially Linear Regression Models,*
Teaching Building 205**

Chair: Wenqing He, University of Western Ontario, Canada

3:45pm *Robust Empirical Likelihood Inference of Generalized Partial Linear Models with Longitudinal Data*
Guoyou Qin, Fudan University, China

4:10pm *Quantile Estimations for Functional-coefficient Partially Linear Regression Models*
Zhan-Gong Zhou, Jiaying University, China

4:35pm *Partially Linear Modeling for Conditional Quantiles*
Chaojiang Wu, University of Cincinnati, USA

5:00pm *A Pairwise Likelihood Method for the Analysis of Clustered Binary Data*
Wenqing He, University of Western Ontario, Canada

5:25pm **Floor Discussion**