Conference Schedule

All workshop sessions meet in the Dean’s Meeting Center, 26th Floor, and College of Arts and Sciences Event Center, 2nd Floor, 25 Park Place, Atlanta, GA 30302.

Friday, May 4, 2018

2:00-5:30 pm  Registration: on the 14th Floor, 25 Park Place, Atlanta, GA 30302.

Saturday, May 5, 2018

8:00-8:35 am  Registration: Dean’s Meeting Center, 26th Floor, 25 Park Place.

8:35-8:45 am  Conference Welcome: Alexandra Smirnova, Associate Chair, Math. & Stat. Dept.

Georgia State University

Opening Remarks: Sara Rosen, Dean, College of Arts and Sciences

Georgia State University

8:45-9:45 am  Session 1 (Keynote Speech): Chair: Yichuan Zhao, Georgia State University

Dissecting Genetic Architecture of Complex Diseases Through Integrated Genomic Analysis

Hongyu Zhao, Yale University

9:45-10:00 am  Break: Refreshments
10:00-11:50 am   **Session 2:**  **Chair:**  Jing Zhang, Georgia State University

*Joint Estimation and Inference for Data Integration Problems based on Multiple Multi-layered Gaussian Graphical Models*

George Michailidis, University of Florida

*Interpretable treatment regimes using lists*

Eric Laber, North Carolina State University

*Construction of Large Scale Gene Regulatory Networks*

Min Zhang, Purdue University

11:50-1:30 pm   **Lunch Time**

1:30-3:15 pm   **Session 3:**  **Chair:**  Vladimir Bondarenko, Georgia State University

*Data-Driven Research vs. Hypothesis-Driven Research Paradigm in the Big Data Era: Lessons and Experience from a Genetic Big Data Project*

Hulin Wu, University of Texas Health Science Center at Houston

*Statistical Challenges of Big Brain Network Data*

Moo K. Chung, University of Wisconsin-Madison

*Scalable Bayesian Variable Selection for Structured High-dimensional Data*

Suprateek Kundu, Emory University
3:15-3:25 pm  **Break:**  Refreshments

3:25-5:10 pm  **Session 4:**  **Chair:**  Xiaoyi Min, Georgia State University

*The Role of Kernels in Data Analysis*

Marianthi Markatou, University at Buffalo

*Multiple testing with covariates*

Bodhisattva Sen, Columbia University

*General optimal benchmark for adaptive dose finding clinical trials*

Ken Cheung, Columbia University

5:10-5:20 pm  **Break:**  Refreshments

5:20-6:55 pm  **Poster Session:**  **Chair:**  Remus Osan, Georgia State University:

College of Arts and Sciences Event Center, 2nd Floor

7:00-9:30 pm  **Workshop Banquet:**  Hsu’s Gourmet:

192 Peachtree Center Ave NE, Atlanta, GA 30303.
All workshop sessions meet in the Dean’s Meeting Center, 26th Floor, 25 Park Place

Sunday, May 6, 2018

8:00-8:30 am  Registration: Dean’s Meeting Center, 26th Floor, 25 Park Place.

8:30-10:15 am  Session 5:  Chair:  Yichen Cheng, Georgia State University

  Biomarker Discovery in Heterogeneous Populations
  Elizabeth Slate, Florida State University

  Accuracy, Safety and Reliability of Novel Phase I Trial Designs
  Ying Yuan, University of Texas MD Anderson Cancer Center

  Some Results on High-dimensional Generalized Latent Factor Models
  Yunxiao Chen, Emory University

10:15-10:30 am  Break:  Refreshments

10:30-12:05 pm  Session 6:  Chair:  Ying Yuan, University of Texas MD Anderson Cancer Center

  Bulk Tissue Gene Expression Deconvolution Using Single Cell RNA-seq Data
  Mingyao Li, University of Pennsylvania

  Single-cell ATAC-seq signal extraction and enhancement
  Hongkai Ji, Johns Hopkins Bloomberg School of Public Health
A robust and efficient approach to causal inference based on sparse sufficient dimension reduction

Shujie Ma, University of California, Riverside

12:05-12:10pm  Award Ceremony  &  Final Remarks: Yichuan Zhao