

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

11:50-1:30pm **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

10:30-12:05pm **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