

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 30303.

Friday, May 10, 2019

2:00 pm -5:30 pm **Registration:** Room 1420 on the 14th Floor, 25 Park Place, Atlanta, GA 30303

1:30 pm-5:30 pm Short Course "Phase II Clinical Development of New Drugs"

Naitee Ting, Boehringer and Ingelheim Pharmaceuticals Inc.

Room 1441, 25 Park Place, Atlanta, GA 30303

Saturday, May 11, 2019

8:00-8:35 am **Registration and Refreshments:** Dean's Meeting Center, 26th Floor, 25 Park Place

8:35-8:45 am **Welcome and 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*

Big data, Google and disease detection: a statistical adventure

Samuel Kou, Harvard University

9:45-10:00 am **Break:** Refreshments

10:00-11:50 am

Session 2: Chair: *Jun Kong, Georgia State University*

Handling sampling and selection bias in phenome-wide association studies

Bhramar Mukherjee, University of Michigan

Integrative genome-wide association studies

Wei Pan, University of Minnesota

Functional analysis of covariance models using seemingly unrelated

kernels with applications to longitudinal genome-wide association studies

Yehua Li, University of California, Riverside

11:50-1:30 pm

Box Lunch & Poster Set Up

1:30-3:15 pm

Session 3: Chair: *Vladimir Bondarenko, Georgia State University*

A Bayesian nonparametric approach for causal inference with semi-competing risks

Mike Daniels, University of Florida

Empirical distribution function based tests in data science

Sunil Mathur, Texas A&M University, Corpus Christi

A semi-mechanistic dose-finding design in oncology using pharmacokinetic/pharmacodynamic modeling

Yisheng Li, MD Anderson Cancer Research Center

3:15-3:25 pm **Break:** Refreshments

3:25-5:10 pm **Session 4: Chair:** *Rajeshwari Sundaram, NIH*

*Spatially informed variable selection priors and applications to
large-scale data*

Marina Vannucci, Rice University

*Real world data, real world problems: Accounting for data
provenance in EHR-based analyses*

Rebecca Hubbard, University of Pennsylvania

Dynamic correlation analysis for high-throughput expression data

Tianwei Yu, Emory University

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

5:20-6:55 pm **Poster Session: Chair:** *Vladimir Bondarenko, Georgia State University*

College of Arts & Sciences Event Center, 2nd Floor, 25 Park Place

7:05-9:30 pm **Workshop Banquet:** **Hsu's Gourmet:**

192 Peachtree Center Ave NE, Atlanta, GA 30303

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Sunday, May 12, 2019

8:00-8:30 am **Registration and Refreshments:** Dean's Meeting Center, 26th Floor, 25 Park Place

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

Shape-motivated functional data analysis

Anuj Srivastava, Florida State University

Understanding the genetic architecture of schizophrenia: from single omics to convergent and functional approaches

Zhongming Zhao, The University of Texas Health Science Center, Houston

Identifying individual risk rare variants using protein structure guided local tests

Jung-Ying Tzeng, North Carolina State University

10:15-10:30 am **Break:** Refreshments

10:30-12:05 pm **Session 6: Chair:** *Houping Xiao, Georgia State University*

Novice teenage drivers: risky? crash prone? statistical challenges in understanding our teenage drivers

Rajeshwari Sundaram, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

Detecting rare and weak spikes in large covariance matrices

Tracy Ke, Harvard University

*High-dimensional robust thresholded regression with application
to scalar-on-image analysis*

Lingzhou Xue, Pennsylvania State University

12:05-12:10 pm

Award Ceremony & Final Remarks: Yichuan Zhao

12:10-12:45 pm

Box Lunch