

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 09, 2025

2:00 pm -5:30 pm **Registration:** Room 1417 on the 14th Floor, 25 Park Place, Atlanta, GA 30303

1:30 pm-5:30 pm **Short Course “Bayesian Statistics, Designs, Sample Size Estimation, and Decision Making for Clinical Trials”**

Yuan Ji, University of Chicago

Dean's Meeting Center, 26th Floor, 25 Park Place, Atlanta, GA 30303

Saturday, May 10, 2025

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:** Stephanie Gutzler, Associate Dean

College of Arts and Sciences

Georgia State University

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

Empowering Statistics in Biomedical Research –

A Personal Perspective

Heping Zhang, Yale University

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

10:00-11:50 am	<p>Session 2: Chair: <i>Ruiyan Luo, Georgia State University</i></p> <p><i>Distributional Off-Policy Evaluation in Reinforcement Learning</i></p> <p><i>Lan Wang, University of Miami</i></p> <p><i>Flexible Functional Time-Transformation Models for Survival Analysis with Wearable Data</i></p> <p><i>Sujit Ghosh, North Carolina State University</i></p> <p><i>Response variable selection in multivariate linear regression</i></p> <p><i>Kshitij Khare, University of Florida</i></p>
11:50-1:30 pm	Box Lunch & Poster Set Up
1:30-3:15 pm	<p>Session 3: Chair: <i>Vladimir Bondarenko, Georgia State University</i></p> <p><i>Bayesian regression with sparsity for skewed tensor-variate responses: Applications to periodontal disease</i></p> <p><i>Dipankar Bandyopadhyay, Virginia Commonwealth University</i></p> <p><i>Recent advances in statistical methods for high-dimensional mediation analysis</i></p> <p><i>Peng Wei, MD Anderson Cancer Center</i></p> <p><i>Unveiling Cell Type Specific Risk Genes for Alzheimer's Disease Dementia by Integrating Large-Scale snRNA-Seq Data from Prefrontal Cortex Tissue with GWAS Summary Data</i></p> <p><i>Jingjing Yang, Emory University</i></p>
3:15-3:25 pm	Break: Refreshments

3:25-5:10 pm **Session 4:** **Chair:** *Li-Hsiang Lin, Georgia State University*

A Uniform Concentration Inequality for Kernel-Based

Two-Sample Statistics

Xiaoming Huo, Georgia Institute of Technology

Imputation-Based Q-Learning for Optimizing Dynamic

Treatment Regimes with Competing Risk Outcomes

Yu Cheng, University of Pittsburgh

Functional Clustering for Longitudinal Associations Between

Social Determinants of Health and Stroke Mortality

Ye Shen, University of Georgia

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

7:10-9:30 pm **Workshop Banquet:** **Hsu's Gourmet:**

192 Peachtree Center Ave NE, Atlanta, GA 30303

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Sunday, May 11, 2025

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:** *Guanyu Hu, University of Texas Health Science Center*

Multivariate Categorical Response Regression and Classification

Henry Zhang, Florida State University

***Identifying unmeasured heterogeneity in microbiome data via
quantile thresholding (QuanT)***

Ni Zhao, Johns Hopkins University

Time-aware Analyses for Critical Care Electronic Health Records

Anru Zhang, Duke University

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

10:30-12:05 pm **Session 6: Chair:** *Kangni Alemjrodo, Georgia State University*

***scCOSMiX – A Mixed-Effects Framework for Differential
Coexpression and Transcriptional Interactions Modeling in
Single-Cell RNA-Seq***

Yen-Yi Ho, University of South Carolina

*Efficient designs and analysis of two-phase studies with
longitudinal binary data*

Ran Tao, Vanderbilt University

*Bayesian Nonparametric Clustering with Feature Selection for
Spatially Resolved Transcriptomics Data*

Guanyu Hu, University of Texas Health Science Center

12:05-12:10 pm

Award Ceremony & Final Remarks: Yichuan Zhao

12:10-12:45 pm

Box Lunch