

# Workshop Schedule

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## Monday (June 2)

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### Opening Remarks (08:50 - 09:00)

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### Session 1 - Network Model Assessment and Structure Inference (09:00 - 10:40)

Chair: Yang Feng

Qiwei Yao (London School of Economics and Political Science)

- Goodness-of-Fit and the Best Approximation: an Adversarial Approach

Ji Zhu (University of Michigan)

- Hyperbolic Network Latent Space Model with Learnable Curvature

Masaaki Imaizumi (University of Tokyo)

- Statistical Analysis On In-Context Learning

Wen Zhou (New York University)

- Multivariate Inference of Network Moments by Subsampling
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### Coffee Break (10:40 - 11:10)

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### Session 2 - Causal & Temporal Inference in Networks (11:10 - 12:25)

Chair: Ji Zhu

Jinchi Lv (University of Southern California)

- HNCL: High-Dimensional Network Causal Inference

Jiaming Xu (Duke University)

- A Proof of The Changepoint Detection Threshold Conjecture in Preferential Attachment Models

Yuting Wei (University of Pennsylvania)

- To intrinsic dimension and beyond: Efficient sampling in diffusion models
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### Lunch (12:30 - 14:00)

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### Session 3 - Generative, Diffusion & Attention Models (14:05 - 15:45)

Chair: Qingfeng Liu

Takeru Matsuda (University of Tokyo & RIKEN Center for Brain Science)

- Matrix estimation via singular value shrinkage

Lexing Xie (Australian National University)

- Online Attention: Processes, Graphs, and Optimization

Xiaotong Shen (University of Minnesota)

- Generative Score Inference for Multimodal Data

Jiashun Jin (Carnegie Mellon University)

- TBD
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## Coffee Break (15:45 - 16:15)

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## Session 4 - Poster Session (16:15 - 17:15)

Chair: Yang Feng

Guillaume Braun (RIKEN Center for Advanced Intelligence Project)

- VEC-SBM: Optimal Community Detection with Vectorial Edge Covariates

Takuya Koriyama (University of Chicago)

- Precise Asymptotics of Bagging Regularized M-estimators

Issey Sukeda (University of Tokyo)

- Torus graph modeling for EEG analysis

Ergan Shang (Carnegie Mellon University)

- Inference for Balance Theory in Time-Varying Signed Network

Tao Shen (National University of Singapore)

- Community Detection in Multilayer Networks with Complex Inhomogeneity

Fan Wang (University of Warwick)

- Change Point Analysis in Dynamic Multilayer Networks

Bingcheng Sui (University of Science and Technology of China )

- Counting Cycles with AI

## Tuesday (June 3)

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## Session 5 - High-Dimensional Statistics and Tensor Methods (09:00 - 10:40)

Chair: Jiashun Jin

Cun-Hui Zhang (Rutgers University)

- Simultaneous Decorrelation of Matrix Time Series

Lexin Li (University of California Berkeley)

- Inference for Directed Acyclic Graph using Deep Generative Learning

Jeff Yao (Chinese University of Hong Kong Shenzhen)

- Alignment and matching tests for high-dimensional tensor signals via tensor contraction

Yuqi Gu (Columbia University)

- Minimax-Optimal Dimension-Reduced Clustering for High-Dimensional Nonspherical Mixtures

## Coffee Break (10:40 - 11:10)

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## Session 6 - Privacy-Preserving & Dynamic Network Learning (11:10 - 12:25)

Chair: Xiaoyue Niu

Tony Cai (University of Pennsylvania)

- Transcending Data Boundaries: Transfer Knowledge in Statistical Learning

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Yi Yu (University of Warwick)

- Optimal federated learning under differential privacy constraints

Wanjie Wang (National University of Singapore)

- Data Integration: Network-Guided Covariate Selection
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Group Photo (12:25 - 12:30)

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Lunch (12:30 - 14:00)

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Session 7 - Data Integration & Applications (14:05 - 15:45)

Chair: Emma Jingfei Zhang

Annie Qu (University of California Irvine)

- High-order Joint Embedding for Multi-Level Link Prediction

Peter Song (University of Michigan)

- Network Structural Equation Models for Causal Mediation and Spillover Effects

Tracy Ke (Harvard University)

- Poisson-Process Topic Model for Integrating Knowledge from Pre-trained Language Models

Hui Shen (McGill University)

- Consistent Identification of Top-K Nodes in Noisy Networks
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Coffee Break (15:45 - 16:15)

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Session 8 - Spectral / Hypergraph & Signal-Detection Methods (16:15 - 17:30)

Chair: Rachel Wang

Emma Jingfei Zhang (Emory University)

- Modeling Non-Uniform Hypergraphs Using Determinantal Point Processes

Zhigang Bao (Hong Kong University of Science and Technology)

- Signal Detection from Spiked Noise via Asymmetrization

Aaron Bramson (GA technologies)

- Measuring Housing Demand Using Multimodal Geospatial Networks
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Wednesday (June 4)

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Session 9 - Complex Networks and Multilayer Networks (09:00 - 10:40)

Chair: Kaizheng Wang

Xinyu Zhang (Chinese Academy of Sciences)

- A Transfer Learning Framework for Multilayer Networks via Model Averaging

Rachel Wang (University of Sydney)

- Network autoregression for the propagation of binary responses in social networks

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Ji Oon Lee (Korea Advanced Institute of Science & Technology)

- Detection problems in spiked Wigner matrices

Guangming Pan (Nanyang Technological University)

- Eigenvector overlaps in large sample covariance matrices and nonlinear shrinkage estimators
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## Coffee Break (10:40 - 11:10)

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## Session 10 - Advances in Statistical Learning and Uncertainty Quantification (11:10 - 12:25)

Chair: Qiyang Han

Xinghua Zheng (Hong Kong University of Science and Technology)

- Stock Co-jump Network Models based on Site Percolation

Robert Lunde (Washington University at St Louis)

- Conformal Prediction for Dyadic Regression Under Structured Missingness

Kaizheng Wang (Columbia University)

- Uncertainty Quantification for LLM-Based Survey Simulations
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## Lunch (12:30 - 14:00)

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## Session 11 - Graphical Models, Hypergraphs, and Generative Approaches (14:05 - 15:20)

Chair: Xinyu Zhang

Nick Whiteley (University of Edinburgh)

- Statistical exploration of the Manifold Hypothesis

Jingming Wang (University of Virginia)

- Network Goodness-of-Fit for the block-model family

Yao Xie (Georgia Institute of Technology)

- Scalable flow-based generative models for network data
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## Coffee Break (15:20 - 15:50)

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## Session 12 - Random Matrix Theory and Differential Privacy (15:50 - 16:40)

Chair: Wanjie Wang

Qiyang Han (Rutgers University)

- Algorithmic inference via gradient descent: from linear regression to neural networks

Yumou Qiu (Peking University)

- Versatile differentially private learning for general loss functions
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## Closing Remarks and Poster Awards (16:40 - 17:00)