

Frontiers of Statistical Network Analysis: Inference, Tensors and Beyond

Higher-order Networks and Tensors and Interface with other research areas
(12 May 2025–30 May 2025)



ORGANIZING COMMITTEE

Jialiang Li
National University of Singapore

Dong Xia
*Hong Kong University of Science and
Technology*

Yuan Zhang
Ohio State University

Scan QR code to register

Applied Geometry for Data
Sciences Part II



Venue

IMS Executive Seminar Room
Block S17, Level 3
10 Lower Kent Ridge Rd Singapore 119076

For more information:

<https://ims.nus.edu.sg/events/frontiers-of-statistical-network-analysis-inference-tensors-and-beyond>


Higher-order Networks and Tensors and Interface with other research areas (12 May 2025–30 May 2025)

Monday, 26 May 2025

Time	Title	Speaker
0915–0930	Registration	
0930–1030	Online Statistical Inference for Low-Rank Reinforcement Learning	Will Wei Sun <i>Purdue University, USA</i>
1030–1045	Coffee Break	
1045–1145	From Score Estimation to Sampling	Harrison Zhou <i>Yale University, USA</i>
1145–1400	Lunch Break	
1400–1500	Limit Laws for Gromov-Wasserstein Alignment with Applications to Testing Graph Isomorphisms	Kengo Kato <i>Cornell University, USA</i>
1500–1515	Coffee Break	
1515–1615	Theoretical Guarantees for Alternative Least Square Algorithm in Tensor CP Decomposition	Anru Zhang <i>Duke University, USA</i>

Tuesday, 27 May 2025

Time	Title	Speaker
0915–0930	Registration	
0930–1030	HNCI: high-dimensional Network Causal Inference	Yingying Fan <i>University of Southern California, USA</i>
1030–1045	Group Photo & Coffee Break	
1045–1145	A Regression Tree Approach to Missing Data and Explainable AI	Wei-Yin Loh <i>University of Wisconsin-Madison, USA</i>
1145–1400	Lunch Break	
1400–1500	Higher-Order Graphon Theory: Fluctuations, Inference, and Degeneracies	Bhaswar B. Bhattacharya <i>University of Pennsylvania, USA</i>
1500–1515	Coffee Break	
1515–1615	Context-dependent and Model-agnostic Network Estimation	Garvesh Raskutti <i>University of Wisconsin-Madison, USA</i>

Wednesday, 28 May 2025		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Representation Retrieval Learning for Heterogeneous Data Integration	Annie Qu <i>University of California, Irvine, USA</i>
1030–1045	Coffee Break	
1045–1145	Semiparametric Modelling and Analysis for Longitudinal Network Data	Yang Feng <i>New York University, USA</i>
1145–1400	Lunch Break	
1530	<u>Social Activity</u> Group tour to Marina Bay https://www.visitsingapore.com/neighbourhood/featured-neighbourhood/marina-bay/ 1-way transfer from Citadines Science Park to Gardens by the Bay Drop-off	

Thursday, 29 May 2025		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Tensor Data Analysis and Some Applications in Neuroscience	Lexin Li <i>University of California, Berkeley, USA</i>
1030–1045	Coffee Break	
1045–1145	Nonparametric Inference on Network Effects with Dependent Edges: Optimality, Two-sample, Multiple Strata	Wen Zhou <i>New York University, USA</i>
1145–1400	Lunch Break	
1400–1500	Heteroskedastic Tensor Clustering	Yuxin Chen <i>University of Pennsylvania, USA</i>

Friday, 30 May 2025		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Agnostic Characterization of Interference in Randomized Experiments	David S. Choi <i>Carnegie Mellon University, USA</i>
1030–1045	Coffee Break	
1045–1145	A Transfer Learning Approach to Precision Matrix Estimation	Mladen Kolar <i>University of Southern California, USA</i>
1145–1400	Lunch Break	

Friday, 30 May 2025		
Time	Title	Speaker
1400–1500	Graph Matrices and Tensor Networks	Aaron Potechin <i>University of Chicago, USA</i>
1500–1515	Coffee Break	
1515–1615	Identification and Inference from Cross-sectional Data via Higher Order Cumulants	Niels Richard Hansen <i>University of Copenhagen, Denmark</i>

This schedule is accurate as of 26 May 2025 and is subjected to changes.