Frontiers of Statistical Network Analysis: Inference, Tensors and Beyond

Parametric and Nonparametric Network Inference

(19–23 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

Bock S17, Level 3

10 Lower Kent Ridge Rd Singapore 119076

Parametric and Nonparametric Network Inference
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Monday, 19 May 2025
Location: LT 34

Time	Title	Speaker
0900–0925	Registration	
0925–0930	Opening Remarks	
0930–1030	Network Inference via Edge-Jittering	Qiwei Yao *London School of Economics and Political Science, UK*
1030–1045	Coffee Break	
1045–1145	Hyperbolic Network Latent Space Model with Learnable Curvature	Ji Zhu *University of Michigan, USA*
1145–1400	Lunch Break	
1400–1500	Statistical Analysis of Reciprocity	Chenlei Leng *The University of Warwick, UK*
1500–1515	Coffee Break	
1515–1615	Higher-order Accurate Two-sample Network Inference and Network Hashing	Yuan Zhang *Ohio State University, USA*

Tuesday, 20 May 2025

Time	Title	Speaker
0915–0930	Registration	
0930–1030	ATE-GL: Asymptotic Theory of Eigenvectors for Latent Embeddings with Generalized Laplacian Matrices	Jinchi Lv *University of Southern California, USA*
1030–1045	Coffee Break	
1045–1145	Subsampling Based Inference for Large Networks	Yuguo Chen *University of Illinois at Urbana-Champaign, USA*
1145–1400	Lunch Break	
1400–1500	A Dynamic Network Autoregressive Model for Time-varying Network-link Data	Jingnan Zhang *University of Science and Technology of China, China*
1500–1515	Coffee Break	

Tuesday, 20 May 2025		
Time	**Title**	**Speaker**
1515–1615	Learning with Latent Group Sparsity via Diffusions on Networks	Subhroshekhar Ghosh *National University of Singapore, Singapore*

Wednesday, 21 May 2025		
Time	**Title**	**Speaker**
0915–0930	Registration	
0930–1030	Modelling Non-Uniform Hypergraphs Using Determinantal Point Processes	Emma Jingfei Zhang *Emory University, USA*
1030–1045	Coffee Break	
1045–1145	Autoregressive Networks with Dependent Edges	Jinyuan Chang *Southwestern University of Finance and Economics, China*
1145–1400	Lunch Break	
1400–1500	*Social Activity* Group tour to Marina Bay *https://www.visitsingapore.com/neighbourhood/featured-neighbourhood/marina-bay/* *1-way transfer from IMS to Gardens by the Bay Drop-off*	

Thursday, 22 May 2025		
Time	**Title**	**Speaker**
0915–0930	Registration	
0930–1030	A Regression Framework for Studying Relationships among Attributes under Network Interference	Michael Schweinberger *The Pennsylvania State University, USA*
1030–1045	Coffee Break	
1045–1145	Learning Nonparametric Graphical Model on Heterogeneous Network-linked Data	Junhui Wang *Chinese University of Hong Kong, Hong Kong SAR*
1145–1400	Lunch Break	
1400–1500	Online Decision Making: Algorithm, Regret, Constraints and Uncertainty	Dong Xia *Hong Kong University of Science and Technology, Hong Kong SAR*

Friday, 23 May 2025		
Time	**Title**	**Speaker**
0915–0930	Registration	
0930–1030	Learning Latent Features from Network Data	Christophe Giraud *Université Paris-Saclay, France*

Friday, 23 May 2025		
Time	**Title**	**Speaker**
1030–1045	Coffee Break	
1045–1145	Application and Methods for Structured Tensor Learning	Miaoyan Wang *University of Wisconsin-Madison, USA*

This schedule is accurate as of 24 Apr 2025 and is subjected to changes.