

Modern Challenges in Data Decentralization: Federated Learning, Differential Privacy and Communication Constraints

Workshop Two on Data Privacy
(13–17 July 2026)



ORGANIZING COMMITTEE

Tony Cai
University of Pennsylvania

Yang Feng
New York University

Wanjie Wang
National University of Singapore

Yi Yu
University of Warwick



Venue

IMS Executive Seminar Room
Bock S17, Level 3

Thursday, 13 July 2026
S17-05-12

10 Lower Kent Ridge Rd Singapore 119076

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Monday, 13 July 2026

Time	Title	Speaker
0900–1000	The Blessing of Heterogeneity in Federated Reinforcement	Yuejie Chi <i>Yale University, USA</i>
1000–1030	<i>Coffee Break</i>	
1030–1130	Permutation Testing under Local Differential Privacy	Tom Berrett <i>University of Warwick, UK</i>
1130–1400	<i>Lunch Break</i>	
1400–1500	When Averaging Fails: Statistical Structure in Federated Learning	Qiong Zhang <i>Renmin University of China, China</i>
1500–1530	<i>Coffee Break</i>	
1530–1630	NetPTR: Optimal Differentially Private Spectral Community Detection	Wanjie Wang <i>National University of Singapore, Singapore</i>

Tuesday, 14 July 2026

Time	Title	Speaker
0900–1000	SMART Fine-tuning Factor Augmented Neural Lasso	Jianqing Fan <i>Princeton University, USA</i>
1000–1030	<i>Group Photo & Coffee Break</i>	
1030–1130	Federated Learning for Functional Mean Estimation: Optimality under Distributed Privacy Constraints	Tony Cai <i>University of Pennsylvania, USA</i>
1130–1400	<i>Lunch Break</i>	
1400–1500	Learning, Approximation and Control	Qianxiao Li <i>National University of Singapore, Singapore</i>
1500–1530	<i>Coffee Break</i>	
1530–1630	Optimal Estimation, Adaptation and Inference for Linear Functionals under Differential Privacy	Lasse Vuursteen <i>Duke University, USA</i>

Wednesday, 15 July 2026		
Time	Title	Speaker
0900–1000	Muon Outperforms Adam in Tail-End Associative Memory Learning	Shuche Wang <i>National University of Singapore, Singapore</i>
1000–1030	<i>Coffee Break</i>	
1030–1130	Anti-Concentration Inequalities for the Difference of Maxima of Gaussian Random Vectors	Shuting Shen <i>National University of Singapore, Singapore</i>
1130–1330	<i>Lunch Reception at IMS</i>	
1600–1800	<u>Group Outing: Singapore River Cruise Tour</u> 1-way transfer is provided departing from Park Avenue Rochester at 3.30 pm	

Thursday, 16 July 2026		
Time	Title	Speaker
0900–1000	Locally Private Estimation with Public Features	Yuheng Ma <i>East China Normal University, China</i>
1000–1030	<i>Coffee Break</i>	
1030–1130	Understanding Partial Transfer in CNNs via Kronecker Product Regression	Junhui Wang <i>Chinese University of Hong Kong, Hong Kong SAR</i>
1130–1400	<i>Lunch Break</i>	
1400–1500	Inference for General Linear Functionals in High-Dimensional Sparse Regression	Dongming Huang <i>National University of Singapore, Singapore</i>
1500–1530	<i>Coffee Break</i>	
1530–1630	Contextual Dynamic Pricing: Algorithms, Optimality, and Local Differential Privacy Constraints	Feiyu Jiang <i>Fudan University, China</i>

Friday, 17 July 2026			
Time	Title		Speaker
0900–1000	Statistical Inference for Decentralized Federated Learning		Jia Gu <i>Zhejiang University, China</i>
1000–1030	Coffee Break		
Short Talk			
1030–1130	Paul Rognon-Vael <i>Bocconi University, Italy</i>	Tao Shen <i>National University of Singapore, Singapore</i>	Mingyuan Xu <i>National University of Singapore, Singapore</i>