

Annual Summer School on Mathematical Aspects of Data Science

Research Talks

(29 Jun–01 Jul 2026)



ORGANIZING COMMITTEE

Daniel Bartl

National University of Singapore

Shahar Mendelson

Texas A&M University

Jonathan Scarlett

National University of Singapore

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University of California, Irvine



Venue

IMS Executive Seminar Room

Bock S17, Level 3

10 Lower Kent Ridge Rd Singapore 119076

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Monday, 29 June 2026		
Time	Title	Speaker
0840–0900	Registration	
0900–1020	All-Purpose Mean Estimation over the Reals	Jasper Lee <i>UC Davis, USA</i>
1020–1040	<i>Coffee Break</i>	
1040–1200	Random Matrices and Deep Neural Networks	Pierre Youssef <i>New York University, Abu Dhabi, UAE</i>
1200–1400	<i>Lunch Break</i>	
1400–1520	Is Adaptive Sampling for Learning Worth It? A Minimax View	Kevin Jamieson <i>University of Washington, USA</i>
1520–1540	<i>Coffee Break</i>	
1540–1700	Foundations of Reinforcement Learning and Control	Claire Vernade <i>University of Technology Nuremberg, Germany</i>

Tuesday, 30 June 2026		
Time	Title	Speaker
0845–0900	Registration	
0900–1020	Functional Estimation	Pengkun Yang <i>Tsinghua University, China</i>
1020–1040	<i>Coffee Break</i>	
1040–1200	New Matrix Perturbation Bounds via Relative Norm	Van Vu <i>University of Hongkong, HK</i>
1200–1400	<i>Lunch Break</i>	
1400–1520	Sampling	Sinho Chewi <i>Yale University, USA</i>
1520–1540	<i>Coffee Break</i>	
1540–1700	Diffusion Models	Holden Lee <i>Johns Hopkins University, USA</i>

Wednesday, 01 July 2026		
Time	Title	Speaker
0845–0900	Registration	
0900–1020	Beyond Standard Deep Learning: New Frontiers in Nonparametric Estimation, Domain Generalization, and Transformer Theory	Yuanyuan Lin <i>Chinese University of Hong Kong, Hong Kong SAR</i>
1020–1040	<i>Coffee Break</i>	
1040–1200	Spectral Sparsification: from Graphs to Convex Cones	James Saunderson <i>Monash University, Australia</i>
1200–1400	<i>Lunch Break</i>	
1400–1520	Weighted Sampling for Online Causal Discovery	Arnab Bhattacharrya <i>University of Warwick, UK</i>
1520–1540	<i>Coffee Break</i>	
1540–1630	Student Spotlights	

This schedule is accurate as of 08 Jun 2026 and is subjected to changes.