

Interacting Particle Systems and Their Applications

Week 2: Mean-field Games

(12–16 October 2026)



ORGANIZING COMMITTEE

Jose Antonio Carrillo
University of Oxford

Qin Li
University Wisconsin-Madison

Bar Light
National University of Singapore

Xin Tong
National University of Singapore



Venue

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

Interacting particle systems and Mean-field Games

(12–16 October 2026)

Monday, 12 October 2026

Time	Title	Speaker
0900–0930	Registration	
0930–1030	Interacting Particle Formulations for Stochastic Optimal Control	Sebastian Reich <i>University of Potsdam, Germany</i>
1030–1045	Coffee Break	
1045–1145	Learning Mean-Field Games through Mean-Field Actor-Critic Flow	Mo Zhou <i>UCLA, USA</i>
1145–1400	Lunch Break	
1400–1500	Monte Carlo Methods for Steering Generative Models	Bao Wang <i>University of Utah, USA</i>
1500–1515	Coffee Break	
1515–1615	Incomplete Market Equilibrium under Social Comparisons	Marko Hans Weber <i>NUS, Singapore</i>

Tuesday, 13 October 2026

Time	Title	Speaker
0915–0930	Registration	
0930–1030	Computing Stationary Equilibria in Measure-Dependent Markov Systems	Jing Dong <i>Columbia University, USA</i>
1030–1045	Group Photo & Coffee Break	
1045–1145	Learning to Rank under Strategic Corruption: A Non-atomic Approach	Yifan Feng <i>NUS, Singapore</i>
1145–1400	Lunch Break	
1400–1500	A New Framework for Mean-field Reinforcement Learning in the Physical World	Yuhua Zhu <i>UCLA, USA</i>
1500–1515	Coffee Break	
1515–1615	Equilibrium in Multi-Agent Reinforcement Learning	Bar Light <i>NUS, Singapore</i>
1745	<u>Conference Dinner (by invitation only)</u> Venue: Long Beach Robertson Quay (60 Robertson Quay, The Quayside) <i>1-way transfer is provided from Citadines Science Park.</i>	

Wednesday, 14 October 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Nonlocal Interaction Kernels Inference in Nonlinear Gradient Flow Equations	Jose Antonio Carrillo <i>University of Oxford, UK</i>
1030–1045	Coffee Break	
1045–1145	Learning Elliptic PDEs with Mean Field Langevin Dynamics	Yulong Lu <i>University of Minnesota, USA</i>
1145–1200	Coffee Break	
1200–1300	Propagation of Chaos for Mean-Field Langevin Dynamics	Atsushi Nitanda <i>NTU, Singapore</i>
Thursday, 15 October 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Continuous-time Mean Field Games: a Primal-dual Characterization	Jiacheng Zhang <i>CUHK, Hong Kong SAR</i>
1030–1045	Coffee Break	
1045–1145	Designing Interacting Particle Systems for Sampling	Aimee Maurais <i>MIT, USA</i>
1145–1400	Lunch Break	
1400–1500	A Total Variation Flow Scheme for Ergodic Mean Field Games	Domènec Ruiz-Balet <i>Universitat de Barcelona, Spain</i>
1500–1515	Coffee Break	
1515–1615	Learning-enhanced Structure Preserving Methods for Kinetic Plasma Models	Li Wang <i>University of Minnesota, USA</i>
Friday, 16 October 2026		
Time	Title	Speaker
Free Day to Explore and Enjoy Singapore! https://www.visitsingapore.com/ 		

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