

Tuesday, March 14th	
8:20 - 8:50	BREAKFAST (Wean Hall 6220)
MORNING SESSION	Doherty Hall Room 2302
8:50 - 9:00	<i>Welcoming remarks by Irene Fonseca (CNA Director)</i>
9:00 - 9:50	Nathan Kutz (University of Washington) Data-driven discovery of dynamical systems in engineering, physical and biological sciences
9:50 - 10:40	Christof Schütte (Freie Universität Berlin) Finding Reaction Coordinates in Molecular Dynamics
10:40 - 11:10	COFFEE BREAK
11:10 - 12:00	Andrew Stuart (Caltech) Uncertainty Quantification in the Classification of High Dimensional Data
12:00 - 12:25	Daniel Sanz-Alonso (Brown University) The role of dimension, order, and regularity in the learning of PDE inputs
12:25 - 2:00	LUNCH
AFTERNOON SESSION	Doherty Hall Room 2302
2:00 - 2:50	Mauro Maggioni (Johns Hopkins University) Geometric Methods for the Approximation of High-dimensional Dynamical Systems
2:50 - 3:40	Frédéric Chazal (INRIA Saclay) Subsampling Methods for Persistent Homology
3:40 - 4:10	COFFEE BREAK
4:10 - 5:00	Jianfeng Lu (Duke University) Path-integral molecular dynamics with surface hopping: High dimensional sampling with diffusion and jumps
EVENING ACTIVITIES	
6:30	DINNER AT PORCH (221 Schenley Drive)

Wednesday, March 15th	
8:20 - 9:00	BREAKFAST (Wean Hall 6220)
MORNING SESSION	Doherty Hall Room 2302
9:00 - 9:50	Rachel Ward (University of Texas, Austin) Extracting governing equations in chaotic systems from highly corrupted data
9:50 - 10:40	Gilad Lerman (UMN) A Well-Tempered Landscape for Non-convex Robust Subspace Recovery
10:40 - 11:10	COFFEE BREAK
11:10 - 12:00	Massimo Fornasier (Technical University of Munich) Learning and Sparse Control of Multiagent Systems
12:00 - 12:25	Giang Tran (University of Texas, Austin) Learning governing equations from multiple samples using sparsity
12:25 - 2:00	LUNCH
AFTERNOON SESSION	Doherty Hall Room 2302
2:00 - 2:50	Larry Wasserman (Carnegie Mellon University) Statistical Estimation of Manifolds and Ridges
2:50 - 3:15	Aaditya Ramdas (Berkeley) Universality of Mallows' and degeneracy of Kendall's kernels for rankings
3:15 - 3:45	COFFEE BREAK
3:45 - 4:35	Sebastien Motsch (Arizona State University) Tumor growth: from agent-based model to free boundary problem
4:35 - 5:00	Rujie Yin (Duke) Convolution Framelets: Coupling Local and Nonlocal Representations

Thursday, March 16th	
8:20 - 9:00	BREAKFAST (Wean Hall 6120)
MORNING SESSION	Doherty Hall Room 2302
9:00 - 9:50	Facundo Mémoli (Ohio State University) Persistent Homology of Asymmetric Networks
9:50 - 10:40	Jerome Darbon (Brown University) On convex finite-dimensional variational methods in imaging sciences, and Hamilton-Jacobi equations
10:40 - 11:10	COFFEE BREAK
11:10 - 12:00	Eric Vanden-Eijnden (Courant Institute, NYU) Markov State Models for data assimilation and interpretation
12:00 - 12:50	Antonin Chambolle (Ecole Polytechnique) A convex representation for curvature-dependent contour energies