

Wednesday, May 27th	
8:40 - 9:20	BREAKFAST (Wean Hall 6220)
MORNING SESSION	Chair: Dejan Slepčev
9:20 - 9:30	<i>Welcoming remarks by Irene Fonseca (CNA Director)</i>
9:30 - 10:20	Eitan Tadmor (Maryland - CSCAMM) <i>Taking tendency into account: a new paradigm for collective dynamics</i>
10:20 - 11:10	Alfred Bruckstein (Technion) <i>From Ants to A(ge)nts</i>
11:10 - 11:40	COFFEE BREAK
11:40 - 12:30	Mason Porter (Oxford) <i>Matchmaker, matchmaker, make me a match: migration of populations via marriages in the past</i>
12:30 - 2:30	LUNCH
AFTERNOON SESSION	Chair: Bob Pego
2:30 - 3:20	Cris Moore (Santa Fe) <i>Physics-inspired algorithms and phase transitions in static and dynamic community detection</i>
3:20 - 3:50	Nastassia Pouradier Duteil (Rutgers - Camden) <i>Optimal control of a collective migration model</i>
3:50 - 4:20	COFFEE BREAK
4:20 - 5:10	James von Brecht (Cal. State - Long Beach) <i>Co-dimension one motion and assembly</i>

Thursday, May 28th	
8:40 - 9:30	BREAKFAST (Wean Hall 6120)
MORNING SESSION	Chair: Eitan Tadmor
9:30 - 10:20	Amit Singer (Princeton) <i>Beyond scalar affinities for network analysis</i>
10:20 - 11:10	Andrea Bertozzi (UCLA) <i>Geometric graph-based methods for high dimensional data</i>
11:10 - 11:40	COFFEE BREAK
11:40 - 12:10	Nicolas Garcia Trillos (Carnegie Mellon) <i>Consistency of Cheeger and ratio graph cuts</i>
12:10 - 12:40	Wenjing Liao (Duke) <i>A multiscale adaptive learning algorithm for high-dimensional data</i>
12:40 - 2:30	LUNCH
AFTERNOON SESSION	Chair: Giovanni Leoni
2:30 - 3:20	Mikhail Belkin (Ohio State) <i>Learning a hidden basis through imperfect measurements: why and how</i>
3:20 - 3:50	Jianfeng Lu (Duke) <i>Crystal image analysis using synchrosqueezed transform and variational approach</i>
3:50 - 4:20	COFFEE BREAK
4:20 - 5:10	Florian Theil (Warwick) <i>Variational methods for geometric statistical inference problems</i>
EVENING ACTIVITIES	
7:00	DINNER AT PORCH (221 Schenley Drive)

Friday, May 29th	
8:40 - 9:30	BREAKFAST (Wean Hall 6120)
MORNING SESSION	Chair: Jianfeng Lu
9:30 - 10:20	Georgi Medvedev (Drexel) <i>Dynamical systems on dense graphs and graph limits</i>
10:20 - 11:10	Mauro Maggioni (Duke) <i>Geometric methods for the approximation of high-dimensional dynamical systems</i>
11:10 - 11:40	COFFEE BREAK
11:40 - 12:30	Jian-Guo Liu (Duke) <i>Particle, kinetic, and hydrodynamic models of swarming and network traffic models</i>