

Monday, October 21	Young Researchers Workshop: Ki-Net 2012-2019
9:00 – 9:25	BREAKFAST (hosted by CSCAMM)
MORNING SESSION	Chair: Eitan Tadmor (University of Maryland)
9:25 – 9:30	Eitan Tadmor (University of Maryland) <i>Welcoming Remarks</i>
9:30 – 10:10	Trevor Leslie , (University of Wisconsin-Madison) Regularity and long-time behavior for hydrodynamic flocking models
10:15 – 10:55	Siming He , (Duke University) Game of alignment: collective behavior of multi-species
11:00 – 11:30	COFFEE BREAK
11:30 – 12:10	Angelika Manhart , (University College London) Collective swimming through obstacles
12:15 – 2:00	LUNCH (hosted by CSCAMM)
AFTERNOON SESSION	Chair: Susanne Solem (Norwegian University of Science and Technology)
2:00 – 2:40	Di Fang , (University of California, Berkeley) Numerical study of the overdamped generalized Langevin equation with fractional noise
2:45 – 3:15	COFFEE BREAK
3:15 – 3:55	Franziska Weber , (Carnegie Mellon University) Numerical approximation of statistical solutions for systems of hyperbolic conservation laws
4:00 – 4:40	Amir Sagiv , (Columbia University) An optimal transport perspective on uncertainty quantification

Tuesday, October 22	Young Researchers Workshop: Ki-Net 2012-2019
9:00 – 9:30	<i>BREAKFAST</i> (hosted by CSCAMM)
MORNING SESSION	<i>Chair: Theodore Drivas</i> (Princeton University)
9:30 – 10:10	Yuhua Zhu , (Stanford University) A consensus-based global optimization method for high dimensional machine learning problems
10:15 – 10:55	Gianluca Favre , (University of Vienna) Hypo-coercivity in a kinetic model with thermal energy
11:00 – 11:30	<i>COFFEE BREAK</i>
11:30 – 12:10	Ming Zhong , (Johns Hopkins University) Data-driven discovery of emergent states in collective dynamics
12:15 – 2:00	<i>LUNCH</i>
AFTERNOON SESSION	<i>Chair: Franziska Weber</i> (Carnegie Mellon University)
2:00 – 2:40	Franca Hoffmann , (California Institute of Technology) Kalman-Wasserstein gradient flows
2:45 – 3:15	<i>COFFEE BREAK</i>
3:15 – 3:55	Xiaochuan Tian , (University of Texas at Austin) Analysis and computation of nonlocal models

Wednesday, October 23	Young Researchers Workshop: Ki-Net 2012-2019
9:00 – 9:30	<i>BREAKFAST</i> (hosted by CSCAMM)
MORNING SESSION	<i>Chair: Siming He</i> (Duke University)
9:30 – 10:10	Theodore Drivas , (Princeton University) Inviscid limit and 2d turbulence
10:15 – 10:55	Amaury Hayat , (Ecole des Ponts Paristech / Rutgers University) Stabilization of 1-D hyperbolic systems on a bounded domain
11:00 – 11:30	<i>COFFEE BREAK</i>
11:30 – 12:10	Ruiwen Shu , (University of Maryland) Anticipation breeds alignment
12:15 – 12:55	Pedro Aceves Sanchez , (North Carolina State University) Fractional diffusion limit of a linear kinetic transport equation in a bounded domain
AFTERNOON SESSION	<i>Free Afternoon</i>
EVENING ACTIVITIES	
7:00	<i>DINNER</i>

Thursday, October 24	Young Researchers Workshop: Ki-Net 2012-2019
9:00 – 9:30	<i>BREAKFAST</i> (hosted by CSCAMM)
MORNING SESSION	<i>Chair: Trevor Leslie</i> (University of Wisconsin-Madison)
9:30 – 10:10	Changhui Tan , (University of South Carolina) Eulerian dynamics in multi-dimensions with radial symmetry
10:15 – 10:55	Antoine Diez , (Imperial College London) Derivation and geometrical aspects of multiscale models of body-attitude coordination
11:00 – 11:30	<i>COFFEE BREAK</i>
11:30 – 12:10	Javier Morales , (University of Maryland) On the trend to global equilibrium for Kuramoto oscillators
12:15 – 2:00	<i>LUNCH</i> (hosted by CSCAMM)
AFTERNOON SESSION	<i>Chair: Javier Morales</i> (University of Maryland)
2:00 – 2:40	Zhenfu Wang , (University of Pennsylvania) Relative entropy method to the mean field limit problem
2:45 – 3:15	<i>COFFEE BREAK</i>
3:15 – 3:55	Susanne Solem , (Norwegian University of Science and Technology) A second-order numerical method for the aggregation equations

Friday, October 25	Young Researchers Workshop: Ki-Net 2012-2019
9:00 – 9:30	BREAKFAST (<i>hosted by CSCAMM</i>)
MORNING SESSION	Chair: Eitan Tadmor (University of Maryland)
9:30 – 10:10	Beatrice Signorello , (Vienna University of Technology) The propagator norm of a (non symmetric, degenerate) linear Fokker-Planck equation
10:15 – 10:55	Pedro Vilanova , (NJIT) Information-based variational model reduction of high-dimensional reaction networks
11:00 – 11:30	COFFEE BREAK
11:30 – 12:10	Michael Lindsey , (University of California, Berkeley) Toward sharp error analysis of extended Lagrangian molecular dynamics for polarizable force field simulation
12:15	CLOSING