2017 SOCAMS Schedule

8:30 – 9:00 **Rowland Hall** Check-in and Breakfast

RH101 Chair: Hongkai Zhao

9:00 - 9:45 **Natalia Komarova** (UC Irvine)
Near equilibrium calculus of stem cells

9:45 - 10:30 **Mark Huber** (Claremont McKenna College)
Monte Carlo methods for high dimensional integration

10:30 - 11:00 Coffee Break

	NS 1201 Chair: Long Chen	**NS 2201** Chair: Ali Nadim
11:00 - 11:20	**Xiyang Luo** (UCLA) Uncertainty Quantification in Graph Semi-supervised Learning	**Guher Camliyurt** (USC) A Lagrangian analyticity result for the Euler equations
11:20 - 11:40	**Xiaohan Wei** (USC) Structured signal recovery from non-linear and heavy-tailed measurements	**Paul Plucinsky** (Caltech) Microstructure induced suppression of wrinkling in thin nematic elastomer sheets
11:40 - 12:00	**Wuchen Li** (UCLA) Optimal transport on graphs with Fisher information regularization	**Chuntian Wang** (UCLA) A Partially Hyperbolic Model for Plasma Physics: Deterministic and Stochastic Zakharov-Kuznetsov Equation
12:00 - 12:20	**Ka Chun Lam** (Caltech) Energy Decomposition With Applications to Matrix Compression And Multiresolution Decomposition	**Ran Zhao** （Claremont Graduate University） Pointwise Hölder Exponent Estimation on Function of Multifractional Brownian Motion

12:20 - 2:00 **NS1201** Lunch Break

RH101 Chair: Jack Xin

2:00 - 2:45 **Andrej Zlatos** (UC San Diego)
Stochastic homogenization for reaction-diffusion equations

2:45 - 3:30 **Joseph Teran** (UC Los Angeles)
Snow Business: Scientific Computing in the Movies and Beyond

3:30 - 4:00 Coffee Break

	NS 1201 Chair: Long Chen	**NS 2201** Chair: Frederic Gibou
4:00 - 4:20	**Jiancheng Lyu** (UCI) Computing Residual Diffusivity by Adaptive Basis Learning via Spectral Method	**Fei Yu** (UCI) High Order Diffuse Domain Methods for Partial Differential Equations with Dirichlet Boundary Conditions in Complex Geometries
4:20 - 4:40	**Huiwen Wu** (UCI) A Randomized Multigrid Method for Solving Least Squares Problems	**Hailong Guo** (UCSB) Gradient Recovery For Elliptic Interface Problem
4:40 – 5:00	**Melike Sirlanci** (USC) Estimating Blood Alcohol Concentration / Breath Alcohol Concentration from Transdermal Alcohol Concentration Based on a Diffusion Equation with Random Coefficients	**Lihui Chai** (UCSB) Seismic tomography using Frozen Gaussian approximation
5:00 - 5:20	**Stas Minsker** (USC) Distributed Statistical Estimation and Rates of Convergence in Normal Approximation	**James Hateley** (UCSB) Frozen Gaussian Approximation for the Elastic Wave Equation in Isotropic Media