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

11:00 - 11:20  **Xiyang Luo** (UCLA)
Uncertainty Quantification in Graph Semi-supervised Learning

11:20 - 11:40  **Xiaohan Wei** (USC)
Structured signal recovery from non-linear and heavy-tailed measurements

11:40 - 12:00  **Wuchen Li** (UCLA)
Optimal transport on graphs with Fisher information regularization

12:00 - 12:20  **Ka Chun Lam** (Caltech)
Energy Decomposition With Applications to Matrix Compression And Multiresolution Decomposition

12:20 - 2:00  **NS1201** Lunch Break
<table>
<thead>
<tr>
<th>Room</th>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH101</td>
<td>2:00 - 2:45</td>
<td>Andrej Zlatos (UC San Diego)</td>
<td>Stochastic homogenization for reaction-diffusion equations</td>
</tr>
<tr>
<td></td>
<td>2:45 - 3:30</td>
<td>Joseph Teran (UC Los Angeles)</td>
<td>Snow Business: Scientific Computing in the Movies and Beyond</td>
</tr>
<tr>
<td></td>
<td>3:30 - 4:00</td>
<td></td>
<td>Coffee Break</td>
</tr>
<tr>
<td>NS 1201</td>
<td>4:00 - 4:20</td>
<td>Jiancheng Lyu (UCI)</td>
<td>Computing Residual Diffusivity by Adaptive Basis Learning via Spectral Method</td>
</tr>
<tr>
<td>NS 2201</td>
<td>4:00 - 4:20</td>
<td>Fei Yu (UCI)</td>
<td>High Order Diffuse Domain Methods for Partial Differential Equations with Dirichlet Boundary Conditions in Complex Geometries</td>
</tr>
<tr>
<td></td>
<td>4:20 - 4:40</td>
<td>Huiwen Wu (UCI)</td>
<td>A Randomized Multigrid Method for Solving Least Squares Problems</td>
</tr>
<tr>
<td></td>
<td>4:20 - 4:40</td>
<td>Hailong Guo (UCSB)</td>
<td>Gradient Recovery For Elliptic Interface Problem</td>
</tr>
<tr>
<td></td>
<td>4:40 - 5:00</td>
<td>Melike Sirlanci (USC)</td>
<td>Estimating Blood Alcohol Concentration / Breath Alcohol Concentration from Transdermal Alcohol Concentration Based on a Diffusion Equation with Random Coefficients</td>
</tr>
<tr>
<td></td>
<td>4:40 - 5:00</td>
<td>Lihui Chai (UCSB)</td>
<td>Seismic tomography using Frozen Gaussian approximation</td>
</tr>
<tr>
<td></td>
<td>5:00 - 5:20</td>
<td>Stas Minsker (USC)</td>
<td>Distributed Statistical Estimation and Rates of Convergence in Normal Approximation</td>
</tr>
<tr>
<td></td>
<td>5:00 - 5:20</td>
<td>James Hateley (UCSB)</td>
<td>Frozen Gaussian Approximation for the Elastic Wave Equation in Isotropic Media</td>
</tr>
</tbody>
</table>