



**MUMS Agent-Based Modeling and
Uncertainty Quantification Workshop**
March 11-12, 2019
SCHEDULE

Monday, March 11th

Room 330 Gross Hall, Duke University

8:30-9:00	Registration
9:00-9:15	Welcome
9:15-10:00	<i>Statistical Challenges in Agent-Based Modeling</i> David Banks , SAMSI
10:00-10:45	<i>Reduced-Scales and Alternative Representations for Large/Full-Scale ABMs</i> Rob Axtell , George Mason University/Santa Fe Institute
10:45-11:15	Break
11:15-12:00	<i>Practical Bayesian Optimization for Agent Based Transportation Simulators</i> Laura Schultz , George Mason University
12:00-1:30	Lunch on Your Own
1:30-2:15	<i>"Bayesian Model Calibration and Prediction Applied to (Stochastic) Epidemic Simulations"</i> Dave Higdon , Virginia Tech
2:15-3:00	<i>Plan for Lorentz Center</i> David Banks , Duke and SAMSI
3:00-3:30	Break
3:30-4:15	<i>Nonparametric Estimation of General Equilibrium Price Vectors</i> John Schuler , George Mason University
4:15-5:00	Informal Panel: Hongyuan Cao, Leah Johnson, Bruce Pitman, Ralph Smith

Tuesday, March 12th

Room 330 Gross Hall, Duke University

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| 9:00-9:45 | <i>First-Order Statistical Emulators</i>
Mevin Hooten , Colorado State University |
| 9:45-10:30 | <i>Replication or Exploration? Sequential Design for Stochastic Simulation Experiments</i>
Bobby Gramacy , Virginia Tech |
| 10:30-11:00 | Break |
| 11:00-11:45 | <i>Cost-Effectiveness of the U.S. Federal Restaurant Menu Calorie Labeling Law for Improving Diet and Health: A Microsimulation Modeling Study</i>
Junxiu Liu , Tufts University |
| 11:45-12:30 | Next Steps Discussion |
| 12:30 | Adjourn |