



Two-Day Undergraduate Workshop October 19-20, 2015 SCHEDULE

Monday, October 19, 2015

SAMSI, Room 150

8:15-8:30	Shuttle to SAMSI (meet in hotel lobby)
8:30-9:00	Registration (Zhengwu Zhang and Karem Jackson , SAMSI)
9:00-9:15	Sujit Ghosh , SAMSI/NCSU and Jamie Nunnely , SAMSI/NISS <i>Welcome and Introduction</i>
9:15-10:30	Ciprian Crainiceanu , Johns Hopkins University <i>A Tutorial for Clinical Brain Imaging</i>
10:30-11:45	Ana-Maria Staicu , NC State University <i>A Primer on Diffusion Tensor Imaging Study of Multiple Sclerosis</i>
11:45-12:30	Group Photo and Lunch at SAMSI
12:30-12:45	Shuttle to Dzirasa's Lab (Meet in Parking lot)
12:45-2:00	Stephan Mague , Center for Neuroimaging, Duke Univ. <i>Overview of the Research Lab and Tour of Facilities</i>
2:00-2:15	Shuttle back to SAMSI (meet in Lab's reception)
2:15-3:15	Benjamin Risk , SAMSI <i>A Tutorial on Image Reconstruction using Discrete Fourier Transformation (with R demos)</i>
3:15-3:30	Break
3:30-4:30	Sarah Vallelian , SAMSI <i>A Tutorial on Computed Tomography (with Matlab/Python demos)</i>
4:30-4:45	Break and Move to NISS Room 104
4:45-5:30	SAMSI Graduate Students and Postdoctoral Fellows Moderators: Adam Jaeger , Lucas Mentch and Zhengwu Zhang , SAMSI <i>Panel Discussion: Career in Mathematical Sciences</i>
5:30-6:45	Meet with SAMSI Members and Dinner at SAMSI
7:00+	Shuttle to the Hotel

Tuesday, October 20, 2015

[SAMSI](#), Room 150

8:15-8:30	Shuttle to SAMSI (Check out and meet in hotel lobby)
9:00-9:15	Recap: Sujit Ghosh , SAMSI, NCSU
9:15-10:30	Laura Miller , UNC-CH <i>Mathematical Models for Muscle Activation</i>
10:30-11:45	Ezra Miller , Duke University <i>Topology for Statistical Analysis of Brain Artery Images</i>
11:45-12:00p	Submit Evaluation Forms and Adjourn
12:00p+	Box Lunch and Shuttle to RDU Airport