CCNS Transition Workshop
May 4-6, 2016
SCHEDULE

Wednesday, May 4th
SAMSI Room 150

8:15	Shuttle
8:45– 9:00	Opening Remarks by SAMSI Associate Director: **Thomas Witelski**
	Neuromechanics
9:00 –9:30	**Laura Miller**, UNC and **Katie Newhall**, UNC *Modeling the Muscular Response to Motor Neuron Spike-Trains*
9:30-10:00	**Tirthabir Biswas**, Loyola *A New Template for Walking*
10:00-10:30	**Alexander Hoover**, Tulane *Neuromuscular Control of Jellyfish Turning*
10:30– 11:00	Break
	Big Data Integration, Part 1
11:00–11:30	**Hernando Ombao**, UC Irvine *The Future Outlook in EEG Analysis*
11:30-11:45	Discussion
11:45–1:15	Lunch
	Big Data Integration, Part 2
1:15-1:45	**Xi Luo**, Brown *Estimating Brain Pathway Effects Using Large-scale Multilevel Models*
1:45–2:15	**Qunqun Yu**, UNC *Joint and Individual Variation Explained (JIVE)Integration of HCP Data*
2:15-2:45	**Amanda Mejia**, Johns Hopkins *PCA Leverage: Outlier Detection for High-Dimensional fMRI Data*
2:45-3:00	Discussion
3:00-3:30	Break
	Optical Imaging
3:30-4:30	**Mark Reimers**, Michigan State *Issues in Data Analysis for Optical Imaging*
4:30-5:00	Discussion
5:00	Shuttle departs to hotel

Thursday, May 5th
SAMSI Room 150

8:30	Shuttle
	Inverse Problems
9:00–9:30	**Julianne Chung**, Virginia Tech *Computational Methods for Large-Scale Inverse Problems*
9:30-9:50	**Sarah Vallelian**, SAMSI *Reduced Order Modeling in Photoacoustic Tomography*
9:50-10:10	**Andrew Brown**, Clemson *Efficient Markov Chain Monte Carlo Methods for Hierarchical Bayesian Inverse Problems*
10:10-10:30	**Hoang Duy Thai**, SAMSI *Simultaneous Image Segmentation and Deconvolution*
10:30–11:00	Break MRI Processing Part 1

11:00–11:10	**Daniel Rowe** Marquette *A Gentle Introduction to Image Processing and Reconstruction in FMRI*
11:10-11:40	**Iain Bruce**, Duke *Quantifying Correlations Artificially Induced in fcMRI Data by the SENSE pMRI Model*
11:40-12:10	**Benjamin Risk**, SAMSI *Examination of Artifacts from Multiband Imaging*
12:10–1:30	Lunch
	MRI Processing Part 2
1:30-2:00	**Mary Kociuba**, Marquette *A Method to Mitigate Inter-slice Signal Leakage in SMS-fMRI*
2:00-2:20	**Adam Jaeger**, SAMSI *Topology and fMRI Data*
2:20-2:30	**Daniel Rowe** Marquette *The Current State of Image Processing and Reconstruction with Future Directions*
2:30-3:00	Break
	Structural Connectivity
3:00-3:30	**Sean Simpson**, Wake Forest School of Medicine *Disentangling Brain Graphs: the Conflation of Network and Connectivity Analyses*
3:30-4:00	**Jian Cheng**, NIH *Mapping Tissue Microstructure using Spherical Polar Fourier Diffusion MRI*
4:00-4:30	**Zhengwu Zhang**, SAMSI *Robust Human Brain Structural Connectivity Analysis*
4:30-5:00	**Lu Wang**, Duke *Bayesian Network-Response Regression*
5:00-7:00	Poster Session and Reception
7:00	Shuttle departs to hotel

Friday, May 6th
SAMSI Room 150

8:30	Shuttle
	Imaging Genetics
9:00-9:30	**Michele Guindani,** MD Anderson *Integrative Bayesian Modeling Approaches to Imaging Genetics*
9:30–10:00	**Yihong Zhao**, NYU *Imaging Genetics toward Mechanistic Understanding of Psychiatric Disorders*
10:00–10:30	Break
10:30-11:00	**Chintan Mehta**, Yale *Identifying Genetic Variants for Learning Ability with Neuroimaging*
11:00-11:30	**Jasmine Yang**, UNC *Imaging Genetic Analysis for PNC Behavioral Data*
11:30-12:00	**Hongtu Zhu**, UNC
12:00	Closing Remarks and Box Lunch
1:00	Shuttle to RDU Airport