Massive Datasets Transition Workshop
May 20-22, 2013

SCHEDULE

Monday, May 20
Radisson Room H

8:15-8:45	Registration and Continental Breakfast
8:45-9:00	Welcome + Opening Remarks
	{Environment & Climate}
9:00-9:30	**Dorit Hammerling** (SAMSI) *"A Bayesian Hierarchical Model for Climate Change Detection and Attribution"*
9:30-10:00	**Matthias Katzfuss** (Heidelberg, Germany) *"Statistical Inference for Massive Distributed Spatial Data Using Low-Rank Models"*
10:00-10:30	**Peter Thorne** (CICS-NC) *"The International Surface Temperature Initiative: Opportunities to engage in creating land surface air temperature datasets for the 21st Century"*
10:30-11:00	Break
	{Online Streaming & Sketching}
11:00-11:30	**Michael Mahoney** (Stanford) *"Revisiting the Nystrom Method for Improved Large-Scale Machine Learning"*
11:30-12:00	**David Lawlor** (SAMSI) *"Regression in High Dimensions via Geometric Multi-Resolution Analysis"*
12:00 -12:30	**Garvesh Raskutti** (SAMSI) *"Leverage-Score Sampling for Large-Scale Linear Regression"*
12:30-2:00	Lunch
	{High Energy Physics}
2:00-2:15	**Steffen Bass** (Duke) *"Do You Speak Klingon? - The Challenges of Creating a Successful Collaboration Between Physicists and Statisticians"*

2:15-2:45	**Peter Marcy** (Wyoming) *"Towards Calibration in High-Energy Physical Models Using ATLAS Histogram Data"*
2:45-3:15	**Chris Coleman-Smith** (Duke) *"A Physicists Take on the Design and Analysis of Computer Experiments"*
3:15-3:30	**Karen Kafadar** (Indiana) *"Future Directions for Statistics in High-Energy Physics"*
3:30-5:30	Meeting of Individual WGs (discuss transition and prepare final report)
5:30	Poster Reception *SAMSI will provide poster presentation boards and tape. The board dimensions are 4 ft. wide by 3 ft. high. They are tri-fold with each side being 1 ft. wide and the center 2 ft. wide. Please make sure your poster fits the board. The boards can accommodate up to 16 pages of paper measuring 8.5 inches by 11 inches.*

Tuesday, 21 May
Radisson Room H

8:30-9:00	Registration and Continental Breakfast
	{Inference}
9:00-9:30	**Xia Wang** (University of Cincinnati) *"Bayesian Large-Scale Multiple Testing for Time Series Data"*
9:30-10:00	**Tao Yu** (National University of Singapore) *"Local Polynomial Estimation of the Semi-Nonparametric Models: Joint Asymptotic Studies"*
10:00	**Yuefeng Liu** (UNC) *"Large-Margin Classifier Selection via Decision Boundary Stability"*
10:30-11:00	Break
	{Datamining & Clustering}
11:00-11:30	**Ralph Abbey** (NCSU) *"Stochastic Data Clustering"*
11:30-12:00	**Shaina Race** (NCSU) *"Iterative Consensus Clustering"*
12:00 - 2:00	Lunch

	{Astrostatistics}
2:00-2:30	**Tamas Budavari** (Johns Hopkins) *"Big-Data Inference on GPUs"*
2:30-3:00	**Robert Wolpert** (Duke) *"LARK Models for Light Curves"*
3:00-3:30	**Mary Beth Broadbent** (Duke) *"Levy Adaptive Regression Kernels with Applications for Gamma-Ray Burst Lightcurves"*
3:30-4:00	Break
	{Discovery & Classification in Synoptic Surveys}
4:00-4:30	**Fabrizia Guglielmetti** (Max Planck Institut, Germany) *"Challenges and Possible Solutions in Image Analysis"*
4:30-5:00	**G. Jogesh Babu** (Penn State) *"Exploratory Analysis of Light Curves"*
5:00	Meeting of individual WGs (discuss transition and prepare final report)

Wednesday, 22 May
Radisson Room H

8:30-9:00	Registration and Continental Breakfast
	{Multiscale Modeling}
9:00-9:30	**David Dunson** (Duke) *"Multiresolution Dictionary Learning for Conditional Distributions"*
9:30-10:00	**Mauro Maggioni** (Duke) *"Multiscale Estimation of Probability Measures in High Dimensions"*
10:00-10:30	**Marco Ferreira** (Missouri) *"Dynamic Multiscale Spatiotemporal Models for Poisson Data"*
10:30-11:00	Break

	{Imaging}
11:00-11:30	**Ashish Mahabal** (Caltech) + **Lingsong Zhang** (Purdue) *"Analyzing Light Curves of Astronomical Sources"*
11:30-12:00	**Weihong Guo** (Case Western) + **Dan Yang** (SAMSI) *"Compressive Inference"*
12:00-12:30	**Dani Ushizima** (Lawrence Berkeley National Lab) *"Image Analysis and Scientific Computing"*
12:30-2:00	Lunch
2:00-2:30	**Ilse Ipsen** (SAMSI and NCSU) **Richard Smith** (SAMSI): Where do we go from here?
2:30-5:00	Meeting of Individual WGs (discuss transition and prepare final report)
5:00	Good Bye Party