

Fields-CANSSI Thematic Program: Statistical Inference, Learning and Models for Big Data

Graduate Course #2
January 2015 – April 2015

Topics in Inference for Big Data

Tentative Schedule

Week	Date	Thematic Program Activity	Topic [*]	Instructor
1	Jan 05–Jan 09		Introduction & some basics.	Nancy Reid; Mu Zhu
2	Jan 12–Jan 16	<i>Opening Boot Camp</i>	Optimization & machine learning.	Mu Zhu; Stephen Vavasis (G)
3	Jan 19–Jan 23	<i>Opening Boot Camp</i>	Unsupervised learning & network data.	Mu Zhu; Eric Kolaczyk (G)
4	Jan 26–Jan 30	<i>Machine Learning Workshop</i>	Towards deep learning.	Mu Zhu; Roger Grosse (G)
5	Feb 02–Feb 06		Ensembles.	Mu Zhu
6	Feb 09–Feb 13	<i>Optimization Workshop</i>	Support vector machines & kernels.	Mu Zhu
	Feb 16–Feb 20	<i>Reading Week</i>		
7	Feb 23–Feb 27	<i>Visualization Workshop</i>	Visualization.	Nancy Reid; Guest Lecturer Bowe Xi, Purdue
8	Mar 02–Mar 06		Inference.	Nancy Reid
9	Mar 09–Mar 13		Planning of studies.	Nancy Reid
10	Mar 16–Mar 20	<i>Health Policy Workshop</i>	Differential Privacy.	Nancy Reid; Guest Lecturer TBA
11	Mar 23–Mar 27		Summary, applications, & discussions.	Nancy Reid; Mu Zhu
	Mar 30–Apr 03	<i>Good Friday</i>		
12	Apr 13–Apr 17	<i>Social Policy Workshop</i>	Paper due April 13; Peer Review due April 20	
	Jun 13–Jun 14	<i>Closing Conference</i>		

**Fields-CANSSI Thematic Program:
Statistical Inference, Learning and Models for Big Data**

**Graduate Course #2
January 2015 – April 2015**

Topics in Inference for Big Data

Tentative Schedule

[] Subject to change. [**] May be eliminated depending on enrollment.*