Brains, Minds and Machines Summer Course 2019

MBL Rooms Reserved			Morning 9:15 - 10:30	10:30 - 10:45	10:45 - 12:00	12:00 - 1:30	Afternoon 1:30 - 2:45	2:45 - 3:00	3:00 - 4:30	4:30 - 6:00	6:00 - 8:00	8:00 - 9:00	9pm on	LEGEND
	Aug-8	Thurs	Student/staff move in								Reception: 5pm Swope Terrace			Lecture
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-9	Friday	Tommy Poggio: Introduction to CBMM	Gabriel Kreiman: Introduction to the summer course	BREAK	Student introductions	LUNCH	MBL Orientation [45 minutes]	Student introductions	BREAK	TA introductions and contact info	Project introductions	Dinner	Project introductions	Project introductions	Seminar Talk: Lillie Auditorium
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-10	Sat	Christof Koch: Integrated theory of consciousness	BREAK	Tutorial: Math & programming office hours	LUNCH	Tutorial: Statistics and data analysis	BREAK	Tutorial: Basic Neuroscience	Tutorial: Deep learning	Dinner	NOTE: 7PM: Massey lecture: Christof Koch:The Diversity of Cell Types in the Human Brain (MCN/CBMM cohosted talk)	MBL to host reception in Meigs Room	Seminar Talk
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-11	Sun	Christof Koch: Brain observatory	BREAK	Michael Buice. Computational models of mouse visual cortex and tutorial on Allen Institute Data Observatory	LUNCH	Tutorial: RL	BREAK	Tutorial: Computer vision overview	Tutorial: Deep learning hands on	Dinner	Tutorial: Experimental design	Project discussion	Panel Discussion
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-12	Mon	Tutorial: Neuroscience data analysis	BREAK	Tutorial: Neuroscience data analysis	LUNCH	Gabriel Kreiman: Recurrent computations in cortex	BREAK	Jim DiCarlo: Visual recognition in primates	Tutorial: RL hands on	Dinner	Tutorial: Computational modeling of primate vision	Project discussion	Tutorial (Loeb 306)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-13	Tues	Lorenzo Rosasco: Machine learning 1	BREAK	Lorenzo Rosasco: Machine learning 2	LUNCH	Alexander Rakhlin: How to learn with streaming data	BREAK	Lorenzo Rosasco: Machine Learning [?]	Lorenzo Rosasco: Machine Learning [?]	Dinner	Jeff Lichtman: Connectomics At The Nano- and Petascale	Swope Terrace	Project (Loeb 306)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-14	Wed	Marge Livingstone: Functional Modules: what good are they and how do we get them?	BREAK	Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles	LUNCH	Project work time	BREAK	Beach party	Beach party	Dinner	"X [Google X] Happy Hour" 7pm, 41-70 Restaurant	Project work time	Social (location TBD)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-15	Thurs	Josh Tenenbaum: Computational models of cognition	BREAK	Josh Tenenbaum: Computational models of cognition	LUNCH	Bob Desimone: Visual attention	BREAK	Tensorflow Tutorial [Josh Gordon]	Tensorflow Tutorial [Josh Gordon]	Dinner	Pietro Perona: TBD; Lillie Auditorium	MBL Club	Activity
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-16	Friday / Industry Day	Probabilistic programming tutorial	BREAK	Lisa Amini (IBM)	LUNCH	Industry afternoon, Hiromichi Kobashi, (Fujitsu)	BREAK	Mondira Pant (Intel)	Project work time [T-shirt designs due by 5PM]	Dinner	Industry evening: Phil Nelson (Google). TBD; Lillie Auditorium	Swope Terrace	

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Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-17	Sat	Julian Jara-Ettinger:	BREAK	Winrich Freiwald: Faces and social interactions	LUNCH	Nancy Kanwisher: functional specificity of the human brain	BREAK	Dorin Comaniciu: Shaping the Future through Innovations: Artificial Intelligence for Healthcare	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-18	Sun	Project work time [day of Falmouth Road Race; main roads will be closed @ 9am-12noon]	BREAK	Project work time	LUNCH	Project work time				Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-19	Mon	Matt Wilson: Hippocampal mechanisms of memory and cognition .	BREAK	Gabriel Kreiman: Memory in humans	LUNCH	Haim Sompolinsky: Computational Neuroscience	BREAK	Thomas Serre: What are the computations underlying primate versus machine vision? .	Discussion Panel: The Ethics of Artificial Intelligence. Matt Wilson	Dinner	Reverse Debate	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-20	Tues	Martha's Vineyard Trip							Return from Martha's Vineyeard	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-21	Wed	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-22	Thurs	Andrei Barbu: Vision + Language .	BREAK	Stefanie Tellex: Robotics	LUNCH	Nick Roy: Robotics	BREAK	Pawan Sinha: TBD	Discussion Panel: alumni + industry panel	Dinner	Project work time	?	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-23	Friday	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-24	Sat	Team Challenge - Boats?	BREAK	Team Challenge [Location?]	LUNCH	Josh McDermott: Auditory Scene Analysis	BREAK	Boris Katz & Tal Linzen: AI / Language 2 .	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-25	Sun	Sam Gershman: Structure learning and the growth of knowledge	BREAK	Liz Spelke: Development 2	LUNCH	Project work time	BREAK	Jeremy Wolfe: OMG, I did not see that! The science of missing what is right in front of your eyes.	Project work time	Dinner	Project work time	Project work time	

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Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-26 Mon		Project work time	BREAK	Project work time	LUNCH	Laura Schulz: Development 1	BREAK	Project work time	Project work time	Dinner	Project work time	Project work time		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-27 Tue		Project work time	BREAK	Project work time	LUNCH	Student Presentations	BREAK	Student Presentations	Student Presentations	Dinner	Project work time	Project work time		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-28 Wed		Student Presentations	BREAK	Student Presentations	LUNCH	Student Presentations	BREAK	Student Presentations		Closing Reception 7pm Swope Terrace				
	Aug 29th		Student/Staff Move out												