Brains, Minds and Machines Summer Course 2018

MBL Rooms Reserved				Morning				Afternoon							LEGEND
				9:15 - 10:30	10:30 - 10:45	10:45 - 12:00	12:00 - 1:30	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	
	Thur	Aug	9	Student/staff move in							Reception: 5pm Swope Terrace				Lecture (Lillie auditorium)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	10	Tommy Poggio: Introduction to CBMM | Gabriel Kreiman: Introduction to the summer course	10:30am: Eric Schmidt	Eric Schmidt | Student introductions [60 minutes]	LUNCH	MBL Orientation [30 minutes] | Student introductions	BREAK	TA introductions and contact info	Project introductions	Dinner	Project introductions	Project introductions	Seminar Talk (Lillie)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	11	Tutorial: Linear Algebra	BREAK	Tutorial: Basic Neuroscience	LUNCH	Nikos Logothetis	BREAK	Tutorial: Probability	Tutorial: Programming	Dinner	Tutorial: Computational modelling of human vision	Project discussion	Seminar Talk (Speck)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	12	Tutoria: Optimization	BREAK	Tutorial: Deep learning	LUNCH	Tutorial: Statistics and data analysis	BREAK	Tutorial: Computer vision overview	Tutorial: Neuroscience methods	Dinner	**Evening Seminar talk: Nikos Logothetis**	Reception Location: The 41-70 Restaurant 71 W	Panel Discussion (Lillie)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	13	Jim Dicarlo Visual recognition in primates	BREAK	Gabriel Kreiman: Recurrent computations in cortex	LUNCH	Tutorial: Neuroscience data analysis	BREAK	Phillip Nelson: TBD	Tutorial: Deep learning hands on	Dinner	Evening Seminar talk: Leslie Valiant	Project discussion	Tutorial (Loeb 306)
Lecture: Lillie Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	14	Lorenzo Rosasco: Machine learning 1	BREAK	Lorenzo Rosasco: Machine learning 2	LUNCH	Alexander Rakhlin: Theory of machine learning	BREAK	Lorenzo Rosasco: Machine Learning [?]	Lorenzo Rosasco: Machine Learning [?]	Dinner	**Evening Seminar talk: Jeff Lichtman. Does connectomics make sense?**	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Project (Loeb 306)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	15	Tutorial: Signal Processing	BREAK	Jack Hidary: TBD	LUNCH	Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles	BREAK	Tutorial: RL	Tutorial: Probabilistic Programming	Dinner	Tutorial: Psychophysics and data analysis	Project work time	Social (location TBD)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Thur	Aug	16	Josh Tenenbaum: Computational models of cognition .	BREAK	Josh Tenenbaum: Computational models of cognition	LUNCH	Jeremy Wolfe: What are you searching for?.... and how do you do it?	BREAK	Beach party	Beach party	**[7PM - 8:30PM] Massey Family MCN/BMM Lecture: Terry Sejnowski "Artificial Intelligence Meets Human Intelligence" Speck Auditorium** **Reception at MBL Club**	Project work time	Activity
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	17	Bob Desimone: Visual attention [Recorded presentation]	BREAK	Winrich Freiwald: Faces and social interactions	LUNCH	Project work time	BREAK	Dorin Comaniciu: Shaping the Future through Innovations: Artificial Intelligence for Healthcare	Project work time	Dinner	Project work time	Project work time	

Brains, Minds and Machines Summer Course 2018

				Morning				Afternoon							LEGEND
MBL Rooms Reserved				9:15 - 10:30	10:30 - 10:45	10:45 - 12:00	12:00 - 1:30	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	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	18	Project work time	BREAK	Marge Livingstone: Functional Modules: what good are they and how do we get them?	LUNCH	Nancy Kanwisher: functional specificity of the human brain	BREAK	Stu Feldman: Spreading the Use of Big Data in Scientific Research	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	19	Project work time			LUNCH	Project work time				Dinner	Project work time		
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	20	Matt Wilson: Hippocampal mechanisms of memory and cognition	BREAK	Gabriel Kreiman: Memory in humans	LUNCH	Haim Sompolinsky: Computational Neuroscience	BREAK	Discussion Panel: The Ethics of Artificial Intelligence. Matt Wilson	Project work time	Dinner	Project work time	Project work time	
Lecture: Candle House Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	21	Martha's Vineyard Trip [day of Falmouth Road Race; main roads will be closed @ 9am-12noon]							Return from Martha's Vineyeard	Dinner		Stony Beach evening swim 10-11:30pm	
Sat 8/26: Speck (capacity 140) 8/25-8/28: Candle House (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	22	Laura Schulz: Development 1	BREAK	Liz Spelke: Development 2	LUNCH	[Optional] 2pm Bret Grasse 2:20pm Roger Hanlon Cephalopod brain and behavior; tour	BREAK	Project work time	Project work time	Dinner	Reverse Debate	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Thur	Aug	23	Project work time	BREAK	Stephanie Tellex: Robotics	LUNCH	Andrei Barbu: Vision + Language	BREAK	Josh McDermott: Auditory Scene Analysis	Roger Levy: Linguistics	Dinner			
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	24	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner			
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	25	Team Challenge - Boats?	BREAK	Team Challenge [Location?]	LUNCH	Dylan Homes: AI / Language 1 [Dylan is presenting on behalf of Patrick Winston]	BREAK	Boris Katz & Ev Fedorenko: AI / Language 2	Sam Gershman: Structure learning and the growth of knowledge	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	26	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time	Ice cream social (9pm, Loeb 302)	

			Morning				Afternoon									LEGEND
Brains, Minds and Machines Summer Course 2018																
MBL Rooms Reserved			9:15 - 10:30	10:30 - 10:45	10:45 - 12:00	12:00 - 1:30	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**
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	27	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time			
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	28	Project work time	BREAK	Student Presentations	LUNCH	AI Panel	BREAK	Student Presentations	Student Presentations	Dinner	Project work time			
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	29	Project work time	BREAK	Student Presentations	LUNCH	Student Presentations	BREAK	Student Presentations		Closing Reception 7pm TBD				
	Thur	Aug	30	Student/Staff Move out												