

Brains, Minds and Machines Summer Course 2018															
				Morning				Afternoon							
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
	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	<u>Tommy Poggio: Introduction to CBMM</u> <u>Gabriel Kreiman: Introduction to the summer course</u>	10:30am: <u>Eric Schmidt</u>	<u>Eric Schmidt   Student introductions</u> [60 minutes]	LUNCH	<u>MBL Orientation</u> [30 minutes]   <u>Student introductions</u>	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	<u>Nikos Logothetis</u>	BREAK	Tutorial: Probability	Tutorial: Programming	Dinner	Tutorial: Computational modelling of human vision	Project discussion & Reception	Panel Discussion (Lillie)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	12	Tutorial: Optimization	BREAK	Tutorial: Deep learning	LUNCH	Tutorial: Statistics and data analysis	BREAK	Tutorial: Computer vision overview	Tutorial: Neuroscience methods	Dinner	<u>Evening Seminar talk: Nikos Logothetis</u>	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Tutorial (Loeb 306)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	13	<u>Jim Dicario Visual recognition in primates</u>	BREAK	<u>Gabriel Kreiman: Recurrent computations in cortex</u>	LUNCH	Tutorial: Neuroscience data analysis	BREAK	<u>Phillip Nelson: TBD</u>	Tutorial: Deep learning hands on	Dinner	<u>Evening Seminar talk: Leslie Valiant</u>	Project discussion	Project (Loeb 306)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	14	<u>Lorenzo Rosasco: Machine learning 1</u>	BREAK	<u>Lorenzo Rosasco: Machine learning 2</u>	LUNCH	<u>Alexander Rakhlin: Theory of machine learning</u>	BREAK	<u>Lorenzo Rosasco: Machine Learning [?]</u>	<u>Lorenzo Rosasco: Machine Learning [?]</u>	Dinner	<u>Evening Seminar talk: Jeff Lichtman. Does connectomics make sense?</u>	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Social (location TBD)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	15	Tutorial: Signal Processing	BREAK	<u>Jack Hidary: TBD</u>	LUNCH	<u>Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles</u>	BREAK	Tutorial: RL	Tutorial: Probabilistic Programming	Dinner	Tutorial: Psychophysics and data analysis	Project work time	Underlined speakers are confirmed
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Thur	Aug	16	<u>Josh Tenenbaum: Computational models of cognition</u>	BREAK	<u>Josh Tenenbaum: Computational models of cognition</u>	LUNCH	<u>Jeremy Wolfe: What are you searching for?... and how do you do it?</u>	BREAK	Beach party?	Beach party?	Dinner	<u>Massey Family MCN/BMM Lecture: Terry Sejnowski (Title To be announced)</u>	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Activity
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	17	<u>Bob Desimone: Visual attention</u> [Recorded presentation]	BREAK	<u>Winrich Freiwald: Faces and social interactions</u>	LUNCH	<u>Rebecca Saxe: Social perception</u>	BREAK	<u>Dorin Comaniciu: Shaping the Future through Innovations: Artificial Intelligence for Healthcare</u>	Academia/Industry/Start-up AI panel [Location?]	Dinner	Project work time	Stargazing with Max?	

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Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	18	Max Tegmark: Physics and deep learning	BREAK	Marge Livingstone: <u>Functional Modules: what good are they and how do we get them?</u>	LUNCH	Nancy Kanwisher: <u>functional specificity of the human brain</u>	BREAK	Stu Feldman: <u>TBD</u>	Discussion Panel: Recent grads in industry panel	Dinner	Evening Seminar talk: Jack Hidary [most likely to be canceled, with presentation from Hidary a few days earlier]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	19	Martha's Vineyard Trip							Return from Martha's Vineyard		Project work time	Project work time				
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	20	Matt Wilson: <u>Hippocampal mechanisms of memory and cognition</u>	BREAK	Gabriel Kreiman: <u>Memory in humans</u>	LUNCH	Haim Sompolsky: <u>Computational Neuroscience</u>	BREAK	Discussion Panel: The Ethics of Artificial Intelligence. Matt Wilson and Max Tegmark [Location?]	Project work time	Dinner	Evening Seminar talk:	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA				
Lecture: Candle House Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	21	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner		Stony Beach Social 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	Project work time	BREAK	Koch / Allen Institute presentation	Koch / Allen Institute presentation	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	Stephanie Tellex: Robotics	BREAK	Patrick Winston: AI / Language 1 [Probably in remote format?]	LUNCH	Andrei Barbu: <u>Vision + Language</u>	BREAK	Josh McDermott: <u>Auditory Scene Analysis</u>	Roger Levy: <u>Linguistics</u>	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	Project work time	BREAK	Boris Katz & Ev Fedorenko: <u>AI / Language 2</u>	Sam Gershman: <u>Structure learning and the growth of knowledge</u>	Dinner	Project work time	Project work time				

