

Brains, Minds and Machines Summer Course 2017															
				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
	Sun	Aug	13	Student/staff move in							Reception: 5pm Swope Terrace				Lecture (Speck/Loeb G70/Candle House)
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	14	<u>Tommy Poggio: Introduction to CBMM I</u> <u>Gabriel Kreiman: Introduction to the summer course</u> [Speck Auditorium]	BREAK	Student introductions [Speck Auditorium]	LUNCH	Student introductions [Speck Auditorium]	BREAK	Project introductions [Loeb 306]	Project introductions [Loeb 306]	Dinner	<u>8:00 -- 9:00: Evening Seminar talk: Larry Abbott: Progress and Challenges in the Neurobiology of the Fly</u> [Speck Auditorium]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Seminar Talk (Speck/Loeb G70/Candle House)
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	15	<u>Xavier Boix: Linear Algebra</u> [Loeb 306]	BREAK	<u>David Feng: Allen Brain Institute Data Sets</u> [Speck Auditorium]	LUNCH	Francisco Flores: Neuroscience tutorial [Loeb 306]	BREAK	<u>Ethan Meyers: Statistics and data Analysis</u> [Loeb 306]	<u>Ethan Meyers: Neural data analysis</u> [Loeb 306]	Dinner	<u>7:30 -- 8:30: Evening Seminar talk: Christof Koch: Consciousness</u> [Speck Auditorium]	Social Location: MBL Quad	Panel Discussion (Speck/Loeb G70)
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	16	<u>Jim DiCarlo: Visual recognition in primates</u> [Speck Auditorium]	BREAK	<u>Gabriel Kreiman: Recurrent computations in cortex</u> [Speck Auditorium]	LUNCH	<u>Andrei Barbu: Probability</u> [Loeb 306]	BREAK	Francisco Flores, Candace Ross: Programming tutorial [Loeb 306]	<u>Yen-Ling Kuo, Candace Ross: Deep learning tutorial</u> [Loeb 306]	Dinner	Project discussion		Tutorial (Loeb 306)
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Thur	Aug	17	<u>Bob Desimone: Visual attention</u> [Speck Auditorium]	BREAK	<u>Jim Haxby: A computational model of shared fine-scale structure in human cortex</u> [Speck Auditorium]	LUNCH	<u>Andrei Barbu: Computer vision tutorial</u> [Loeb 306]	BREAK	<u>Kevin Smith: Optimization</u> [Loeb 306]	Francisco Flores, Candace Ross: Programming tutorial. Part 2 [Loeb 306]	Dinner	Project discussion	Social Location: MBL Quad	Project (Loeb 306)
Lecture: Lillie Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	18	<u>Marge Livingstone: Functional Modules: what good are they and how do we get them?</u> [Lillie Auditorium]	BREAK	<u>Winrich Freiwald: Faces and social interactions</u> [Lillie Auditorium]	LUNCH	Tomaso Poggio: Machine learning 2 [Lillie Auditorium]	BREAK	Academia/Industry/Start-up AI panel [Jack Hidary, Greg Sorensen and others TBD]	Academia/Industry/Start-up AI panel [Jack Hidary, Greg Sorensen and others TBD]	Dinner	<u>Evening Seminar: Dorin Comaniciu: Artificial Agents and Personalized Medicine</u> [Speck Auditorium]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	Social (location TBD)
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	19	<u>Lorenzo Rosasco: Machine learning 1</u> [Speck Auditorium]	BREAK	<u>Lorenzo Rosasco: Machine learning 2</u> [Speck Auditorium]	LUNCH	<u>Lorenzo Rosasco: Machine Learning</u> [Loeb 306]	BREAK	<u>Lorenzo Rosasco: Machine Learning</u> [Loeb 306]	Project work time	Dinner	<u>Evening Seminar: Jack Hidary [Title to be announced]</u> [Speck Auditorium]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA	<u>Underlined speakers are confirmed</u>
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	20	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time		Reunion activities

Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	21	<u>Josh Tenenbaum: Computational models of cognition</u> [Speck Auditorium]	BREAK	<u>Rebecca Saxe: Social perception I</u> [Speck Auditorium]	LUNCH	Eclipse	BREAK	<u>Diego Mendoza-Halliday: Neuroscience methods</u> [Loeb 306]	<u>Tomer Ullman, Kevin Smith: Church programming language</u> [Loeb 306]	Dinner	Project work time	Social Location: MBL Quad		
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Tue	Aug	22	<u>Wiktor Mlynarski: Audition / Singal Processing</u> [Loeb 306]	BREAK	<u>Matthew Peterson: Computational modeling of human vision</u> [Loeb 306]	LUNCH	<u>Jiye Kim, Laurie Bayet: Psychophysics and mTurk</u> [Loeb 306]	BREAK	<u>Haim Sompolinsky: Computational Neuroscience</u> [Speck Auditorium]	Project work time	Dinner	<u>Evening Seminar talk: Jeff Lichtman</u> [Connectomics] [Speck Auditorium]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA		
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Wed	Aug	23	Project work time *Martha's Vineyard trip has been rescheduled to Fri., Aug. 25th due to inclement weather		Project work time		Project work time		Project work time	Project work time	Dinner	Project work time	Stony Beach Social 10-11:30pm		
Lecture: Speck (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Thur	Aug	24	<u>Matt Wilson: Memory in rodents.</u> [Speck Auditorium]	BREAK	<u>Gabriel Kreiman: Memory in humans</u> [Speck Auditorium]	LUNCH	<u>Shimon Ullman: The digital baby - innate mechanisms and learning in vision</u> [Speck Auditorium]	BREAK	Discussion Panel: The Ethics of Artificial Intelligence. Matt Wilson and Max Tegmark [Speck Auditorium]	Project work time	Dinner	<u>Evening Seminar talk: Max Tegmark. The physics of intelligence</u> [Speck Auditorium]	Reception Location: The 41-70 Restaurant 71 Water St, Falmouth, MA		
Lecture: Candle House Main Lab: Loeb 306 Kitchen: Loeb 302	Fri	Aug	25	Martha's Vineyard Trip							Return from Martha's Vineyard	Reunion Welcome Dinner. 6pm, Swope Terrace. All current students and alumni invited.				
Sat 8/26: Speck (capacity 140) 8/25-8/28: Candle House (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Sat	Aug	26	BMM Course Reunion 9 – 9:30 AM. Welcome / Introduction. T. Poggio and G. Kreiman [Speck Auditorium] 9:30 – 10:30. 12 presentations by former students. 3 minutes each. Talk Group A. [Speck Auditorium]	BREAK	11 - 12: Problem solving game / trivia [Speck Auditorium]	LUNCH	2:00 – 3:00. 11 presentations by former students. 3 minutes each. Talk Group B. [Speck Auditorium]	BREAK	3:30 - 5:00: Faculty panel discussion: Josh Tenenbaum, Nancy Kanwisher, Tomaso Poggio, Gabriel Kreiman, and Haim Sompolinsky [Speck Auditorium]	5:00-6:00: 11 presentations by former students. 3 minutes each. Talk Group C. [Speck Auditorium]	Dinner	BREAK	Social: 9:30pm at Landfall		
8/25-8/28: Candle House (9AM-5:30PM) Sun. 8/27: Loeb G70 Main Lab: Loeb 306 Kitchen: Loeb 302	Sun	Aug	27	9:30 - 10:00: Breakfast. Takeout from Pie in the Sky. [Swope Quad]		10:00 - 1:00: Team challenge [Swope Quad / Stony Beach]		1:00 - 3:00: Farewell BBQ [Swope Terrace]				Dinner				
Lecture: Candle House Main Lab: Loeb 306 Kitchen: Loeb 302	Mon	Aug	28	<u>Laura Schulz: Development 1</u> [Candle House]	BREAK	<u>Liz Spelke: Development 2</u> [Candle House]	LUNCH	<u>Nancy Kanwisher: functional specificity of the human brain</u> [Candle House]	BREAK	<u>Stephanie Tellex: Robotics</u> [Candle House]	Project work time	Dinner	Reverse Debate [Candle House]			

