Brains, Minds and Machines Summer Course 2022 Italics = invited   Underlined = confirmed

MBL Rooms Reserved	Date	Day	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 - 4:15	4:30 - 6:00	6:00 -- 8:00	8:00 - 9:00	9pm on	LEGEND
			Morning				Afternoon							
	Aug-4	Thurs	Student/staff move in								Welcome reception			Lecture
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb G70 Kitchen: Loeb G70	Aug-5	Friday	MBL Orientation [45 minutes]	BREAK	Tommy Poggio: Introduction to CBMM | Gabriel Kreiman: Introduction to the summer course	LUNCH	TA introductions and contact info	BREAK	Student introductions	Student introductions	Dinner	Project introductions	Project introductions	Seminar Talk: Lillie Auditorium
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-6	Sat	Tutorial: Basic math & stats using python (Felix Anthony Sosa)	BREAK	Tutorial: Statistics and data analysis (Colin Conwell)	LUNCH	Tutorial: Intro to Deep learning (Andrei Barbu)	BREAK	Tutorial: Deep learning theory and optimization (Akshay Rangamani)	Tutorial: Deep learning hands on (Akshay Rangamani, Colin Conwell)	Dinner	Project introductions	Project introductions	Seminar Talk
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-7	Sun	Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles	BREAK	Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles	LUNCH	Tutorial: Introduction to Neuroscience (Hector Penagos)	BREAK	Tutorial: Computational models of primate vision (Kohitij Kar, Martin Schrimpf)	Tutorial: Computer Vision Overview (Mengmi Zhang, Yen-Ling Kuo)	Dinner	Project discussion	Project discussion	Panel Discussion
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-8	Mon	Jim DiCarlo: Visual recognition in primates	BREAK	Jim DiCarlo: Visual recognition in primates	LUNCH	Tutorial: Signal Processing (Akshay Rangamani, Mengmi Zhang)	BREAK	Tutorial: Neuroscience data analysis (Hector Penagos, Kohitij Kar)	Tutorial: Computational models of language (Martin Schrimpf)	Dinner	Project discussion	Project discussion	Tutorial (Loeb 108)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-9	Tues	Tutorial: Computational models of visual attention (Lucia Schiatti, Mengmi Zhang, Yen-Ling Kuo)	BREAK	Project work time	LUNCH	Tutorial: psychophysics (Kohitij Kar)	BREAK	Tutorial: Reinforcement Learning (Andrei Barbu, Yen-Ling Kuo)	Tutorial: Reinforcement Learning hands-on (Lucia Schiatti, Yen-Ling Kuo)	Dinner	Jeff Lichtman: Connectomics At The Nano- and Petascale	Project discussion	Project (Loeb 108)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-10	Wed	Gabriel Kreiman: The brain's operating system	*BREAK*	Gabriel Kreiman: The brain's operating system	LUNCH	Tutorial: Probabilistic Programming (Felix Anthony Sosa)	BREAK	Marge Livingstone: What art can tell us about the brain	Project work time	Dinner	*Christof Koch: Consciousness*	Project work time	Social (location TBD)
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-11	Thurs	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	*Christof Koch / Saskia de Vries: Leveraging the Allen Brain Observatory data sets (re-scheduled to later)*	Dinner	Project work time	Project work time	Activity
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-12	Friday	Matt Wilson: Hippocampal mechanisms of memory and cognition	BREAK	Matt Wilson: Hippocampal mechanisms of memory and cognition	LUNCH	Michael Frank: Generalization and abstraction in reinforcement learning	BREAK	Project work time	Project work time	Dinner	Project work time	Project work time	Zoom Talk
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-13	Sat	Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Emery Brown: TBD	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-14	Sun	Andrei Barbu and Boris Katz: Language	BREAK	Andrei Barbu and Boris Katz: Language	LUNCH	Winrich Freiwald: Faces and social interactions	BREAK	Project work time	Project work time	Dinner	Project work time	Project work time	

		Morning				Afternoon							LEGEND
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Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-15 Mon	Project work time	BREAK	Josh Tenenbaum, 11:00 am-noon	LUNCH	Haim Sompolinsky: Computational Neuroscience	BREAK	Thomas Serre: What are the computations underlying primate versus machine vision?	Project work time	Dinner	NOTE: 7PM: Massey lecture: Tim Behrens [Joint MCN/BMM]	MBL to host reception in Meigs Room	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-16 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-17 Wed	Project work time	BREAK	Josh McDermott: Auditory cortex	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-18 Thurs	Nancy Kanwisher: functional specificity of the human brain	BREAK	Nancy Kanwisher: functional specificity of the human brain	LUNCH	Robert Yang: TBD	BREAK	Project work time	Project work time	Dinner	Movie Night (Speck Auditorium)	Movie Night (Speck Auditorium)	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-19 Friday	Theory Day: tp+Akshay+tomer Galanti+ Eran Malach +Santosh Vempala	BREAK	Theory Day: tp+Akshay+tomer Galanti+ Eran Malach +Santosh Vempala	LUNCH	Theory Day: tp+Akshay+tomer Galanti+ Eran Malach +Santosh Vempala	BREAK	Theory Day: tp+Akshay+tomer Galanti+ Eran Malach +Santosh Vempala	Theory Day: tp+Akshay+tomer Galanti+ Eran Malach +Santosh Vempala	Dinner		Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-20 Sat	Team Challenge - Boat building (tent ouside Loeb)	BREAK	Team Challenge - Boat building (tent ouside Loeb)	LUNCH (venue: tent outside Loeb)	Team Challenge - Boat competition (Stony beach)	BREAK	Team Challenge - Boat competition (Stony beach)	Project work time	Dinner	Project work time	Project work time	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-21 Sun	Alumni Day: Carlos Ponce, Leyla Isik, Bill Lotter, Kohitij Kar	BREAK	Alumni Day: Carlos Ponce, Leyla Isik, Bill Lotter, Kohitij Kar	LUNCH Swope Terra	Alumni Day: Carlos Ponce, Leyla Isik, Bill Lotter, Kohitij Kar	BREAK	Stefanie Tellex: Robotics	Project work time	Dinner	Project work time	Reception @Landfall	
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-22 Mon	Sam Gershman, TBD	BREAK		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-23 Tue	Student Presentations	BREAK	Student Presentations	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-24 Wed	Student Presentations	BREAK	Student Presentations	LUNCH	Student Presentations	BREAK	Student Presentations	Student Presentations	Closing Reception 6-9pm Swope Terrace			
	Aug-25	Student/Staff Move out		Bike pickup 11am									