

Brains, Minds and Machines Summer Course 2024													Italic = invited	Underlined = confirmed											
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 - 4:15	4:30 - 6:00	6:00 -- 8:00	8:00 - 9:00	9pm on								LEGEND				
	Aug-4	Sunday	Student/staff move in								Dinner										Lecture				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-5	Monday	MBL Orientation [45 minutes]	BREAK	Tommy Poggio + Gabriel Kreiman: Introduction to BMM and the summer course	LUNCH	TA introductions and contact info	BREAK	Student introductions	Student introductions	Welcome reception 6p Swope Lower Terrace	Project introductions	Project introductions								Seminar Talk: Lillie Auditorium				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-6	Tuesday	Tutorial: Tutorial: Introduction to Neuroscience (Hector)	BREAK	Tutorial: Intro to Deep learning (Morgan)	LUNCH	Tutorial: Deep learning hands on (Colin)	BREAK	Tutorial: Statistics and Data Analysis (Colin)	Tutorial: High-Throughput, Brain & Behavioral Benchmarking - Deep Juice (Colin)	Dinner	Project introductions	Project introductions								Seminar Talk				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-7	Wednesday	Jim DiCarlo: Visual recognition in primates	BREAK	Jim DiCarlo: Visual recognition in primates	LUNCH	Tutorial: Computational models of primate vision (Ko)	BREAK	Tutorial: Psychophysics (Ko)	Tutorial: Machine Learning Basics and Practices (Morgan)	Dinner	Jeff Lichtman: Connectomics At The Nano- and Petascale	Reception @ Swope Upper Terrace								Panel Discussion				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-8	Thursday	Gabriel Kreiman: The brain's operating system	BREAK	Gabriel Kreiman: The brain's operating system	LUNCH	Tutorial: Reinforcement Learning (Yen-Ling)	BREAK	Tutorial: Computer Vision Overview (Mengmi)	Tutorial: Continual Learning (Mengmi)	Dinner	Project discussion	Project discussion								Tutorial (Loeb 108)				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-9	Friday	Tutorial: Computational models of visual attention (Lucia Mengmi)	BREAK	Tutorial: Computational models of language (Emily)	LUNCH	Tutorial: ThreeDWorld and Virtual Reality (Aryan)	BREAK	Project discussion	Marge Livingstone: What art can tell us about the brain [Zoom]	Dinner	Project discussion	Project work time								Project (Loeb 108)				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-10	Saturday	<b>Theory Workshop</b>	Tomaso Poggio: TBD	BREAK	Eran Malach: TBD	LUNCH	Tomer Galanti: TBD	BREAK	Santosh Vempala: TBD	TBD:	Dinner	Project work time	Project work time							Social (location TBD)				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-11	Sunday	<b>Theory Workshop</b>	Pierfrancesco Beneventano	BREAK	Jacob Andreas: TBD	LUNCH	Philip Isola: TBD	BREAK	Akshay Rangamani: TBD	TBD:	Dinner	Douglas Eck: An overview of Generative AI: music, video and image creation	Reception @ Swope Upper Terrace							Activity				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-12	Monday		Matt Wilson: Hippocampal mechanisms of memory and cognition	BREAK	Matt Wilson: Hippocampal mechanisms of memory and cognition	LUNCH	Ethics discussion	BREAK	Saskia DeVries: Neural data observatories	Emery Brown: Deciphering the Dynamics of the Unconscious Brain Under General Anesthesia	Dinner	Project work time	Project work time							Zoom Talk				
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-13	Tuesday	<b>Embodied AI Workshop</b>	Leslie Kaelbling	BREAK	Vikash Mansinghka	LUNCH	Stefanie Tellex: Robotics	BREAK	Leslie Kaelbling	Leslie Kaelbling	Dinner	Project work time	Project work time											
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-14	Wednesday	<b>Embodied AI Workshop</b>	Leslie Kaelbling	BREAK	Vikash Mansinghka	LUNCH	Vikash Mansinghka	BREAK	Vikash Mansinghka	Project work time	Dinner	Project work time	Project work time											
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-15	Thursday		Andrei Barbu and Boris Katz: Language	BREAK	Andrei Barbu and Boris Katz: Language	LUNCH	Haim Sompolinsky: Computational Neuroscience (Speck auditorium)	BREAK	Thomas Serre: What are the computations underlying primate vision? (Speck auditorium)	Winrich Freiwald: Faces and social interactions	Dinner	Project work time	Project work time											
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-16	Friday		Project work time	BREAK	Project work time	LUNCH	Project work time	BREAK	Project work time	Project work time	Dinner	Project work time	Watch Bioluminescence (Stony beach)											

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MBL Rooms Reserved															
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-17 Saturday		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-18 Sunday	*Falmouth Foot Race	<i>Nancy Kanwisher: functional specificity of the human brain</i>	BREAK	<i>Nancy Kanwisher: functional specificity of the human brain</i>	LUNCH	Project work time	BREAK	<i>Laura Shulz</i>	<i>Sam Gershman</i>	Dinner	Movie Night (Speck Auditorium)	Movie Night (Speck Auditorium)		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-19 Monday		Martha's Vineyard Trip							Return from Martha's Vineyard	Dinner		Project work time		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-20 Tuesday		Team Challenge - Boat building (tent outside Loeb, Spandan, Coco and Ko in charge)	BREAK	Team Challenge - Boat building (tent outside 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 Wednesday		<i>Alumni Day: Adam Yaari, Kohiti Kar, Candace Ross</i>	BREAK	<i>Alumni Day: Anna Leshinskaya, Yen-Ling Kuo</i>	LUNCH Swope Terra	<i>Alumni Day: Carlos Ponce, Bill Lotter</i>	BREAK	<i>Alumni Day: Hanlin Tang, Sue Yeon, followed by Q&amp;A panel with all alumni</i>	Discussions on magic, opportunities, challenges, and failures of LLMs (Loeb)	Dinner	Project work time	Project work time		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-22 Thursday		<i>Josh Tenenbaum: TBD</i>	BREAK	<i>Josh Tenenbaum: TBD</i>	LUNCH	<i>Josh McDermott</i>	BREAK	<i>Daniela Rus</i>	Project work time	Dinner	Project work time	Project work time		
Lecture: Lillie (9AM-5:30PM) Main Lab: Loeb 306 Kitchen: Loeb 302	Aug-23 Friday		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 Saturday		Student Presentations	BREAK	Student Presentations	LUNCH	Student Presentations	BREAK	Student Presentations	Student Presentations	Closing Reception 6-9pm Swope Upper Terrace				
	Aug-25 Sunday		Student/Staff Move out		Bike pickup 11am										