Brains, Minds and Machines Summer Course 2020

ALL TIMES ARE US ET (New York)

		12-1pm	1-1:15pm	1:15-2:15pm	2:15-2:30pm	2:30-3:30pm	3:30-3:45pm	3:45-4-45pm		LEGEND
08/10/2020	Monday	Tommy Poggio: Introduction to CBMM | Gabriel Kreiman | Boris Katz | Others: Introduction to the summer course	BREAK	Jim DiCarlo: Visual recognition	BREAK	Tutorial. Ethan Meyers: Using population decoding to understand neural content and coding	BREAK	Panel Discussion: Hilbert questions in AI [Kreiman, Poggio, Tellex]		Tutorial
08/11/2020	Tuesday	Christof Koch: Relating the structure of the brain to its function by tracking a net-wave of spikes up the visual hierarchy	BREAK	Aleksander Madry	BREAK	Gabriel Kreiman: Recurrent computations to the rescue		Virtual poster session		Lecture
08/12/2020	Wednesday	Tomaso Poggio: A theory of deep learning: explaining the approximation, optimization and generalization puzzles	BREAK	Tutorial: Andrei Barbu, Colin Conwell, David Mayo: From zero to machine vision to mouse brains	BREAK	Antonio Torralba: Dissecting neural networks	BREAK	Panel Discussion: What is the relationship between biological brains and AI algorithms? [Kanwisher, Serre, Tenenbaum]		Panel Discussion
08/13/2020	Thursday	Pietro Perona	BREAK	Boris Katz: AI / Language 2	BREAK	Andrei Barbu: Vision + Language	BREAK	Virtual poster session		Virtual poster session
08/14/2020	Friday	Josh Tenenbaum: Computational models of cognition	BREAK	Constantinos Daskalakis	BREAK	Nancy Kanwisher: functional specificity of the human brain	BREAK	Panel Discussion: Is there anything special about human intelligence? (vs. non-human animals, vs. machines) [Schulz, Wilson, Roy, Murthy]		

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08/17/2020	Monday	Marge Livingstone: Functional Modules: What Art can tell us about the Brain	BREAK	Winrich Freiwald: Faces and social interactions	BREAK	Tutorial: Marta Kryven: Probabilistic Programming		Panel Discussion: AI and Ethics [Kreiman, Max Tegmark, V.C. Muller, Tenenbaum]		
08/18/2020	Tuesday	Haim Sompolinsky	BREAK	Shimon Ullman: Scene understanding by bottom-up, top-down, visual routines.	BREAK	Christos Papadimitrious: Language in the brain		Virtual poster session		
08/19/2020	Wednesay	Stefanie Tellex	BREAK	Leslie Kaelbling: Making robots behave intelligently	BREAK	Tutorial: Mengmi Zhang: Toward Brain Computer Interface: Deep generative models for brain reading		Panel Discussion: The path towards general AI [Oliva, Gershman]		
08/20/2020	Thursday	Matt Wilson: Hippocampal mechanisms of memory and cognition .	BREAK	*CBMM Alumni Panel: Bill Lotter, Hanlin Tang, Andrea Tacchetti, Georgios Evangelopoulos, Yibiao Zhao, Gemma Roig, Leyla Isik*	BREAK	Lorenzo Rosasco: Machine Learning		Virtual poster session		
08/21/2020	Friday	Josh McDermott	BREAK	Tutorial: Arturo Deza: Perceptual Invariance in Humans and Machines	BREAK	Philip Nelson				