Neural Computation Workshop: Population Coding of High-Level Representations

Wednesday, 17 August

6:00 - 10:00	Welcome reception at Dartmouth Outing Club
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(North end of Occom Pond)

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8:30		Coffee, pastries, fruit
9:00 - 9:10	Haxby	Welcome and introductory comments
9:10 - 10:10	Simoncelli	Metamers of the ventral stream
10:10 - 10:30		coffee break
10:30 - 11:30	Connor	Neural coding of object structure in the ventral visual pathway
11:30 - 12:30	Poggio	The computational magic of the ventral stream: Towards a theory
12:30 - 2:00		lunch in Occom Commons and posters in Moore Hall 2 nd floor lounge
2:00 - 3:00	Cadieu	Learning intermediate-level representations of form and motion from natural movies
3:00 - 3:30		coffee break
3:30 - 4:30	DiCarlo	Untangling object recognition: Which neuronal population codes can explain human object recognition performance

Friday, 19 August

8:30		Coffee, pastries, fruit
9:00 - 10:00	Haxby	Building common models of neural representational spaces
10:00 - 10:30		coffee break
10:30 - 11:30	O'Toole	Understanding neural representation of facial identity, race, and viewpoint: Constraining the neural with the perceptual
11:30 - 12:30	Gallant	Using voxel-wise encoding models to discover brain representations and to decode brain activity
12:30 - 1:30		lunch in Occom Commons
1:30 - 2:30	Kriegeskorte	Representational similarity analysis of visual object population codes
2:30 - 3:30	Mitchell	What neural activity encodes about stimuli, where and when
3:30 - 4:00		coffee break
4:00 - ?		general discussion
6:30		dinner at Haxby/Gobbini home (3 North Balch St)