

How the brain represents the world: insights from the macaque face patch system

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Research on the macaque face patch system has given us a remarkable window into the processes underlying visual perception. In my talk, I will discuss what we have learned about the fundamental question “How does the brain represent the world?” by studying this system. Aspects of this question I will discuss include: the feature code used by different face patches, the way the system represents memories, and the hierarchical dynamics across the system underlying generation of conscious percepts. Taken together, these findings indicate that we must understand processing within face patches as part of a larger dynamical system underlying perception.