The Cognitive Neuroscience of Self Regulation

Welcome to the Kayser Lab website. We use functional MRI, pharmacology, EEG, and other tools in order to define (and influence) the cognitive and neural correlates of decision making.

Our work can be divided into three broad categories:

**Perceptual decision making**

Which brain networks mediate the translation from a low-level stimulus to a motor response? In this work we explore the neural mechanisms that mediate visual perceptual decisions.

**Higher order cognition**

How are more abstract decisions represented within the brain? Here we build upon research demonstrating that progressively more anterior regions within the lateral frontal cortex contain progressively more abstract representations.

**Self regulation**

How do we regulate our behavior in the face of rewards? These studies evaluate decisions made with respect to monetary rewards, often in the context of dopamine-related manipulations.

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