Multimodal neuroimaging of errors in health and neuropsychiatric disorders

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Abstract:
Error signals provide crucial information for flexible adaptation to a changing environment. Deficits in learning from errors in neuropsychiatric disorders, as indexed by abnormal neural responses and reduced behavioral adaptation, contribute to rigid, perseverative, and maladaptive behavior. My research program is using multimodal neuroimaging techniques to better understand the brain mechanisms that allow one to flexibly modify behavior in response to outcomes, to identify how these processes may go awry in schizophrenia, autism, and obsessive-compulsive disorder (OCD), and to identify genetic contributions to the neural and behavioral responses to errors.

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