Eric Yttri

Assistant Professor at Carnegie Mellon University

Pittsburgh, PA, US

Eric Yttri's research goal is to establish how neural circuits lead to these action selection decisions.

Biography

The selection of actions is central to how we interact with the world, a reality that is often not fully appreciated until this ability is lost through impairments like stroke, Parkinson's Disease and OCD. The goal of Eric Yttri's research is to establish how neural circuits lead to these action selection decisions. The vital ability to make appropriate actions requires the coordination of motor, reward and cognitive brain systems. While compelling research has been accomplished in individual brain areas, studying elements of neuronal circuits in isolation yields an incomplete and potentially misleading picture. His research approach is inclusive yet specific: interrogating the functional interactions between areas in a manner more typical of cognitive neuroscience (e.g., fMRI) while also identifying the computational contributions of individual cell types within each region. His work uses electrophysiological, behavioral and computational tools to build upon the distributed action execution model, delineating a specific role for each individual cell in the motor system.

Industry Expertise

Advanced Medical Equipment

Areas of Expertise

Motor Coordination, Cognitive Brain Function, Neural Circuits, Neuroscience

Education

Washington University
Ph.D. Neuroscience

College of William and Mary
B.S. Neuroscience