Kate Hong

Associate Professor at Carnegie Mellon University

Pittsburgh, PA, US

Kate Hong's research is in understanding the organization and function of neural circuits that underlie sensory-guided behaviors.

Biography

Kate Hong's research interests include systems neuroscience, characterization of neural circuits, diseases & disorders, sensation & perception, behavioral methods, computational, mathematical & statistical methods and physiological & anatomical methods. Her work combines animal behavior, high-speed imaging, motion tracking, in vivo electrophysiology and optogenetic methods to determine how cortical and subcortical activity cooperate to mediate (tactile) sensory-motor transformations in parallel, providing a foundation for understanding behavioral deficits and recovery mechanisms associated with cortical injury.

Areas of Expertise

Behavioral Methods, Characterization of Neural Circuits, Computational, Mathematical & Statistical Methods, Diseases & Disorders, Physiological & Anatomical Methods, Sensation & Perception, Systems Neuroscience

Education

Harvard University
Ph.D. Neurobiology

Brown University
Sc.B. Biochemistry

Accomplishments

Molecular Basis of Cognition Team Award
2022