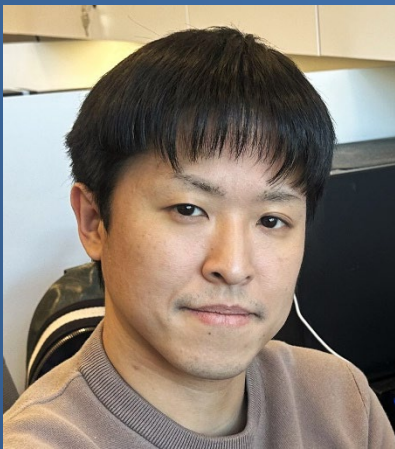


233rd WPI-IIIS Seminar

Cracking neuronal dynamics underlying complex behavior

Understanding how the brain orchestrates physiological and behavioral responses is a fundamental goal in neuroscience. Neuronal activity and synaptic plasticity are key components that dynamically adapt to internal and external stimuli, and tracking these neural dynamics with high spatiotemporal resolution is essential for uncovering the neural basis of complex behaviors. In this seminar, I will introduce two recent molecular tools designed to visualize active cell ensembles and synaptic dynamics during diverse behavioral states. I will also discuss their potential applications and future directions in advancing neurotechnological approaches for cellular and systems neuroscience.



Dr. Kenichiro Nagahama

Department of Neuroscience
Johns Hopkins University

Date: **Tuesday, July 29, 2025**

Time: **14:00 – 15:00**

Venue: **1F Auditorium, IIIS Building**

*** On-site participation only**



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