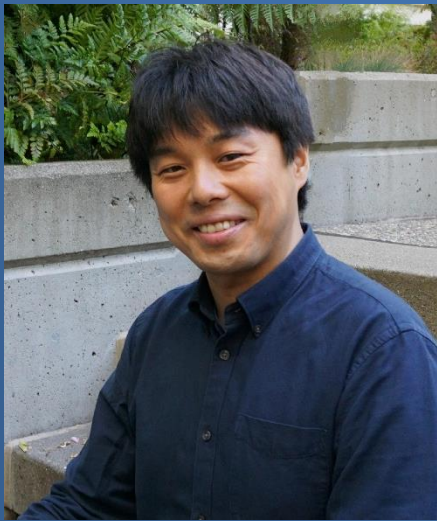


202nd WPI-IIIS Seminar

The eyes are windows into the dreaming brain

Do rapid eye movements during sleep reveal gaze shifts in the virtual world of dreams or simply reflect random brainstem activity? I harnessed the head direction (HD) system of the mouse thalamus, a neuronal population whose activity reports, in awake mice, their actual HD as they explore their environment and, in sleeping mice, their virtual HD. I discovered that the direction and amplitude of rapid eye movements during REM sleep reveal the direction and amplitude of the ongoing changes in virtual HD. Thus, rapid eye movements disclose gaze shifts in the virtual world of REM sleep, providing a window into the dreaming brain.



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Date: **Tuesday, July 30, 2024**

Time: **14:00 – 15:00**

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

*** On-site participation only**



IIIS

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