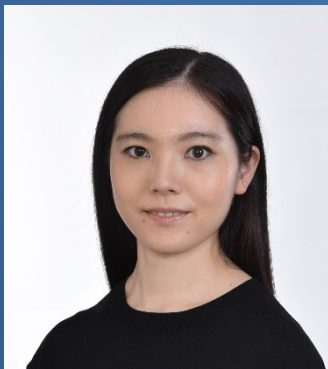


# 261<sup>st</sup> WPI-IIS Seminar

## Dendrites as Active Processors in Learning and Memory

The brain's ability to rapidly adapt to and encode the external environment is essential for survival. Memory formation has been extensively studied at the level of neural circuits, yet how individual neurons process diverse information during behavior remains poorly understood. In this seminar, I will present dendrites, elaborate branch-like structures of neurons, as active, parallel computational units and discuss how they expand the information-processing capacity of single neurons during memory formation.



### Dr. Asako Noguchi

The University of Texas Southwestern  
Medical Center

Date: **Friday, August 7, 2026**

Time: **13:00 – 14:00**

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

**\* On-site participation only**



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