



UNIVERSITY of WASHINGTON

**COMPUTATIONAL
NEUROSCIENCE
CENTER**

2023 Neural Computation and Engineering Connection Thursday, May 11, 2023

UW Gates Center for Computer Science and Engineering (CSE2)
Zillow Commons & Singh Gallery (4th floor)

- 11:00a-12:15p Poster session and lunch (provided), Singh Gallery
- 12:15p-12:30 Welcome, Zillow Commons
- 12:30-12:50pm *"The effects of visual crowding on shape processing in the macaque area V4"*
Taekjun Kim, Acting Assistant Professor, Pasupathy Lab
- 12:50-1:10pm *"Quantifying internal model learning in monkeys using a novel continuous tracking task"*
Katherine Perks, Neuroscience graduate student, Orsborn Lab
- 1:10-1:30pm *"Graph diffusion modeling to estimate neural communication with high temporal resolution"*
Felix Schwock, Electrical Engineering & Computer Science graduate student, Yazdan-Shahmorad lab
- 1:30-1:45pm Break
- 1:45-2:05pm *"Probing communication between visual and frontal areas in the awake behaving macaque"*
Erin Kempkes, Postbaccalaureate Research Scientist, Pasupathy lab
- 2:05-2:25pm *"Learning hierarchical temporal representations through dynamic predictive coding"*
Preston Jiang, Computer Science graduate student, Rao lab
- 2:25-2:45pm *"Spiral waves are coordinated topographically across cortical and subcortical brain areas"*
Zhiwen Ye, Acting Assistant Professor, Steinmetz lab
- 2:45-3:00pm Break
- 3:00-3:30pm Zaid Harchaoui, UW Statistics
- 3:30-4:30pm *"Neuroscience as the basis for human computer interaction"*
Keynote lecture: Mar Gonzalez-Franco, Google
- 4:30-4:45pm Break

*Wifi: connect to 'University of Washington' network, ID: event0425, password: tHUo-tBAu-pJEo
Visit onboard.wifi.uw.edu and follow instructions to access to 'eduroam' network*



UNIVERSITY of WASHINGTON

**COMPUTATIONAL
NEUROSCIENCE
CENTER**

4:45-5:30pm Ethics panel discussion, presented by Interactive Intelligence

2023 Neural Computation and Engineering Connection Friday, May 12, 2023

UW Husky Union Building (HUB) Room 145

- 8:30-9:00am Continental breakfast
- 9:00-10:00am *"From the wild to the lab: how house mice hunt for prey"*
Emily Jane Dennis, Janelia Research Campus
- 10:00-10:30am *"The neural basis of temperature-driven host seeking in a human-infective parasitic nematode"*
Astra Bryant, UW Physiology and Biophysics
- 10:30-10:50am Break
- 10:50-11:20am *"Moving and Grooving: A Closer Look at Multitasking Drosophilids"*
Sama Ahmed, UW Psychology
- 11:20-11:50am *"Exploring the function and therapeutic potential of hippocampal replay"*
Anna Gillespie, UW Biological Structure & Lab Medicine and Pathology
- 12:00-1:10pm Lunch (provided)
- 1:10-2:10pm *"Physical and algorithmic aspects of olfactory navigation"*
Gautam Reddy, Harvard University
- 2:10-2:50pm Industry Careers and Collaborations
Panel discussion moderated by NeuroTec
- 2:50-3:10pm Break
- 3:10-3:40pm *"Olfactory navigation and foraging"*

*Wifi: connect to 'University of Washington' network, ID: event0425, password: tHUo-tBAu-pJEo
Visit onboard.wifi.uw.edu and follow instructions to access to 'eduroam' network*



UNIVERSITY of WASHINGTON

**COMPUTATIONAL
NEUROSCIENCE
CENTER**

Cindy Poo, Allen Institute for Brain Science

3:40-4:40pm

"Low Dimensional Manifolds for Neural Dynamics"

Sara A Solla, Northwestern University

4:45-6:00pm

Reception