

SEMINAR



Dr. Hari Shroff
HHMI Janelia Research Campus



Date: 3 April 2024

Time: 2:45 PM

Seminar room: OIST Center Building C210

Multiscale biological imaging at high spatiotemporal resolution

I will survey key technologies developed in my lab, with an emphasis on microscopes well-suited for studying 4D cellular physiology. Advances in light-sheet and structured illumination microscopy will be presented, including a recent multi-view confocal system that enables super-resolution imaging in tissue. I will also discuss deep learning methods for further enhancing contrast, resolution, and experiment duration. Finally, I will discuss application of these methods to mapping nuclear positions in post-twitching embryonic *C. elegans* and combining this positional information with gene expression derived from single cell RNA seq experiments.

Hosted by:



Shinya Komoto
Imaging Core Facility
OIST



Prof. Naoto Ueno
Advanced Bioimaging
Support (ABiS)