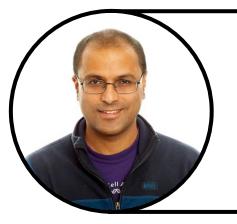


## **SEMINAR**



**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 posttwitching embryonic C. elegans and combining this positional information with gene expression derived from single cell RNA seq experiments.



**Shinya Komoto** *Imaging Core Facility* OIST

## Hosted by:



**Prof. Naoto Ueno** Advanced Bioimaging Support (ABiS)