



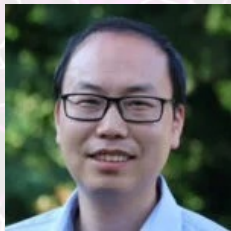
Discover Graduate Research Opportunities in

Quantitative Biology, Membrane Biophysics, Imaging Life Across Scales, and more

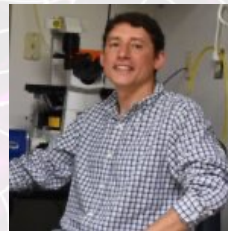
Our Mission

CMCP brings together interdisciplinary scientists to uncover the physical and chemical principles governing membranes, proteins, and cellular organization and signaling. We integrate biophysics, advanced imaging, structural biology, molecular engineering, and quantitative analysis to address fundamental and translational biomedical questions.

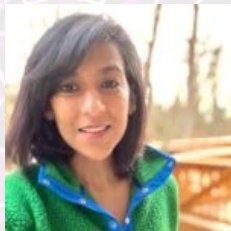
Resident Laboratories & Research Areas



Ai Lab – Protein engineering for imaging & health; biosensors, fluorescence and bioluminescent imaging, synthetic biology



Levental Lab – Cellular physiology regulation by membrane composition and dietary lipids; lipid biophysics, lipidomics, quantitative imaging



Ebrahim Lab – Cytoskeletal dynamics and mechanobiology; live-cell super-resolution and intravital microscopy



Redemann Lab – Mitotic spindle mechanics and chromosome segregation; live-cell fluorescence microscopy, electron tomography



Gan Lab – 3D-chromatin architecture and gene regulation; cryo-CLEM and cryo-tomography



Tamm Lab – Membrane fusion in viral entry, neurotransmitter release, and insulin secretion; structural biophysics, reconstituted membrane systems, advanced microscopy



Kenworthy Lab – Membrane architecture and function, membrane remodeling proteins; quantitative fluorescence microscopy

CMCP researchers integrate advanced imaging across scales—from molecular assemblies to whole cells and tissues—with quantitative biophysics and molecular engineering to understand how cells sense, organize, and respond to their environment, and how failures in these processes drive disease.

Why Join CMCP?

Interdisciplinary PhD training environment

Access to state-of-the-art microscopy & structural biology facilities

Collaborative culture across labs, departments and schools

Research with broad impact in fundamental science and human disease

Develop and apply innovative technologies to drive discovery across disciplines