



NEW LAB CURRENTLY RECRUITING POSTDOCS!

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MULTICOLOR AND TIME-RESOLVED ELECTRON MICROSCOPY OF CELL SIGNALING

Keywords: biophysics, single-molecule fluorescence, single-particle electron microscopy, cathodoluminescence, inorganic nanoparticles for biology, cryo-vitrification, time-resolved imaging, GPCRs, neuroscience, cell signaling

Electron microscopy is an ideal imaging technique to study biological cells at the nanoscale. However, typically electron microscopy only provides static black-and-white images. In an effort to enable **multicolor and time-resolved electron microscopy**, my lab will develop dedicated molecular probes and instrumentation for new correlative light and electron microscopy modalities, and build next-generation biophysical tools for time-resolved cryo-vitrification and high-resolution imaging of cells. These methods will be used to elucidate the nanoscale protein and membrane dynamics of G protein-coupled receptor (GPCR) signaling in differentiated cells and complex tissues.

CURRENTLY RECRUITING Postdocs interested in the following research areas:

- 1) Instrumentation development for single-particle fluorescence and electron imaging
- 2) Synthesis, functionalization, and biological applications of nanoparticles
- 3) Cell biology of GPCR signaling and of neuronal transmission

If you are interested in joining or have other questions, please send an e-mail to **maxim_prigozhin@harvard.edu**. To apply, briefly describe your research experience, scientific interests, and career goals, attach your CV, and provide contact information for three references.