



Postdoctoral Associate Nanoscale Pathobiology

Zhao Biophotonics lab, Carnegie Mellon University

I seek a Postdoctoral Associate to refine and validate a newly developed imaging approach for nanoscale, multiplex *in situ* imaging of proteins, nucleic acids and other biomolecules, and to apply the approach to interrogate nanoscale organization of pathogen biomolecules and their interactions in biofilm formation and infection. This project will build upon my collaborations with world-class microbiologists and infectious disease experts, and will extend the Expansion Microscopy methods I recently developed as a postdoctoral researcher.

About the lab: I am a new Assistant Professor of Biological Sciences at CMU, and I am excited to implement and extend the new imaging technologies I developed during my postdoctoral training with Ed Boyden at MIT. My overall goal is to apply chemistry, molecular biology and other bioengineering approaches to invent new imaging techniques that transform the way researchers interrogate cellular structure, function and disease. I am looking for people who are excited about science and want to move the needle!

Strong applicants will have some expertise in fluorescent imaging, microbiology, RNA biochemistry, computational image analysis, or infectious diseases. A Ph.D. degree in a STEM field is required. The salary is competitive and commensurate with experience.

Apply by email to Dr. Yongxin (Leon) Zhao (yongxinz@andrew.cmu.edu) with:

1. a cover letter that describes your past and current projects, career goals, and your immediate goals for this postdoctoral position;
2. an up to date CV;
3. names, emails and phone numbers of three references.

Representative publications:

Zhao, Y. et al. 'Nanoscale imaging of clinical specimens using pathology-optimized expansion microscopy.' *Nature Biotechnology*, 2017, 35 (8), 757–764.

Carnegie Mellon University is an equal opportunity employer and is committed to increasing the diversity of its community on a range of intellectual and cultural dimensions. Carnegie Mellon welcomes applicants who will contribute to this diversity through their research, teaching and service, including women, members of minority groups, protected veterans, individuals with disabilities, and others who would contribute in unique ways.