Postdoctoral Scholar – AI and Computational Pathology for Precision Oncology

The Integrative Imaging and Molecular Diagnostics Lab at Stanford University School of Medicine is looking for a highly motivated postdoctoral scholar. Major focus of the Lab is to develop AI and machine learning approach for the diagnosis, prediction of treatment response and prognosis for precision cancer medicine. Recent work from the lab has been published in high-impact journals such as Nature Machine Intelligence, Nature Communications, JAMA Oncology, Lancet Digital Health, Annals of Oncology, Annals of Surgery, Clinical Cancer Research, Radiology, etc. The lab is funded by 3 active NIH R01 grants. For more information, please visit http://med.stanford.edu/lilab

The project involves the development of machine learning and deep learning approaches for single-cell analysis of histopathology images, including routine H&E, immunohistochemistry, and multiplex immunofluorescence imaging. This information will be integrated with genomics and transcriptomics data to predict immunotherapy response and outcomes. We work with a multidisciplinary expert team of surgeons, pathologists, and oncologists.

Candidates from a diverse background are encouraged to apply. The applicant may hold a PhD either in physical sciences/engineering with a strong interest in translational research and motivation to solve biomedical problems, or a PhD in biomedical sciences with a strong interest to apply AI and machine learning approaches. The ideal candidates will have strong analytic and computational skills, as well as prior experience in pathology image analysis.

Postdocs and students in the lab have gone on to establish their own independent labs in academia. Recent lab trainees have secured tenure-track faculty positions in premier institutions such as the UT MD Anderson Cancer Center and Shanghai Jiaotong University in China. Major awards to postdocs include ASTRO Clinical/Basic Science Research Award, Basic/Translational Science Award, and the prestigious NIH K99/R00 Pathway to Independence Award.

Stanford University is located at the heart of Silicon Valley, epicenter of the technology revolution in biomedicine. This is an excellent opportunity not only for those motivated to pursue an academic career, but also for those interested in entrepreneurship with the goal of commercialization and translation of new technology into clinical practice.

Interested applicants should send a research statement, CV, and names of three references to: Ruijiang Li, PhD.