

# Post-doctoral Research Fellows in Computational Genomics and Precision Health University of California, San Francisco

Principal Investigator: Jingjing Li, PhD



## Affiliations:

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<https://www.complexdisease.org>

Complex human diseases result from a composite effect of personal genome baselines and individual lifestyles. Our research is to build quantitative models for large-scale disease genome analysis, integrating single-cell multi-omics profiling techniques, patient electronic health record (EHR) analysis, and longitudinal physiological profiling using emerging technologies (e.g. portable biosensors and imaging techniques). This practice will facilitate the development of personalized health management tools to achieve the ultimate goal of precision health: predict, prevent and cure, precisely.

We are particularly interested in neurological diseases, cardiovascular diseases, neonatal conditions, cancer immunotherapy as well as fundamental problems in genome sciences, from epigenomics, RNA biology, proteomics to biological networks.

The candidates are expected to have a strong background in genomics and have training in machine learning algorithms (deep learning and Bayesian probabilistic learning), statistics, and genetics. The candidates are expected to have hands-on experience in analyzing high-throughput sequencing data (e.g. GATK variant call and RNA-seq analysis), and/or in single-cell ATAC/RNA-seq workflow. Individuals with additional experience in wet lab experiments are welcome.

The candidates will be exposed to a highly collaborative and vibrant research environment. The individuals will have the opportunity to work closely with leading scientists, clinicians and trainees in both UCSF and Stanford University (e.g. many collaborative projects with Stanford Genome Center, as well as with the March of Dimes Center at Stanford Pediatrics). To apply, please send a single email containing your CV, a short statement describing your qualifications for this position, and contact information for three references to Dr. Jingjing Li at [Jingjing.Li@ucsf.edu](mailto:Jingjing.Li@ucsf.edu)