

Position Title: Postdoctoral Fellow in Bioinformatics at University of Pennsylvania

Company Information: The University of Pennsylvania, the largest private employer in Philadelphia, is a world-renowned leader in education, research, and innovation. This historic, Ivy League school consistently ranks among the top 10 universities in the annual U.S. News & World Report survey. Penn has 12 highly-regarded schools that provide opportunities for undergraduate, graduate and continuing education, all influenced by Penn's distinctive interdisciplinary approach to scholarship and learning.

Penn offers a unique working environment within the city of Philadelphia. The University is situated on a beautiful urban campus, with easy access to a range of educational, cultural, and recreational activities. With its historical significance and landmarks, lively cultural offerings, and wide variety of atmospheres, Philadelphia is the perfect place to call home for work and play.

Duties & Responsibilities: The Department of Biostatistics, Epidemiology and Informatics at the University of Pennsylvania Perelman School of Medicine invites applications for multiple post-doctoral fellow positions in Dr. Qi Long's research group (<https://www.med.upenn.edu/long-lab/>) with a starting date in 2021. The positions are open until filled and the appointment is for two years, with a possible extension for a third year.

These positions will offer opportunities to develop and/or apply advanced bioinformatics and machine learning (including deep learning) methods for analysis of multi-omics data in complex diseases such as Alzheimer's disease (AD) and cancer. The following research areas are of particular interest: 1) Integrative analysis of multi-omics data and imaging data for prediction of disease risk, prognosis and progression, identification of disease subtypes and identification of potential therapeutic targets etc. for Alzheimer's disease; 2) integrative analysis of (multi)-omics data for predicting adaptive response, primary and acquired resistance to cancer immunotherapies; 3) integrative analysis of (multi)-omics data for neoantigen/neoepitope prediction; and 4) analysis of single cell RNA-seq data in cancer research.

These positions are expected to develop independence in research through activities including, but not limited to, writing peer-reviewed publications for research conferences and journals, giving presentations at research conferences, collaborating with biomedical researchers, and assisting in grant proposal development. There will be opportunities for the successful candidate(s) to be co-mentored by Dr. Long's collaborators in informatics and computer science and in relevant biomedical research areas. Collaborations with other members in Dr. Long's group are encouraged.

The starting date is negotiable. If desired, the successful candidate(s) can start immediately.

We seek candidates who embrace and reflect diversity in the broadest sense. The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Position Qualifications: Ph.D. degree in biostatistics, bioinformatics, computational biology, or related quantitative fields. The following skills are desirable but not all of them are required: excellent programming skills in R/Matlab/Python; experience and expertise in deep learning; excellent writing and oral communication skills.

Benefits: <https://www.med.upenn.edu/postdoc/>

Application Instructions: Applicants should email a cover letter, research statement, CV, and contact information (email and phone) for three references to Dr. Qi Long, qlong@upenn.edu (Subject line: Bioinformatics Postdoc, 2021 Spring).