University of Pennsylvania, Perelman School of Medicine, Division of Biostatistics: Postdoctoral Fellow

The Division of Biostatistics at the Perelman School of Medicine, University of Pennsylvania invites applications for multiple post-doctoral fellow positions in Dr. Qi Long's research group (www.med.upenn.edu/long-lab) with a starting date in 2019. 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 statistical and machine, bioinformatics, and data mining methods for analysis of big biomedical data, such as electronic health records (EHRs) data and omics data (including gene expression data, SNP data, and metabolomics data etc.). The following two research areas are of particular interest: 1) distributed analysis methods; and 2) integrative analysis of multi-omics data and/or EHRs data for deep phenotyping, prediction of disease risk, prognosis and progression, and identification of disease subtypes etc. One specific example is integrative analysis of multi-omics data for advancing cancer immunotherapies including a) uncovering molecular signatures of adaptive response, and primary and acquired resistance to checkpoint inhibitors, and b) predicting neo-epitope for developing personalized cancer vaccine.

The successful candidate(s) are expected to develop independence in methodological research through activities such as writing peer-reviewed publications for research conferences and journals and giving presentations, and learn developing grant applications. Extensive interactions with graduate students and other postdocs are expected. In addition, the successful candidate(s) will have opportunities to conduct collaborative research in areas such as cancer.

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, statistics, computer science, informatics or related quantitative fields. The following skills are desirable but not all of them are required: excellent methodological training in statistics; excellent programming skills in R/Matlab/Python and possibly one lower level computer language such as C/C++; excellent writing and oral communication skills. Expertise and experience in the following areas are considered a plus: deep learning; distributed learning and optimization.

Benefits: 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: Long postdoc, 2019 Spring).