Company Information: The University of Pennsylvania 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. Additionally, the Perelman School of Medicine ranked 3rd among the best medical schools in the United States in 2016, the 19th year in a row that it has been ranked among the top five medical schools. 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.

Position Title: Postdoctoral Fellow

Duties & Responsibilities: The Division of Biostatistics at the Perelman School of Medicine, University of Pennsylvania invites applications for up to 2 post-doctoral fellow positions in Dr. Qi Long’s research group (www.med.upenn.edu/long-lab) with a starting date in 2018. 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 methods for analysis of big biomedical data, with applications to electronic health records (EHRs) data, omics data (including gene expression data, SNP data, and metabolomics data etc.), and mobile health data. The following two research areas are of particular interest: 1) distributed analysis methods for big data; and 2) deep learning methods for analysis of big biomedical data, e.g., analysis of EHRs data for deep phenotyping, prediction of disease risk, prognosis and progression, and identification of disease subtypes etc. In addition, postdocs who are interested in the theoretical foundations of both directions will have the opportunity to work under the joint supervision of Dr. Qi Long and Dr. Weijie Su in the Department of Statistics at the University of Pennsylvania (stat.wharton.upenn.edu/~suw). For example, developing statistical methods with theoretical guarantee for distributed data analysis.

The successful candidate(s) will develop independence in research through given presentations and writing peer-reviewed publications for research conferences and journals, and develop 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 and cardiovascular diseases.

The starting date is negotiable and 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, or related quantitative fields. The following skills are desirable: excellent methodological training in statistics; excellent programming skills in R/Matlab/Python and possibly one lower level computer language such as C/C++; excellent written 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@pennmedicine.upenn.edu (Subject line: Long postdoc, 2018 Spring).