

Post-Doctoral Position

University of Pennsylvania – Perelman School of Medicine

The Voight lab invites applications for a computational Post-Doctoral position at the University of Pennsylvania School of Medicine, within the Department of Systems Pharmacology and Translational Therapeutics and the Department of Genetics. The lab focuses on translating discoveries from human genetics data into insights about the biological basis and genetic architecture of human disease (ultimately toward developing new therapeutics targets for human disease), and understanding selection during recent human evolution.

Objectives:

The candidate will have the opportunity to work with large collections of human genetic data sets, many of which are paired with a range of metabolic, cardiovascular, and autoimmune related traits. The applicant will focus their efforts on the analysis and methodological development driving by these data, contributing to gene-mapping activities, population genetics analyses, and bioinformatics approaches to extract biological insights from these data. For medical genetics projects, the applicant also will work to develop approaches that translate these insights into actionable information in clinical and bench-lab experimental settings. Further, the applicant will also contribute to informatics and computational approaches that integrate biological information sources (e.g., CHIP-Seq, RNA-seq and gene-expression data, protein-protein networks, etc.) with genetic data.

Qualifications:

1. The candidate will have a MD, PhD, or equivalent doctorate, with a strong background in one or more of the following areas: statistics, biostatistics, population genetics, human genetics, genetic epidemiology, computational biology and/or genomics, bioinformatics.
2. The ideal candidate will have a track record of scientific productivity and leadership.
3. The ideal candidate will demonstrate a working proficiency in programming, scripting, and statistical computing (i.e., C/C++, Python, PERL, R, etc.), will have experience handling large data sets in the UNIX/LINUX operating environment, experience in high-performance cluster computing.
4. Applicants with prior experience in projects and data related to next-generation sequencing, or with prior experience studying metabolic disorder, cardiovascular disease, and/or autoimmune disease will have a strong advantage.

Application Instructions:

To apply, please send (i) a cover letter that includes the names and contacts for three references and a short statement of research interests, and (ii) a current CV to: Benjamin Voight, PhD (bvoight@upenn.edu). Further information about the lab can be found at: <http://coruscant.itmat.upenn.edu>