THE UNIVERSITY OF CHICAGO

Postdoctoral Scholar in Computational Neurogenomics

We are seeking a postdoctoral scholar to work at the interface of computational biology and neurogenomics. This is a joint position co-mentored by Dr. Jingshu Wang (Department of Statistics) and Dr. Xiaochang Zhang (Department of Human Genetics & Neuroscience Institute) at the University of Chicago.

Our research aims to understand gene regulation and mRNA processing in brain development and disease using cutting-edge genomic technologies and computational approaches.

Ongoing projects include single-cell RNA sequencing, alternative polyadenylation (APA), long-read transcriptomics, and computational analysis of single-cell CRISPR perturbation data. The successful candidate will integrate large-scale transcriptomic datasets to study isoform-level and cell-type-specific regulatory mechanisms in neural systems. The research direction can be tailored within the broad areas of neurogenomics and computational biology.

Qualifications

We welcome applicants with backgrounds in functional genomics, computational biology, statistics, biostatistics, or related fields. Applicants should have:

- Recent PhD or MD/PhD within 1 year after graduation
- Experience analyzing genomic or transcriptomic data
- Strong programming skills (e.g., R, Python)
- A genuine interest in gene regulation and biological discovery

The position offers a highly interdisciplinary research environment spanning neurogenomics, RNA biology, and quantitative biology. The University of Chicago provides outstanding genomic and computational infrastructures and fosters close collaboration across genetics, neuroscience, and quantitative sciences.

Interested candidates please send a pdf file including the following to Dr. Zhang (xczhang@uchicago.edu) and Dr. Wang (jingshuw@uchicago.edu):

- A summary of present and future research interests.
- CV with a list of publications.
- Contact information for two or three references.