

## **Postdoc position in Computational Genetics at Johns Hopkins**

A postdoc position is now available to work with Dr. Shizhong Han, Associate Professor, in the Department of Psychiatry and Behavioral Sciences at Johns Hopkins.

Research in Dr. Han's lab has been focused on investigating the genetic basis of psychiatric disorders. Another research focus is on developing statistical genetic approaches and computational tools that will facilitate the effort to identify disease susceptibility genes more broadly.

The candidate is expected to work with Dr. Han to develop and apply machine learning and network-based approaches to risk gene identification, disease risk prediction, and drug discovery for psychiatric disorders. Research projects will include: 1) integration of multi-omics datasets including GWAS, RNA-Seq and Chip-Seq to identify genes and noncoding variants underlying alcoholism; 2) biomarker discovery for treatment response of opioid addiction; 3) machine learning approach to drug repurposing for psychiatric disorders. Candidates with a doctoral degree in human genetics, bioinformatics, or other fields with strong quantitative skills (e.g., biostatistics, statistics, or computer science) will be considered.

Strong programming skills in Perl/Python and R are essential. Experiences with large-scale genetic or genomic datasets are necessary. Experiences with network-based approach or machine learning are a plus. The candidates need to be highly motivated, excellent in academic writing, and able to work well in a collaborative environment.

The successful candidate will receive intensive training on projects tailored to his/her research interests and experiences. The successful candidate will be encouraged to present research work in national and international meetings, and be supported for professional development.

Interested applicants should send curriculum vitae, statement of research interests, and contact information for three references to Shizhong Han at: shan67[at]jhmi[dot]edu.