Postdoctoral Positions in Computational Genetics and Genomics: Genetics and Genomics of Sex Differences in Cancer

Dr. Barbara E. Stranger

Join the Stranger Lab, in the Center for Genetic Medicine, an innovative research institute at Northwestern University Feinberg School of Medicine, one of the nation's leading academic medical institutions, dedicated to improving our understanding of fundamental genetic mechanisms and the genetic basis of human disease.

Scientists in the Stranger Lab work at the intersection of cutting-edge human genetics, bioinformatics, statistical approaches to analysis of multidimensional data, and computer science. We work with diverse types of biomedical genetics and genomics data to generate new knowledge of genome function and the genetic basis of complex phenotypes.

We are hiring multiple motivated researchers to join our team as Postdoctoral Scholars to work on NIH-funded research in Cancer Genomics. The focus of the research is to understand the role of sex differences in the genetics and genomics of cancer biology, heritable cancer risk, and response to therapeutics. The project is highly interdisciplinary, and will involve analysis of GWAS data, genomics data, experimental data, and additional relevant -omics data as they become available.

The successful candidates will join a multidisciplinary and collaborative team investigating biological questions ranging from basic human genome science to disease genetics and genomics. We are part of the Robert H. Lurie Comprehensive Cancer Center at Northwestern University as well as the ENCODE, GTEx, and disease Consortia, creating excellent opportunities for training and networking. We collaborate closely on this project with Dr. Stephanie Huang at University of Minnesota, Drs. Lin Chen, Lixing Yang, and Robert Grossman at the University of Chicago, and Dr. Kevin White at Tempus Labs. The positions have a unique opportunity for academic/industry training and experience through Northwestern and Tempus.

Preferred Qualifications

- PhD in a quantitative discipline such as Genetic Statistical Genetics, Bioinformatics, Computer Science, or Statistics, preferably less than 3 years out from the PhD
- First-author publication track-record
- Experience analyzing large biological datasets, including principled application of statistical techniques
- Expertise in Linux and high performance computing environments
- Software skills: programming e.g. python, expertise with documentation, version control, and code releases
- Experience with NGS data analyses
- Experience with the standard suite of bioinformatics tools (R, aligners, callers, imputation, phasing, etc.)
- Desire and ability to learn quickly, think creatively, and apply and design new analytic approaches
- Desire and ability to work both collaboratively and independently

For more information or to apply, please email barbara.stranger@northwestern.edu. To apply, please send your CV, names and contact details for three references, and a cover letter highlighting your research interests, qualifications, and long-term career goals. Please include “Postdoctoral positions regulatory genomics and disease” in the subject line.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.