

# Postdoctoral Positions in Computational Genetics and Genomics: human genome regulation and disease

Dr. Barbara E. Stranger

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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 **regulatory genomics and disease genetics**. We have openings to work on projects investigating neuropsychiatric disorders, cardiac phenotypes, complications of diabetes, cancer, and the immune system. Many projects have components assessing the role of sex in complex human phenotypes. Our work is highly interdisciplinary, spanning statistical genetics, systems biology, genomics, bioinformatics, data integration, and data science and visualization. Our funded projects include analysis of GWAS data, sequencing data, diverse genomics data types, and biobank data.

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 members of ENCODE, GTEx, and disease Consortia, creating excellent opportunities for training and networking.

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## 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
- Exposure to Linux and high performance computing environments
- Software skills: experience with programming e.g. python, expertise with documentation, version control
- 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

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For more information or to apply, please email [barbara.stranger@northwestern.edu](mailto: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.

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