

# Postdoctoral Scholars, Computational Genetics and Genomics: genome regulation and disease

Dr. Barbara Stranger

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The Center for Genetic Medicine is a research center 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.

Our work centers around the integration of diverse types of biomedical research and patient data. Our team of scientists work at intersection of cutting-edge genetics, bioinformatics, statistical approaches and computer science.

We are looking for multiple motivated researchers to join our team to work on NIH-funded research in **regulatory genomics and human disease genetics**. Our work is highly interdisciplinary, spanning statistical genetics, systems biology, genomics, bioinformatics, data integration, software engineering, and data visualization. The projects will include analysis of GWAS data, sequencing data, genomics data, experimental data, and biobank data. The successful candidate(s) will be part of a multidisciplinary team working on a variety of 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. Phenotypes we are working on include neuropsychiatric disorders, autoimmune disease, cardiac phenotypes, and cancer. Many projects have components assessing the role of sex in complex traits.

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## Qualifications

- PhD in a quantitative discipline such as 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
- Programming skills in python
- Experience with the standard suite of bioinformatics tools (R, imputation, phasing, etc.)
- Strong scientific writing skills
- Ability to learn quickly and apply new analytic techniques

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**For more information**, please email Dr. Barbara Stranger: [barbara.stranger@northwestern.edu](mailto:barbara.stranger@northwestern.edu). To apply, please send an email to [barbara.stranger@northwestern.edu](mailto:barbara.stranger@northwestern.edu) with 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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