



January 7, 2019

Applications are invited for a postdoctoral fellow position studying the genomic basis of variation in human complex traits.

The postdoc will join a research group led by Rajiv McCoy in the Department of Biology at Johns Hopkins University. Our lab develops computational and statistical methods to investigate the functional and fitness effects of human genetic variation. We are also interested in the evolutionary mechanisms by which such variation persists in nature. Within this scope, specific research topics include the study of aneuploidy, the leading cause of pregnancy loss. This includes research into the origins and phenotypic consequences of mosaic aneuploidy and structural variation—a potential hidden source of human phenotypic diversity. A second research direction focuses on the functional genomic basis of phenotypic divergence. Past and ongoing work uses introgression among archaic (Neandertal and Denisovan) and modern humans as a model to study this evolutionary process.

The postdoc will be supported in developing new research directions broadly consistent with these themes. In addition to research, opportunities are available to gain experience in teaching and mentoring. The postdoc will also receive guidance and support for career development, tailored to long-term goals.

Johns Hopkins offers an exceptional environment for research and training in computational and statistical genomics, with strong interaction among genomics research groups across departments, academic divisions, and nearby institutions. The Department of Biology further hosts cutting-edge research in molecular biology, cell biology, developmental biology, and biophysics, providing many opportunities for collaboration.

Qualifications:

- Ph.D. in genomics, computer science, or a related quantitative field
- Experience in computational and statistical analysis of large datasets
- Strong record of research productivity, including publication
- Demonstrated proficiency in scientific writing and communication

Application materials:

- CV, which may list preprints
- Description of past and future research interests
- Contact information for three references, upon request

Johns Hopkins University is committed to active recruitment of a diverse faculty and student body. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members. Consistent with the University's goals of achieving excellence in all areas, we will assess the comprehensive qualifications of each applicant.

The position is open immediately until filled, though the start date is flexible. Applications, questions, and informal inquiries are welcome and should be directed to Rajiv McCoy <rajiv.mccoy@jhu.edu>.

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