

Position Title: Postdoctoral Research Scientist in Biostatistics/Biomedical Data Science

Summary: The research group led by Dr. Zihuai He (<https://profiles.stanford.edu/zihuai-he>) in the Department of Neurology & Center for Biomedical Informatics Research at Stanford University has up to three postdoctoral positions available for candidates with prior training in statistics, biostatistics, computer science, bioinformatics or a closely related area.

Our group focuses on integrative analysis of -omics data, with the aim of developing novel statistical and computational methodologies for the identification and interpretation of complex biological pathways involved in human diseases. Our ongoing methodological research focuses on the analysis of high-throughput genetic and functional genomics data.

The successful candidates will work with Dr. Zihuai He to develop novel statistical and computational methods, in collaboration with Dr. Hua Tang (<https://profiles.stanford.edu/hua-tang>), Dr. Michael Greicius (<https://profiles.stanford.edu/michael-greicius>) and Dr. Stephen Montgomery (<https://profiles.stanford.edu/stephen-montgomery>). The methods will be motivated by integrative analysis of Alzheimer's disease genetics, combining large-scale data from whole-genome sequencing, epigenetic and imaging technologies. Specific areas of interest include, but not limited to, 1) predicting functional consequences and clinical relevance of genetic variation; 2) association mapping aggregating whole-genome sequencing, functional genomics and imaging data; 3) integrative analysis of multi-ethnic sequencing studies. They will have opportunities to join collaborative research projects within Stanford as well as external collaborations. They will also be encouraged to develop and pursue their own lines of inquiry.

Dr. Zihuai He is a dedicated mentor with particular interest in helping young scientists build their careers in academia, industry, and beyond. Our group is well-suited to young scientists who are interested in the development of modern statistical and computational methods and/or learn how to better apply their skills toward the alleviation of human disease.

Required Qualifications:

- We are interested in talented and committed individuals who think creatively, work collaboratively, and have a good publication record.
- Completed (or nearly completed) a PhD in Statistics, Biostatistics, Computer Science, Bioinformatics, or a closely related area prior to their appointment.
- Expertise in statistical/computational genetics/genomics is preferred, but not required.

Required Application Materials:

1. Cover letter that briefly describes your career goals, research interests, and past accomplishments. A description of potential project(s) of interest in our lab is recommended.
2. Curriculum vitae
3. Contact information for 3 professional references.
4. Your most recent or relevant publications.

Please email application to Dr. Zihuai He (zihuai@stanford.edu). Applications will be reviewed immediately after submission.

Stanford is an equal opportunity employer and all qualified applicants will receive consideration without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, veteran status, or any other characteristic protected by law.