Postdoctoral research scientist in Biostatistics and Computational genomics

We are seeking **highly motivated postdoctoral candidates in biostatistics and computational genomics** at Columbia University Irving Medical Center. Successful candidates will be jointly advised by Drs. Zhonghua Liu (Assistant Professor in Biostatistics) and Gao Wang (Assistant Professor of Neurological Sciences in Neurology), and work closely with other quantitative students and postdocs in our groups on research topics at the interface of statistics, machine learning, and multi-omics data science. The candidates will lead statistical method development on scalable causal mediation analysis and Mendelian randomization methods for multi-omics data to understand putative causal mechanisms of complex human diseases. A vast resource of multi-omics data of human brains is available to support statistical inference of the possible molecular mechanisms leading to the pathology of neurodegenerative disorders, such as Alzheimer's disease and multiple sclerosis.

Successful candidates should have strong backgrounds in quantitative research fields, with a doctoral degree in statistics, biostatistics, computer science, bioinformatics or other quantitative fields. Proficiency in statistical computing with R and/or Python programming languages is required. Preference will be given to candidates with practical experience working with large-scale genomics or multi-omics data-sets.

Our groups enjoy a dynamic and stimulating research and educational environment between Columbia University Vaglos College of Physicians and Surgeons and Mailman School of Public Health, both located on West 168th street in Manhattan. We work with other interdisciplinary groups from across the United States on a diverse range of multi-omics data-driven topics that motivate the development of novel statistical methodology. The candidates will thus benefit tremendously from learning and collaborating with other scientists. More details of our groups can be found at `https://wanggroup.org` and `https://sites.google.com/view/drliu`.

To apply, please email a cover letter, a curriculum vitae and contact information of up to four references to Zhonghua Liu (zl2509@cumc.columbia.edu) and Gao Wang (wang.gao@columbia.edu), under the subject header "biostatistics postdoc application". The positions are open until filled and applications will be reviewed on a rolling basis.