Post-doctoral Associate in Statistical Genetics/Omics and Deep Learning in the Division of Biostatistics, University of Minnesota

Two post-doc positions are available now (until filled) in the Division of Biostatistics at the University of Minnesota, Minneapolis, MN, USA. For more info, visit
http://www.sph.umn.edu/academics/divisions/biostatistics/

The post-doc will work with Dr. Wei Pan (https://directory.sph.umn.edu/bio/sph-a-z/wei-pan or http://www.biostat.umn.edu/~weip/), Dr. Xiaotong Shen (http://users.stat.umn.edu/~xshen/) and other collaborators in the University of Minnesota. The research will focus on applying, developing and implementing novel statistical methods for causal and integrative deep learning with GWAS/sequencing data and multiple types of omic/neuroimaging data, as in TWAS and IWAS. In addition to new methods development and evaluations, the job responsibilities include software development (mostly in R, or in Python/TensorFlow/Keras/PyTorch for deep learning), possibly theory development, simulation studies, real data analysis, and writing manuscripts.

The annually renewable appointment is for 1-2 years, possibly extendable to year 3, conditional on satisfactory performance and funding availability.

Qualifications:
A PhD degree in Biostatistics, Statistics, Computer Science or a related field, strong computing/programming and communication skills, and strong interest in statistical genetics/genomics and/or Big Data/deep learning are required. Experience in statistical genetics and/or Big Data/deep learning is preferred.

Deadline: Each position is immediately open until filled or by 10/1/2021.

Inquiries are welcome and should be directed (preferably along with CV) to Dr. Wei Pan by email at
panxx014@umn.edu