



Postdoc position in robust neuroimaging inference procedures

Simon Vandekar is recruiting a postdoc position in the Department of Biostatistics at Vanderbilt University. Vanderbilt is located in Nashville (“Music City”), TN; a vibrant and growing city. The postdoc will work as part of an interdisciplinary team to develop new statistical methods to study phenotypic associations with neuroimaging data. The project places significant emphasis on developing statistical with rapid integration of software into the parametric bootstrap joint (PBJ) inference R package, available on Neuroconductor. The postdoc will work in collaboration with top researchers in psychiatric neuroimaging to understand the underpinnings of psychosis.

The postdoc will develop and evaluate statistical methods for high-dimensional data that utilized robust “sandwich” covariance estimators. The methods will be evaluated using high-dimensional simulations utilizing parallel computing and rapidly integrated into software. The postdoc will lead publications in statistics and neuroimaging methods journals.

A doctoral degree in biostatistics or statistics and expertise in data science or applied statistics are required. Strong statistical methods development experience (robust covariance estimation; inference evaluation), and exceptional programming skills (R, github) are highly preferred. Experience with neuroimaging data is helpful, but not required.

For inquiries please contact Simon Vandekar (simon.vandekar@vumc.org) with a cover letter and CV.

