Postdoctoral Research Fellow

Description:
This is a two-year postdoctoral position developing statistical methods for finding patterns in complex biomedical data, working with Jeff Miller in the Department of Biostatistics at the Harvard T.H. Chan School of Public Health. The primary focus is on methods for noninvasive cancer detection using high-dimensional genomics data from blood samples (liquid biopsies). Models and methods of interest include hierarchical regression models, latent factorization models, nonparametric Bayesian models, models for sequential data, mixture models, machine learning algorithms, and robustness to model misspecification. This postdoctoral position will involve working with Dr. Miller and collaborators to develop statistical methods and software tools for accurate and noninvasive early cancer screening with liquid biopsies.

Qualifications:

Doctoral degree in Statistics, Biostatistics, Computer Science, Applied Math, or a related field. Advanced expertise in Bayesian statistics and machine learning is essential. Strong programming skills are required (e.g., in Julia, Python, R, C++). Experience with genomics data is a plus.

Primary author on at least one publication in a leading peer-reviewed journal.

Application Procedures:
To apply for this position, submit your application through the Harvard ARleS: Academic Recruiting Information eSystem at the following link:

https://academicpositions.harvard.edu/postings/9756

Additional Information:
Harvard University seeks to find, develop, promote, and retain the world’s best scholars. Harvard is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are strongly encouraged.

Information on resources for career development and work/life balance at SPH can be found at: Career development and work/life balance.