Johns Hopkins University, Departments of Computer Science and Biostatistics: postdoctoral position

The Departments of Computer Science and Biostatistics at Johns Hopkins University invite applications for a joint Postdoctoral Researcher position to work on estimating the health impact of new decision support tools in a hospital setting, based on data from electronic health records.

The position will involve close scientific collaboration with Drs. Suchi Saria (Computer Science) and Michael Rosenblum (Biostatistics). There will also be ample opportunities to interact with the Johns Hopkins Causal Inference Group: [jhspcausalinfERENCE.weebly.com/people.html](http://jhspcausalinfERENCE.weebly.com/people.html) and the Malone Center for Engineering in Healthcare: [https://malonecenter.jhu.edu/](https://malonecenter.jhu.edu/)

Duties and Responsibilities:
- Extract relevant data from electronic health records.
- Analyze data using advanced causal inference methods (targeted maximum likelihood estimation) that estimate the effect of longitudinal interventions.
- Write manuscripts for statistical journals and for medical journals describing results of data analyses and any new methods developed for these problems.

Qualifications:
- PhD in Biostatistics, Statistics, Computer Science, Epidemiology, Data Science, Engineering, or other quantitative field.
- Excellent scientific writing and speaking, especially in communicating complex ideas to a wide audience.
- Strong background in statistical inference and causal inference estimation methods, including knowledge of their strengths and limitations.
- Experience applying statistical methods to draw inferences from observational studies, preferably involving medical/public health applications.
- Experience in processing very large datasets.
- Interest in open-source software, reproducibility and data management.
- Familiarity with multiple programming environments (e.g., R, Python,…), and ability to learn new tools as required.

Please email the following to Michael Rosenblum and Suchi Saria ([mrosen@jhu.edu](mailto:mrosen@jhu.edu) and [ssaria@jhu.edu](mailto:ssaria@jhu.edu)) with Subject line: Postdoc position

- cover letter
- curriculum vitae (CV)
- name and contact information of at least three references
- writing sample (can be any document/manuscript where applicant is the primary author of the text)
- (optional) links to code portfolios such as GitHub