

Position Title: Post-doctoral Fellowship in Biostatistics

Expected duration: 2.5 years

Preferred start date: As early as possible

Posting Date: Nov 22, 2021

Description: The Department of Biostatistics at the Johns Hopkins Bloomberg School of Public Health invites applications for a Postdoctoral Fellow to work on developing Bayesian hierarchical models for analysis of cause-of-death data used to generate global mortality and burden-of-disease estimates. The Postdoctoral Fellow will work under the supervision of [Dr. Abhi Datta](#) and [Dr. Scott Zeger](#) in the Department of Biostatistics and will collaborate with a multi-disciplinary team with expertise in statistical methods, epidemiology, and global health. Post-doctoral fellows in the JHU Department of Biostatistics are encouraged to publish their research and have the opportunity if desired to participate in graduate-level teaching in preparation for successful academic careers.

Duties and Responsibilities: The candidate is expected to expand on recent methods (see [here](#) and [here](#)) on Bayesian machine learning for mortality estimation using novel and diverse cause-of-death data sources (verbal autopsies, minimally invasive autopsies, physician certifications), and apply the methods to obtain cause-specific mortality estimates at a global, regional or national scale. The candidate is also expected to implement the algorithms in a publicly available software.

Qualifications: Candidates with (or about to complete) a PhD degree in Statistics, Biostatistics, Computer Science or related fields are encouraged to apply. Expertise in developing hierarchical Bayesian models and implementing them (preferably in R/Stan) is preferred, along with experience in statistical data analysis. Knowledge about cause-of-death data is not required.

#### Salary & Benefits

Competitive annual salary (NIH-level minimum will be ensured) and benefits including health insurance and tuition-remission are provided. Further information on postdoctoral fellowships at Johns Hopkins can be found at <http://www.jhsph.edu/academics/postdoctoral-training>.

#### Application Instructions

To apply, please email the following to Dr. Datta ([abhidatta@jhu.edu](mailto:abhidatta@jhu.edu)) with subject line "Datta Bayes Postdoc":

- a 1-page cover letter summarizing research interests, career goals, and prior experience
- a curriculum vitae
- a writing sample, if any (e.g., a published paper or a preprint or a manuscript draft)
- names and contact information of 2-3 references.

Applications will be reviewed on a rolling basis starting immediately and until position is filled.