Medical University of South Carolina
Department of Public Health Sciences
Postdoctoral Fellow in Bayesian Modeling and Informatics

Position Summary: The Department of Public Health Sciences at the Medical University of South Carolina invites applications for a postdoctoral fellow in Bayesian modeling with a focus on medical informatics and public health research. The postdoctoral fellow will be supervised by Brian Neelon, PhD, Associate Professor of Biostatistics, and Dr. Leslie Lenert, Professor of Medicine and Chief Research Information Officer for the University.

Duties and Responsibilities: The postdoctoral fellow will apply methods originally developed in consumer research to help guide medical decision making. Specifically, the postdoctoral fellow will use Bayesian conjoint analysis models to cluster patients based on pre-treatment preferences. The results will subsequently be used to develop web-based recommender systems to inform patient-provider shared decision making. The postdoctoral fellow will contribute to ongoing research studies and will lead an independent research project related to the candidate’s interests. The postdoctoral fellow will help draft and lead manuscripts for publication, present research at conferences, and engage in other activities related to research dissemination. The goal of the position is to prepare future researchers for an independent academic or professional career in biostatistics and/or informatics, with an emphasis on Bayesian modeling and computation.

Qualifications: The selected candidate should have, or expect soon to have, a doctoral degree in Biostatistics, Statistics, or related quantitative field. The candidate should have solid training in Bayesian statistical methods and excellent computation skills. Preference will be given to candidates with expertise in Bayesian hierarchical modeling and computation, multivariate data analysis, and machine learning. Competency with R statistical software is required, and experience with C++, Python, or similar programming languages is a plus. Strong oral and written communication skills are essential.

Application Information: Applications should include a cover letter detailing experience and research interests, a CV, and contact information for 2 to 3 professional references. These materials should be emailed to Brian Neelon at neelon@musc.edu with the subject line “Postdoctoral Fellow Application”.

Appointment and Salary: This is a two-year position with year two dependent on the successful completion of year one. Salary will be commensurate with experience.

Contact Email: neelon@musc.edu

Website: http://people.musc.edu/~brn200/

Application Deadline: Review of applications will begin immediately and continue until the position is filled.