Postdoctoral Fellowships

The Biostatistics and Bioinformatics Branch (BBB) within the Division of Intramural Population Health Research (DIPHR) at the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health is soliciting applications from post-doctoral level scientists interested in the development and application of Bayesian statistical methods focusing on high-dimensional multi-omics measurements, including microbial metagenomics, metabolomics, human RNAseq and diet to further our understanding of host-microbe interactions and microbe-metabolite interactions. The successful candidate will have the opportunity to develop and train interpretable Bayesian machine learning algorithms on large publicly available repositories such as the Sequence Read Archive, with the goal of designing new clinical studies and enabling causal insights on clinical interventions.

Branch members conduct independent methodological research relevant to the design and analysis of epidemiological, behavioral and intervention studies. Much of the statistical research is motivated by collaborative research focusing on human reproduction and development, pregnancy, and child and adolescent health with DIPHR investigators. Postdoctoral fellows will have access to supercomputing resources and have the opportunity to collaborate with statistical, bioinformatic and clinical investigators within and outside of DIPHR on important studies. Candidates eligible to work in the USA, with an earned doctoral degree in bioinformatics, biostatistics, computer science, engineering or a related discipline within the past five years are invited to apply. We will give preference to candidates with methodological and computational interest and experience in Bayesian inference and/or machine learning and a background in Pytorch and/or Stan. Excellent communication skills with keen interest in applied biomedical research are required. Stipend is competitive and commensurate with research experience and accomplishments.

Interested candidates should email a complete application package consisting of: 1) a curriculum vitae (CV); 2) official transcripts for undergraduate and graduate degrees; 3) a statement of research interests to be pursued during training; and 4) three letters of reference to Dr. Neil Perkins at perkinsn@mail.nih.gov.

Further information about the Biostatistics and Bioinformatics Branch and Division may be found at https://www.nichd.nih.gov/about/org/diphr/bbb/Pages/default.aspx. These positions will remain open until qualified applicants are recruited. All inquiries about the position should be directed to Dr. Shyamal Peddada at shyamal.peddada@nih.gov.

HHS, NIH, and NICHD are Equal Opportunity Employers. NIH is dedicated to building a diverse community in its training and employment programs. Applications from women, persons from underrepresented groups, and persons with disabilities are strongly encouraged. The position is subject to a background check.