Faculty in the Departments of Mental Health and Epidemiology at the Johns Hopkins Bloomberg School of Public Health seek a postdoctoral fellow for participation and training as part of their research team.

The Johns Hopkins Bloomberg School of Public Health is consistently ranked the #1 School of Public Health in the world. It is dedicated to promoting human health and provides a rich environment for research and translation of those findings. Additionally, our research team is affiliated with the Wendy Klag Center for Autism & Developmental Disabilities. As a member of our research team the successful candidate will have the opportunity to attend hosted journal clubs, meetings, and annual symposia and retreat events.

We are particularly seeking individuals looking for training and research experience in areas relevant to autism spectrum disorders and neurodevelopment, with interests in environmental effects on the developing brain, epigenetic/genetic epidemiology, or gene-environment interaction applied to autism spectrum disorder or neurodevelopment. Post-doctoral fellows must have completed a Ph.D. in a relevant field (epidemiology, environmental health sciences, genetics, biostatistics, psychology, molecular or computational biology, etc.). Individuals from historically under-represented groups are particularly encouraged to apply.

Interested candidates should submit a letter outlining their research and training objectives (one page), CV with prior academic record, reprints of any relevant publications, and names of three references. Address applications to Heather Volk (hvolk1@jhu.edu) or Christine Ladd-Acosta (claddac1@jhu.edu).
**Data Analyst / Data Manager**

**General nature/purpose of work:**

Our research team seeks to study how environmental exposures and genomics work together to increase risk for autism spectrum disorder (ASD) and impaired cognitive development. As part of this effort we are looking for a highly motivated and talented individual with a strong background in data management and data analysis to join our research team. You will work with a highly collaborative interdisciplinary team of investigators spanning the fields of epidemiology, genomics, biostatistics, and environmental and mental health sciences. Under the supervision of the principal investigator you will be expected to independently carry out data analyses and work effectively with team members to achieve the overall goals of this project. The ideal candidate should enjoy a fast-paced, team-centered approach to discovery.

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**Primary duties and responsibilities:**

- Work in collaboration with scientists and core staff to address research questions involving the analysis of gene-environment interaction hypotheses.
- Carry out data analyses for large genomic datasets generated by an experimental team including genetic, epigenetic, and gene expression
- Mine publically available databases
- Modify existing methods for application to new datasets and types of analyses
- Identify systematic problems with data related to lab or data cleaning methods, software, or personnel.
- Documentation of work and data analyses.
- Contribute to the local protocol development and the preparation of research grant applications in the collaborative setting.
- Interpret and analyze the results of statistical analyses.
- Discuss with colleagues, investigators, and supervisor the need for any additional analyses and/or special methodological needs
- Clearly summarize and present findings at team meetings.
- Prepare written reports of statistical analyses, including relevant statistical theory, references, methods, results, and conclusions to contribute to scientific publications.
- Keep abreast of technical and academic resources related to the methodology of statistical analyses.

**MINIMUM REQUIREMENTS**

**Education:**
Masters degree in quantitative science field (biostatistics, epidemiology, computer science, biology with a strong quantitative background, etc) or Bachelors in quantitative science field with relevant experience. Proficiency with a programming environment such as MATLAB or R as well as experience utilizing a high-performance compute cluster. Must be organized, pay attention to detail, and be able to effectively communicate with team members. Experience in data management of high-dimensional or longitudinal data is preferred. The applicant must demonstrate ability for self-direction and initiation, as well as ability to work independently and as part of a team, to address problems/tasks.

**Special Skills/Knowledge:**
- Applicants must be fluent in English.
- Must be detail oriented, have effective organizational skills, and be able to prioritize workload appropriately.
- Must be able to perform multiple tasks efficiently and correctly.
- Arrives at work on time and is prepared to assist coworkers and faculty.

Interested applicants should forward their curriculum vitae to Heather Volk (hvolk1@jhu.edu) or Christine Ladd-Acosta (claddac1@jhu.edu).