

**Johns Hopkins Bloomberg School of Public Health  
Department of Biostatistics**

**Post-Doctoral Fellowship Opening  
Positions to begin Fall/Winter 2019 or Spring 2020**

**Applications Due:** Open until filled, applications will be reviewed on a rolling basis and those received by September 15, 2019 will receive priority.

The postdoctoral scientist will develop novel statistical methodology and lead the data analysis for a project related to studying gene expression changes from neurons and surrounding cells in enteric nervous system (ENS) in the gastrointestinal tract (gut) using bulk and single-cell RNA-sequencing data. The ENS contains the largest collection of neurons in the body outside of the brain and is commonly referred to as our “second brain”. A better understanding of the gut is highly relevant to public health because alterations and inflammation in the gut have been linked to diseases such as Parkinson’s, colitis, irritable bowel syndrome, anxiety and mood disorders, with limited treatment options. The long-term impact of this project will be a key step towards developing targeted treatments in the gut.

In addition, the postdoc will create and contribute robust, open-source software using the R/Bioconductor framework, have the opportunity to present her/his work at local and national conferences, and write open-access, peer-reviewed publications. Strong mentorship and personalized training to gain essential professional skills to achieve his/her long-term career goals (e.g. academic, industry, government) will be emphasized. The postdoc will work in the lab of Dr. Stephanie Hicks in the Department of Biostatistics at Johns Hopkins Bloomberg School of Public Health and will join the large community of genomics research happening at Johns Hopkins. This project is in collaboration with Dr. Subhash Kulkarni from the Johns Hopkins School of Medicine and Dr. Jay Pasricha, Director of the Johns Hopkins Center for Neurogastroenterology, and funding is supported by the Center for Neurogastroenterology through Bluefield Innovations. This position includes guaranteed funding up to 3 years. For more information, see: <https://www.stephaniehicks.com/join/>.

**Minimum Requirements:** Candidates must have received a PhD in statistics, biostatistics, data science, computational biology, bioinformatics, or a closely related discipline from an accredited college or university.

**Qualifications:** We are interested in self-motivated, collaborative individuals excited to work at the interface of single-cell genomics and cancer research with a focus on generating open-source software and open-access, peer-reviewed publications. Successful candidates will have previous technical experience analyzing high-throughput sequencing data. The focus of this project will be the methodological development and analysis of gene expression data. Successful candidates will also have excellent communication (oral and written) skills, strong organizational skills, and a proven track record of collaborative, peer-reviewed publications. Individuals hired will have appointments within the Department of Biostatistics at Johns Hopkins Bloomberg School of Public Health. Postdoctoral scientists will have the opportunity to participate in limited coursework or teaching. For more information about being a postdoctoral fellow at Johns Hopkins Bloomberg School of Public Health see: <https://www.jhsph.edu/academics/postdoctoral-training/>.

To apply, please email a cover letter, a curriculum vitae, and names and contact information of three references to Dr. Stephanie Hicks ([shicks19@jhu.edu](mailto:shicks19@jhu.edu)), using the subject header “Hicks Single-Cell Gut-Brain Postdoc”.

*The Johns Hopkins University is an equal opportunity/affirmative action employer committed to recruiting, supporting, and fostering a diverse community of outstanding faculty, staff, and students. Applicants will be considered for employment without regard to race, color, religion, sex, national origin, age, disability, veteran status, marital status, or sexual orientation. **Women and members of minority groups are highly encouraged to apply.***