



## **Postdoctoral Fellowship Opportunity Single Cell and Spatial Omics, Machine Learning, and AI**

A postdoctoral fellowship opening is available to work on statistical genomics and machine learning with a focus on single-cell and spatial omics under the direction of Dr. Hongkai Ji (<https://jilab.org>). Projects may involve developing statistical and machine learning methods, software tools, and foundational models for analyzing single-cell and spatial transcriptomic and epigenomic data, as well as data from emerging high-plex multi-omics profiling technologies. This role offers opportunities to contribute to both methodological advancements and their application in biology, medicine, and public health.

### **Key Responsibilities:**

- Development of novel statistical and machine learning methods
- Management and analysis of high-dimensional single cell, spatial, and multiome data
- Conducting literature reviews
- Collaboration with interdisciplinary teams
- Manuscript preparation for journal publications
- Presentation of research findings at scientific meetings

### **Qualifications:**

- PhD in a quantitative discipline (e.g., statistics/biostatistics, computer science, bioengineering, etc.)
- Strong programming skills
- Interest in both methodological and collaborative research
- Experience with deep learning is a plus

### **Salary and Benefits:**

Expected salary ranges: \$65,000-\$75,000, depending on prior experience. The referenced salary ranges are based on Johns Hopkins University's good faith estimate at the time of posting. Actual compensation may vary based on factors such as geographic location, work experience, market conditions, education/training and skill level.

### **How to Apply:**

Applications will be reviewed starting December 1, and the position will remain open until filled. Interested candidates should submit the following materials via email to Dr. Hongkai Ji ([hji@jhu.edu](mailto:hji@jhu.edu)):

1. Cover letter detailing your interest in the position and relevant experience
2. Curriculum Vitae (CV)

Additionally, applicants should arrange for three reference letters to be sent directly by their referees to [hji@jhu.edu](mailto:hji@jhu.edu).

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