*Job Title:*  **Postdoctoral Associate in Neural Circuits of Learning and Memory**

NIH-funded postdoctoral positions are immediately available to study neural circuit mechanisms of learning and memory and their involvements in neurological disorders.

Successful candidates will a) design and perform in vivo electrophysiological experiments that record a large number of single neurons in rats performing behavioral tasks, in combination with optogenetic, pharmacological and computational approaches, and b) carry out extensive, in-depth computational analyses of the recorded data and develop of data-driven models of neuronal network dynamics during spatial learning.

Experimental position will be based in the laboratory of Dr. Daoyun Ji at Baylor College of Medicine, which conducts high-quality hypothesis-driven research on exciting questions of how specific memory representations are formed, recalled and consolidated, which aspects of memory processing are impaired in neurodegenerative diseases and how they can be rescued at the neural circuit level. Computational and modeling position, focusing on recently developed methods of data analyses, will be based in the laboratory of Dr. Yuri Dabaghian the Department of Neurology at the University of Texas Houston, McGovern Medical School.

A Ph.D. in basic sciences/engineering or equivalent is required. Candidates with background in neuroscience, physical sciences, mathematics, and/or engineering are encouraged to apply. Previous experiences in data analyses, electrophysiology, animal behavior, and/or optogenetics using transgenic models or viral injections are preferred, but not required. We are looking for scientists who share our research interests and who are motivated by exciting science and eager to learn new skills.

To apply, please send application materials including a detailed CV, cover letter, and contact information of 3 references to Profs. D. Ji ([dji@bcm.edu](mailto:dji@bcm.edu)) and Dr. Yuri Dabaghian ([yuri.a.dabaghian@uth.tmc.edu](mailto:yuri.a.dabaghian@uth.tmc.edu)). The position is available immediately, until filled.

*Minimum Education:* Ph. D. in basic sciences or engineering.

*Minimum Job Experience:* None.

*Additional Information:* <https://www.bcm.edu/research/labs/daoyun-ji>

<https://med.uth.edu/neurology/faculty/yuri-a-dabaghian-phd/>

Send application and inquiries to [yuri.a.dabaghian@uth.tmc.edu](mailto:yuri.a.dabaghian@uth.tmc.edu) and [dji@bcm.edu](mailto:dji@bcm.edu).

*Job Category*: Postdoctoral Fellow/Associate

*Required Documents*: CV, cover letter, and contact information of 3 references

*Optional Documents*: None