

Open postdoctoral positions at Harvard Medical School in the Department of Neurobiology in systems and circuits neuroscience!

We are a new lab <https://www.garnerlab.hms.harvard.edu/> interested in several lines of research:

1. How do auditory processing and auditory memory affect visual perception? Our goal is to elucidate neural circuit mechanisms of multisensory interactions at different stages of hierarchical processing.
2. How does the brain take what it has already learned to implement expectations that alter our interpretation of what we see and hear? Our aim is to reveal the neural circuitry and computations that underly how memories interact with auditory and visual information processing to create perception.
3. What are the long-range cortical pathways and neural circuit mechanisms underlying sensorimotor transformations in healthy mice and mouse models of neurodegenerative diseases. Our goal is to understand the different neural pathways that allow an animal to move in response to sensory stimulation and how plasticity in these pathways can be manipulated to alleviate symptoms of neurodegenerative diseases.

To address our questions, we train mice to play video games in a virtual reality environment while we image neural activity in their brain using 2-photon calcium imaging. The postdoctoral position is fully funded, and many opportunities exist to seek additional funding to further your independent career. Prior experience in 2-photon imaging, wide field imaging, or electrophysiology is required. Reasonable experience in programming is also required. Previous experience working with rodents is preferred. The Department of Neurobiology at Harvard Medical School is a vibrant, interactive community with many opportunities for career support for postdocs.

Please email Dr. Aleena Garner, Aleena_Garner@hms.harvard.edu, a cover letter- max 1 page- describing 1) your experience in physiology, 2) programming languages in which you have experience and your fluency, 3) why you are interested in this position. Please include your CV or résumé in the email as well.