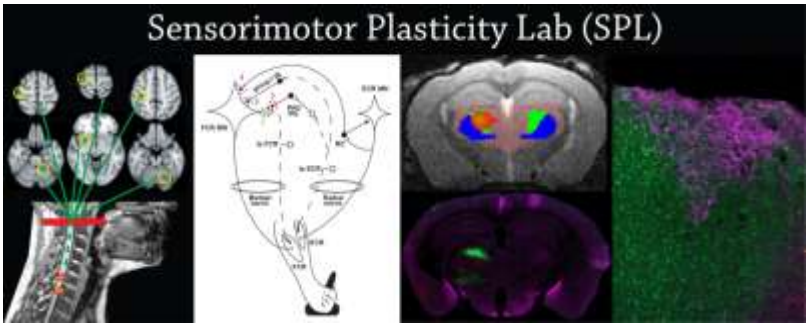

PhD position available in sensorimotor plasticity in rodent models

One PhD studentship position is available in the Sensorimotor Plasticity Lab at the University of Florida to study motor learning and recovery in rodent models of stroke using cutting-edge neuroimaging and optogenetic stimulation techniques. Project involves behavioral training, stereotactic surgery, and functional MRI in rodents, as well as fMRI data analysis.

Location: Department of Applied Physiology and Kinesiology, and McKnight Brain Institute at University of Florida

Funding: University/Departmental funding available for this position upon approval

Qualifications: The Successful applicant must have a master's degree in Biomedical Engineering, Biology, Neuroscience or related field. Prior experience working with mice/rats, neuroimaging and/or wet lab experience is preferred.

Start date: Aug. 2020
Applicants must send their CV (including contact information of two references; will only be contacted if the candidate is shortlisted), and a cover letter outlining the position they are applying to (rodents or humans), and their suitability for the post to: svahdat@ufl.edu.

About Sensorimotor Plasticity Lab, Director: Dr. Shahab Vahdat
Using both human and rodent models, we study the mechanisms of neural plasticity in the sensorimotor system. We are particularly interested in how the brain and spinal cord circuits change to support "learning" in the intact nervous system and "relearning" after stroke. We use this knowledge to develop novel therapies to promote motor recovery post-stroke. Our lab uses a variety of multimodal techniques including simultaneous brain-spinal cord fMRI and paired-pulse stimulation. In rodents, we use optogenetic fMRI for cell-type specific stimulation and visualization of neural circuits.