

Postdoc positions open in University of Maryland School of Medicine

A. fMRI signal processing

We are looking for highly motivated postdoc research fellows in neuroimaging data processing. We are particularly interested in machine learning (including deep learning), time series analysis, and connectome analysis. One position is immediately available from Nov 2021. Another two will be available from Dec 2022 and we expect to finish this cycle of recruiting by July 2022. The positions are supported by R01 projects. Our overarching goals are to develop and evaluate deep learning-based method and new resting state fMRI processing strategies. Related projects ongoing in the lab include deep learning-based ASL perfusion MRI processing, brain entropy and coherence mapping. The ideal candidates should have method development experience in fMRI or neuroimaging signal processing. Background in electrical engineering, computer science, or mathematics is highly preferred. Python, Matlab programming skills are required. Experience on multi-band fMRI data processing is considered a plus.

B. Deep learning-based image reconstruction

This position is dedicated to deep-learning based image reconstruction and motion correction. Required skills and experience include: deep learning and MR image reconstruction. C++ programming experience will be preferred but not a necessary condition. The ideal candidate should have background in one or more of the following fields: image reconstruction, machine learning, MR physics, electrical engineering, computer science, or mathematics. This position will have intensive interactions with teams from University of Pennsylvania and Siemens.

Candidates for these positions are expected to have good communication skills and have good writing skills. We are willing to provide competitive salary.

Interested candidates should send CV and a brief introduction to Ze Wang: ze.wang@som.umaryland.edu.

Information about Dr. Wang's lab can be found in:

<https://www.medschool.umaryland.edu/cair/Principal-Investigators/Ze-Wang-PhD/>.