

STANFORD

# Postdoctoral Fellowship in Neuroradiology: MRI-Histology

---

*Tools*

Human imaging: *in vivo* & *ex vivo* brain specimens

3.0T MR

7.0T MR –human head and small bore for animals/specimens

PET-MR

Advanced pulse sequence implementation

DTI/QSM/Hippocampal Subfield Analyses

Traditional Histology & quantitative correlation with MRI

CLARITY, X-ray microscopy, EM

Machine learning

---

*Scientific Questions*

Basic brain anatomy and connectivity

Neurodegenerative disorders:

Alzheimer's disease

Traumatic brain injury

Chronic fatigue syndrome

MS

Epilepsy

Publications at <http://med.stanford.edu/zeinehlab/publications.html>

---

*Who should apply*

Hard working applicants that are smart, motivated, and interested to learn about research design and methods while working on collaborative, interdisciplinary projects and writing papers. Computer, MRI, and image-processing know-how a must (MATLAB, UNIX, FSL, etc.). Experience with histology techniques a definite plus. Good writing skills and excellent references required.

---

*Contact*

[mzeineh@stanford.edu](mailto:mzeineh@stanford.edu)

<http://med.stanford.edu/zeinehlab.html>

---