

## **CogT Lab Postdoctoral Fellow Position Description**

The CogT Lab at Stanford University is looking for a postdoctoral fellow to conduct an NIH-funded research project aimed at developing a brain-computer interface-based personalization engine for computerized cognitive training. The goal of the project is to identify neural mechanisms that can help promote healthy aging and delay functional decline in typical and pathological brain aging processes.

Our lab uses a translational framework to understand brain aging at various levels. Specifically, identifying how both healthy aging and pathophysiology differentially influence brain circuits known to play a role in behaviors (e.g., affect, cognition, mobility) important for “aging in place” (i.e., aging in one’s own home, a core goal of aging research).

The candidate will have the opportunity to collaborate with interdisciplinary groups at Stanford, including Stanford AI, medical imaging, and neuroscience institutes. Strong statistical and computational skills are essential; experience in translational/clinical laboratory research will be advantageous. All fellows will be offered an NIH-level competitive monthly stipend.

### **Required qualifications:**

- PhD from an accredited university in computational and engineering sciences (e.g., computer science, computational biology, electrical engineering, biomedical engineering) or other related fields.
- Proficiency in machine learning and time series algorithms.
- Proficiency in Python programming.
- Strong communication skills.
- Experience with signal processing of medical imaging data.

### **Required application materials:**

- Letter of interest
- CV
- Names and contact details of three references

**Contact:** F. Vankee Lin, PhD ([Vankee\\_lin@Stanford.edu](mailto:Vankee_lin@Stanford.edu))

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