Postdoctoral Fellowship in Data Science Applications to Cognitive Aging and Brain Health

San Francisco VA / UCSF MIRECC Fellowship

Dr. Kristine Yaffe and the SFVA/UCSF Center of Population Brain Health are recruiting for an advanced two-year Post-Doctoral Fellowship Program in Data Science Applications to Cognitive Aging and Brain Health. **Potential areas of application include bioinformatics, big data, genetic epidemiology, prognostic models, and machine learning.** The fellowship is associated with the Sierra Pacific Mental Illness Research Education and Clinical Center at the San Francisco VA Health Care System is (MIRECC; VISN 21) and affiliated with the University of California, San Francisco (UCSF).

The primary goal of the program is to train fellows with a doctoral degree in epidemiology, statistical genetics, bioinformatics, biostatistics, computer science, data science or similar quantitative field to become skilled investigators for advancing our understanding of Alzheimer's disease, dementia, and cognitive aging with a focus on solving new challenges in cognitive and brain health research. Over the course of the 2-year program, fellows are trained in bioinformatic concepts and computational methods with opportunities to generate novel approaches and tools to analyze dementia and brain health data. The successful candidate will work on large scale datasets to address research questions. Potential areas of focus include risk and resilience factors, health disparities, and the ADRD exposome. Fellows will be responsible for driving an original research agenda while also gaining skills and training to become an independent investigator.

Under the guidance of Fellowship Director, Dr. Kristine Yaffe, the candidate will have the opportunity to collaborate with investigators and participate in didactic sessions. Additional faculty mentors are affiliated with the SFVAHCS services for Mental Health, Medicine, Neurology, and Radiology, the UCSF/ SFVAHCS Center for Population Brain Health, the UCSF Departments of Psychiatry and Behavioral Sciences, Neurology, Epidemiology/Biostatistics, Precision Medicine, Neuroscience, the Bakar Computational Health Sciences Institute, and the Global Brain Health Institute.

We are a team of multidisciplinary researchers, dedicated to advancing brain heath across the lifespan. We emphasize population-based research methods to identify risk and protective factors for dementia, cognitive aging, and brain health, and to optimize cognitive and emotional brain health in aging. The expertise of our faculty spans the fields of epidemiology, neurology, and psychiatry. This fellowship is funded by the Office of Academic Affiliations (OAA), Department of Veterans Affairs (VA).

Faculty:
- **Kristine Yaffe, MD**, Fellowship Director, board-certified psychiatrist and neurologist (https://yaffe.ucsf.edu/)
- **Yue Leng, PhD,** epidemiologist
- **Shea Andrews, PhD**, genetic epidemiologist
- **Dugyu Tosun, PhD,** engineer and neuroimaging expert
- **Jennifer Yokoyama, PhD,** behavioral geneticist
- **John Boscardin, PhD,** biostatistician
- **Marina Sirota, PhD,** computational scientist

To apply, please email the following to Tina Hoang (administrative assistant) tina.hoang@va.gov

1. Letter of interest detailing your research experience, interests, career goals, and proposed faculty mentor(s) from list above
2. CV
3. 3 letters of recommendation

The application deadline is **November 15, 2023.** Applications submitted after that date may be considered until the position is filled.