

Postdoctoral opening in Pieces of Mind Lab

The [Pieces of Mind Lab](#) (PI: Mark Lescroart) at the University of Nevada, Reno is seeking a postdoctoral researcher. The lab uses a combination of fMRI, psychophysics, and cutting-edge computational modeling to study how information about objects, bodies, and scenes is represented in the brain. Ongoing projects in the lab are investigating the representation of object boundaries and the representation of 3D surfaces and other navigationally relevant information in the brain, as well as the representation of shape dimensions in deep neural networks and humans. Other areas for potential projects include investigation of the representation of bodies and actions and investigation of the effects of attention to objects or elements of scenes.

The position is available starting as soon as January 2019, and will remain open until filled. Funding is currently available for at least two years, and the position may be extended depending on the developing funding situation and research progress. Salary will be commensurate with experience according to the [NIH postdoc pay scale](#).

Responsibilities

- Plan and run fMRI experiments, organize and analyze large fMRI datasets.
- Publish results in peer reviewed vision / neuroscience-oriented journals and conferences
- Collaborate with students and research staff on related projects

Mandatory Qualifications

- A PhD in neuroscience, computer science, psychology, graphics, or a related field
- Experience coding in Matlab, Python, R, C++, and/or other languages
- Record of peer-reviewed work that demonstrates computational and analytical skills, as well as potential for conducting independent research.
- Good command of English.

Desired Qualifications

- Experience with neuroimaging data analysis (preferably fMRI) and familiarity with literature in one or more of the following domains: vision fMRI, visual psychophysics, computer vision, graphics
- Experience with Linux programming environment
- Experience with graphics software (Blender, Maya, Unreal Engine, Unity, etc)
- Experience with machine learning and statistics, including model fitting, regression analysis, dimensionality reduction, classification, and model visualization.

UN Reno

The University of Nevada, Reno is a land-grant research and teaching institution. The Cognitive & Brain Sciences division of the Psychology Department at UNR currently includes 10 labs focused on visual neuroscience and visual cognition, and is part of an integrative neuroscience program. The university has made a major investment in building Neuroscience as an area of strategic growth, and has also invested substantially in cyberinfrastructure, including a state-of-the art high performance computing facility.

The university is centrally located adjacent to downtown Reno. Boasting a vibrant counter-cultural scene with ties to the Burning Man festival, the Reno-Tahoe area has long been a destination for world-class outdoor recreation, including hiking, skiing, and climbing. Reno is situated on the eastern slope of the Sierra Nevada, 45 minutes from Lake Tahoe, four hours from the San Francisco Bay Area, and near both Yosemite and Lassen National Parks. Reno averages has 262 days of sun per year, and a very reasonable cost of living compared to many coastal cities and university towns.