

Postdoctoral Scholar Position in Multisensory Perception
University of Southern California & California Institute of Technology

A postdoctoral scholar position is available at the University of Southern California (USC, located in Los Angeles, California) in collaboration with the California Institute of Technology (Caltech, also in Los Angeles) for the study of multisensory perception (both behavioral and neuroimaging) in the visually impaired. The goal of this project is to develop a comprehensive understanding of the changes in multisensory integration of audition and vision that result from degenerative conditions such as Age-Related Macular Degeneration (AMD), Retinitis Pigmentosa (RP), and Non-Arteritic Anterior Ischemic Optic Neuropathy (NAION). The proposed studies will provide crucial insights into key characteristics of functional reorganization in the human brain, and will also pave the way for the next generation of multisensory aids, multisensory visual prostheses, and rehabilitation approaches.

As an example, here is a link to a recent Vision Sciences Society (VSS) abstract on “Mapping Audio-Visual Crossmodal Interactions in the Visually Impaired”, a key project within this research effort:

<https://jov.arvojournals.org/article.aspx?articleid=2771393>

The postdoctoral scholar will join a multidisciplinary collaboration between the Optical Materials and Devices Laboratory at USC (mentored by Professor Armand R. Tanguay, Jr. and Dr. Noelle R. B. Stiles) and the Shimojo Psychophysics Lab at Caltech (mentored by Shinsuke Shimojo).

Candidates should have completed a Ph.D. and/or M.D., and have relevant research experience that includes past training with fMRI. Experience with blind or low vision patient groups is beneficial, but is not a requirement. Experimental and technical skills including programming (such as in MATLAB or Python) are highly desirable. Salary will be based on NIH guidelines, and will be commensurate with experience. The position is available immediately, although consideration will also be given to candidates who would prefer a later start date. The postdoctoral scholar position is initially for one year, and is potentially renewable based on performance and the continuing availability of research funding.

The University of Southern California has an active postdoctoral community and opportunities for the development of leadership and research skills, including Provost’s Postdoctoral Scholar Research Grants, Postdoctoral Scholar Travel Support, and Postdoctoral Tuition Remission Benefit. Additional Information can be found at: <https://postdocs.usc.edu/postdoctoral-affairs-at-usc/>

The University of Southern California is an equal opportunity employer, and encourages applications from women and minorities.

Candidates should send a current CV, a statement of research skills and interests, and a list of 3 references to Dr. Noelle R. B. Stiles (nstiles@usc.edu).