



- With over \$10 million in current extramural funding, auditory research at UCI's School of Social Sciences is among the largest of its kind in the U.S.
- Research facilities and technologies include:
 - Several anechoic and sound-proof audiometric testing chambers
 - Multi-channel EEG systems for the study of brain-computer interface
 - Cochlear-implant technology for the deaf
 - Transcranial Magnetic Stimulation (TMS) for the study of focal brain functions
 - Virtual Reality technology
 - Extensive use of two multi-million dollar fMRI facilities to study neural activity patterns in the human auditory cortex

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The Social Sciences Hearing Research Group uses advanced and emerging technologies to conduct basic research on auditory functions from speech, language and music perception to dysfunctions of perception and production such as aphasia, stuttering and neurodevelopmental disorders.

investigate

The group uses an interdisciplinary approach integrating expert knowledge in psychology, cognitive neuroscience, biomedical engineering and mathematics. Faculty have received numerous honors and awards, including the National Academy of Sciences's Troland Award for innovative approaches to research in hearing sciences.

innovate

The number of people suffering from hearing loss of more than 25 dB is expected to reach 700 million by 2015 (MRC Institute). The Social Sciences Hearing Research Group significantly impacts progress in basic science and translational/applied developments in the hearing sciences. The group trains future scientists and educates the public on causes of hearing disorders and introduces them to preventive measures and new technologies designed to improve the lives of those suffering from auditory dysfunctions.

impact