INVESTIGATE INNOVATE IMPACT

UC IRVINE | SCHOOL of SOCIAL SCIENCES

where I make a difference

Associate professor Jeff Krichmar's Cognitive Anteater Robotics Lab (CARL) uses robots to learn how the brain adapts to different environments. Photo by Daniel Anderson, University Communications.

MIND, BRAIN & BEHAVIOR

SCHOOL OF SOCIAL SCIENCES

In the School of Social Sciences, we investigate issues that matter to society, ranging from an exploration of how changes in the brain's neurons can lead to Alzheimer's to an analysis of brain responses that may contribute to delayed language development in children with autism.

Our interdisciplinary focus helps spark innovative solutions to real-world problems, from development of new software-based decision making models used in the government and defense industry to exploration and discovery of new training methods that may improve attentional abilities in those with attention deficits and disorders.

Our research, teaching and outreach programs impact the world around us. From development of programs that address early childhood language and literacy needs to comprehensive cognitive research that may ultimately improve the quality of life for those with brain disorders, what we do makes a difference.

MIND, BRAIN & BEHAVIOR

Our mind, brain and behavior initiative investigates one of the greatest current scientific challenges —understanding the human mind and its biological functions.

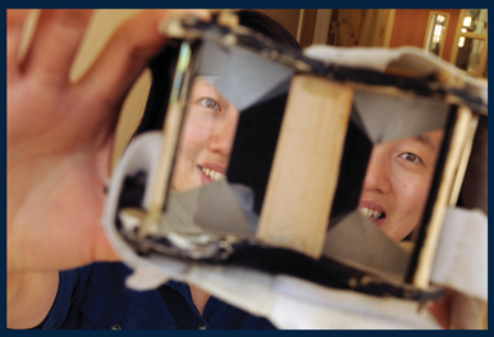
Innovative research focuses on attention and information processing, memory and language; hearing; vision; and decision making.

Findings impact our scientific understanding of diseases and disorders including Alzheimer's, schizophrenia, autism and dyslexia, to name a few.

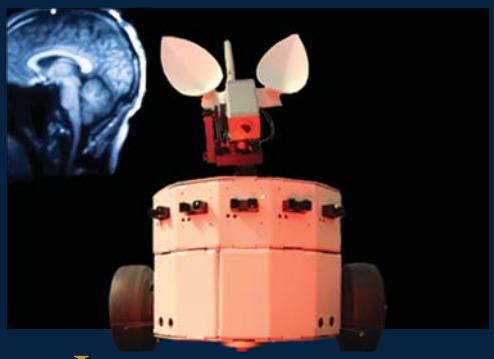
Centers, departments, programs and labs involved in accomplishing these goals include:

- Center for Cognitive Neuroscience
- Center for Hearing Research
- Department of Cognitive Sciences
- Cognitive Development Lab
- Auditory and Language Neuroscience Lab
- Jumpstart
- Home-based Activities Building Language Acquisition Program (HABLA)

School of Social Sciences



INVESTIGATE



INNOVATE

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INNOVATIVE, STATE OF THE ART TECHNOLOGY

Modern research in mind, brain, and behavior requires new tools to measure brain regions and brain states in humans as they carry out mental tasks. These include electrical (EEG) and magnetic (MEG) measures of brain activity and functional magnetic resonance images (fMRI) of brain state.

- fMRI Brain Imaging Facilities
  Systems for measurement of functional magnetic resonance images (fMRI) that measure brain activity in humans, with auditory display capabilities.

- EEG/MEG Brain Imaging Facilities
  Electrical and magnetic measurement of brain activity, including simultaneous measurement of EEG with fMRI.

- Auditory, Visual and Behavioral Testing Facilities
  Anechoic chambers, sophisticated visual displays, and systems to measure human movements.

- Computational Modeling
  Computer and robotic systems to model human brain and behavior.

INVESTING IN PEOPLE

To recruit and retain top scholars, facilitate excellence and growth in our academic programs and interdisciplinary centers and strengthen community service and outreach, we need your investment.

- People
  Named Chairs in Cognitive Science (2 @ $2M)
  Graduate Endowed Fellowships (4 @ $250K)
  Graduate Term Fellowships (4 @ $10K)
  Undergraduate Scholarships (4 @ $125K)

- fMRI/EEG/MEG Brain Imaging Facilities
  Equipment Expenditures: $3M

- Annual Budget from Endowment Earnings
  Directors research stipend: $50K
  Graduate Fellowships: $50K
  Research stipends for special research projects: $50K
  Facilities staffing, equipment contracts, etc.: $200K

- Audition, Vision, Perception and Action Facilities
  Equipment Expenditures: $500K

Your gift to cognitive sciences has the power to transform individuals and communities and truly make a difference. Contact us or visit us online at www.socsci.uci.edu to learn how past donations have helped fund our future leaders.

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