Laboratories at the RIC

Biomedical Imaging Analysis
Jack Lancaster, Ph.D.

Magnetic Resonance Imaging
Jia-Hong Gao, Ph.D.

Positron Emission Tomography
Paul Jerabek, Ph.D.

Small Animal Imaging
Duff Davis, Ph.D.

Cognitive Neuroscience
David C Glahn, Ph.D.

Clinical Neuroscience
Peter T. Fox, M.D.

Human Electrophysiology
Shalini Narayana, Ph.D.

Animal Electrophysiology
James Bower, Ph.D.

Departments associated with the Neuroscience Imaging PhD

UTHSCSA

- Cellular & Structural Biology
- Neurology
- Physical Therapy
- Physiology
- Psychiatry
- Radiology

UTSA

- Biology
- Psychology

UTHSCSA – Research Imaging Center
7703 Floyd Curl Drive
San Antonio, TX 78229-3900

Neuroscience Imaging PhD

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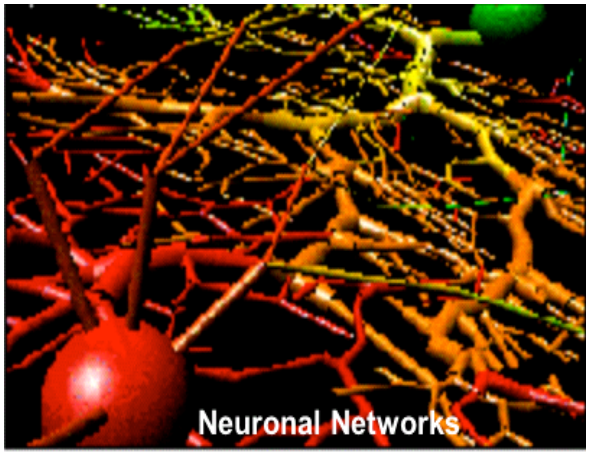
Radiological Sciences Graduate Program
UT Health Science Center
at San Antonio
7703 Floyd Curl Drive
San Antonio, TX 79229-3900
Phone: 210-567-8100
http://ric.uthscsa.edu/
Email: RICGradProg@uthscsa.edu

The Research Imaging Center

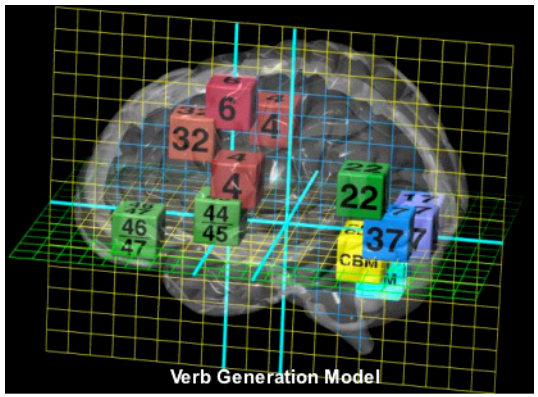
Peter T. Fox, MD, Director

The mission of the RIC is to develop non-invasive imaging and measurement methods and to apply these methods to basic and clinical neuroscience research. Our state-of-the-art equipment includes: 3T human MRI; high-resolution human and animal PET; robotic image-guided TMS delivery system; electrophysiology and optical imaging laboratories; and, modeling and computational facilities. The RIC is the home of the **Talairach Daemon**, the **BrainMap Database**, the **GENESIS Neural Simulation System,** and the editorial offices of the journal, **Human Brain Mapping**. The RIC provides the Human Imaging Core of the local General Clinical Research Center and the Animal Imaging Core for the Nathan Shock Aging Center.



Educational Objectives

It is generally recognized that imaging brain behavior will play an increasingly important role in understanding brain function. As yet, however, there are relatively few graduate programs in which students receive state-of-the-art training in imaging technology while at the same time being immersed in basic neuroscience at multiple levels of scale. The breadth of Neuroscience expertise at the RIC coupled with the availability of the latest imaging devices and technologies provides graduate students a unique opportunity for this type of multi-disciplinary training and research.



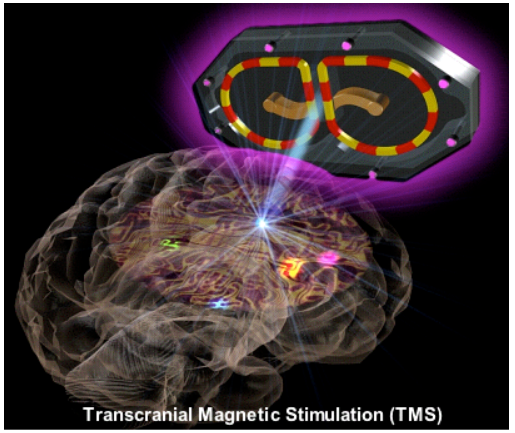
Imaging Methods

Human

- fMRI
- PET
- EMG
- aMRI
- TMS
- Multi-modality imaging
- MRS
- ERP

Animal

- fMRI
- PET
- Electrophysiology
- aMRI
- TMS
- MRS
- Optical



Faculty Expertise

Faculty research interests include neurology, psychiatry, medical physics and biophysics, cognitive and experimental psychology, molecular biology and genomic imaging, neurophysiology, neuropharmacology, and computational neuroscience. Studies include both human and animal models. RIC faculty are well-published in the fields of neuroscience and imaging technology You are invited to view publication lists via the RIC website at http://ric.uthscsa.edu.

How to apply

Information on the application process is available on the RIC website. Applicants who pass the first stage of review will be invited to San Antonio for interviews in late February or early March. Final admissions decisions will be made by early April.