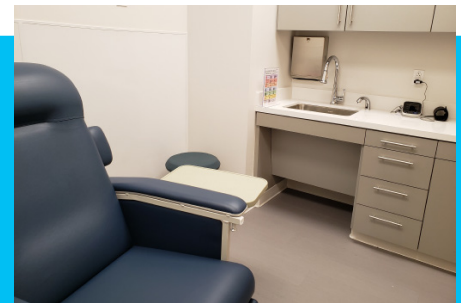
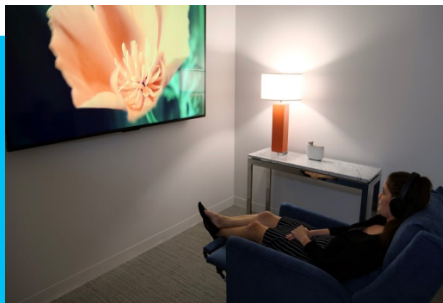


## SAMMONS BRAINHEALTH IMAGING CENTER

Conduct your research at a one-of-a-kind facility focused on human brain imaging to measure brain health and function.



### RESEARCH CENTERED SERVICE

- Experienced MRI personnel
- Assistance with implementation of your protocol
- Standard functional and anatomical sequences
- State-of-the-art pulse sequences
  - pCASL (arterial spin labeling) from USC
  - Multiband EPI from U of Minnesota
  - Spectroscopy Package from U of Minnesota
  - ABCD Package from Massachusetts General Hospital
  - Dual Echo pCASL from McGill University
- Phlebotomy/Collection Room
- Meeting & Consent Room

### PARTICIPANT FRIENDLY FACILITY

- New, non-medical building is centrally located, inviting and non-intimidating
- Mock scanner to familiarize participants with the scanning environment
- Multi-sensory Brain "Reset" Room featuring gentle music, aroma therapy, and award-winning MovingArt™ calming visual scenes
- Evening hours (coming soon)

## EQUIPMENT AVAILABLE

- Two 3T Prisma scanners
  - Running Syngo MR E11C software with 60 cm bore
  - Multiple coil configurations (32- and 64-channel)
  - iPAT<sup>2</sup> (integrated Parallel Acquisition Techniques) for simultaneous parallel imaging in 3D sequences
- Stimulus presentation system with mounted screen inside bore
- Non-magnetic, non-electronic response switches to capture participant responses
- Eyelink 1000+ eyetracker equipped with 2000Hz high-speed fiber-optic cameras
- BIOPAC MP160 data acquisition and analysis system includes MR-safe amplifier modules for collection of electrical activity generated by the heart, skin conductance level (SCL) and skin conductance response (SCR), and subject respiration
- Auditory stimuli through in-ear headset (passive noise reduction)
- RespirAct sequential gas delivery (SGD) system to render end-tidal (i.e., end exhaled) partial pressures (i.e., what is measured) very close to partial pressures in arterial blood parallel imaging in 3D sequences

## OUR TEAM



### DR. BART RYPMA, PhD

Director, Sammons BrainHealth Imaging Center  
Professor, Behavioral and Brain Sciences, UT Dallas  
Meadows Foundation Endowed Chair in Behavioral  
and Brain Sciences

### JASON GRUBB, BA, RT(R)(MR)

MRI Technology Manager

### SERGEY CHESHKOV, PhD

Research Scientist

### ANGELA PLATA

Administrative Coordinator