

May 21

MRI

Techniques

Magnetic Resonance Imaging Techniques Used in Brain Injury Research

This seminar will present basic information about how a magnetic resonance imaging (MRI) scanning machine works and how T1-weighted, T2-weighted, FLAIR (fluid attenuated inversion recovery), GRE (gradient recalled echo), and DTI (diffusion tensor imaging) MRI scans are used in brain research. It will also discuss how CT (computed tomography) x-ray scans are combined with MRI scans in brain research.

Time: 15:00, Tuesday, May 21, 2019

Venue: E3-212, 144 Xuan Thuy, Cau Giay, Hanoi

Prof. Paul Jantz
Texas State University, USA



<https://www.txstate.edu/clas/schoolpsychology/program-faculty/Paul-Jantz.html>

Dr. Paul B. Jantz is a Fulbright Scholar from Texas State University where he is a full-time faculty member in the school psychology Specialist Degree program. At Texas State University, Dr. Jantz teaches about brain anatomy, the biological basis of behavior, data-based decision-making, and ethics. Dr. Jantz's research and professional interests include the role of neuroimaging in the assessment of children with traumatic brain injury (TBI), how brain networks are affected by TBI, and how brain networks contribute to violent acts in children and adults.

Dr. Jantz has published a number of practitioner-focused articles and case studies on TBI in peer-reviewed journals and co-authored the book *Working with TBI in Schools: Transition, Assessment, and Intervention*. Dr. Jantz has acted in the capacity of an expert witness in legal cases involving children who have sustained a TBI. Dr. Jantz is currently a 10-month Fulbright Scholar at Vietnam National University of Hanoi, University of Social Sciences and Humanities, Faculty of Psychology located at 336 Nguyen Trai Street, Thanh Xuan District, Hanoi, Vietnam.