SEMINAR SERIES
Nevada Institute of Personalized Medicine
and
Cleveland Clinic Lou Ruvo Center for Brain Health
Friday, April 21, 2017
4:00 PM
SEB 1242
(UNLV Science and Engineering Building, Maryland Pkwy/Cottage Grove Ave)

Investigating structural MR imaging biomarkers of cognitive impairment

Christopher Bird
Coordinator Research II

At the Cleveland Clinic Lou Ruvo Center for Brain Health, Chris has worked with hundreds of anatomical magnetic resonance imaging (MRI) images from publicly available large datasets such as the Alzheimer’s Disease Neuroimaging Initiative (ADNI), as well as from clinic patients. Chris has recently used a new shape analysis software (“Mindboggle”) on ADNI patients in an effort to identify anatomical markers for early Alzheimer’s disease progression compared to similar patients who subsequently demonstrate more stable mild cognitive impairment. Chris received a B.A. in psychology from the University of Colorado at Boulder in 2007. Prior to joining the CCLRCBH in 2015, he researched the EEG neural activity underlying cognitive processes for learning and memory in healthy participants at the University of Colorado.

Neuroimaging and Cognition in Alzheimer’s and Parkinson’s

Sarah J. Banks, PhD
Head, Neuropsychology Program

Sarah Banks, PhD, ABPP-CN, is a clinical neuropsychologist and Head of the Neuropsychology Program at the Cleveland Clinic Lou Ruvo Center for Brain Health. She graduated from Northwestern University (PhD 2007), had a predoctoral internship at University of Chicago, and completed a postdoctoral fellowship at the Montreal Neurological Institute. Dr. Banks’ clinical practice involves characterizing patients’ cognitive profile, and integrating this information with medical and psychological factors to help with diagnosis and in suggesting appropriate interventions. She assesses patients with disorders including Alzheimer’s disease, frontotemporal dementias, multiple sclerosis and movement disorders such as Parkinson’s disease, as well as other neurological conditions. Dr. Banks’ research involves combining neuroimaging measures and neuropsychological tests to learn more about early changes in aging and neurodegenerative disease. She is also involved in research on sex difference in neurodegenerative disease, the long term impact of contact sports on the brain, as well as how olfaction and memory interact in the brain.