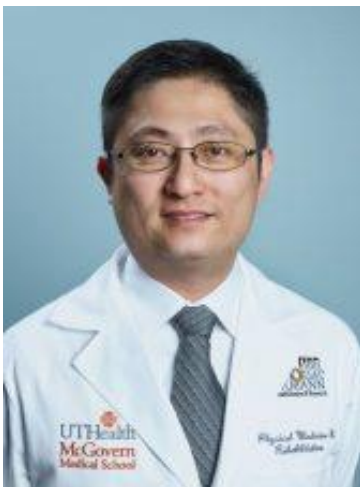




AAMAS 2019 Speaker Dr. Chang

**Friday, April 26, 2019
10:15-11:30 AM**



Shuo-Hsiu "James" Chang, PT, PhD, is Assistant Professor in the Department of Physical Medicine and Rehabilitation at the McGovern Medical School. He is also the Administrative Director of the NeuroRecovery Research Center (NRRC) and a Scientist at TIRR Memorial Hermann. Dr. Chang is a physical therapist from Taiwan and received an MS and PhD in Human Movement Science, with the specialty in motor control and learning, from The University of North Carolina at Chapel Hill. He received the Fellowship in Geriatric Research Award from Section on Geriatrics, American Physical Therapy Association in 2005 for his significant contribution in geriatric research. During his postdoctoral training at the University of Iowa, his research focused on neuromuscular plasticity and neurophysiology.

As a human movement specialist, his current research focuses on the mechanism of motor recovery with emphasis on effects of neuromuscular modulation, and clinical application of rehabilitation robotic devices in gait rehabilitation, mobility and community integration. He is particularly interested in developing effective interventions that can exercise paralyzed or weak muscles and facilitate plasticity in neuromuscular and musculoskeletal systems in patients with neurological disability. He has received funds to investigate the effects of peripheral stimulation on spinal and cortical excitability and identify biomarkers that may modulate the excitability following neurological injury and the effects of lower limb exoskeleton locomotion training on gait in patients with neurological injury.

