

MEDICAL PHYSICS SEMINAR SERIES



Jason Moody, MS

*Graduate Research Assistant
Medical Physics, UW-Madison*

Monday, February 14, 2022

4:00PM (CT) via Webex

medphysics.wisc.edu/seminars

Scan to Join Meeting:



Characterizing Deterioration in White Matter Microstructure Associated with Aging and Alzheimer's Disease Dementia

White matter deterioration is a hallmark of cognitive decline and Alzheimer's disease (AD) dementia in aging adults. Recent evidence suggests that alterations in white matter microstructure are a critical component of early AD pathophysiology, with some studies suggesting that white matter degeneration may precede cortical gray matter atrophy. Using several diffusion-weighted MRI models and associated biomarkers of neurodegeneration, we assessed the relationships between changes in white matter microstructure, age, cerebrospinal fluid markers of AD pathology, and AD clinical status in hundreds of late-middle-aged adults along the AD continuum.



**School of Medicine
and Public Health**
UNIVERSITY OF WISCONSIN-MADISON