#### CURRICULUM VITAE

University of Florida

# PERSONAL INFORMATION

Name: Adam J. Woods, PhD

Citizenship: USA

**RANK/TITLE** Associate Dean for Research, College of Public Health and Health Professions

Director, Center for Cognitive Aging & Memory (CAM)

Professor, Department of Clinical and Health Psychology (CHP)

Director, Woods Neuromodulation Lab

Departments: Clinical and Health Psychology (Primary), Neuroscience (Affiliate)

Institute: McKnight Brain Institute

College: Public Health and Health Professions

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## **EDUCATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Institution | Major/Focus | Degree/Position | Years |
| University of Pennsylvania, Philadelphia, PA | Cognitive Neuroscience | Post-Doctoral Fellow | 2010-2013 |
| George Washington University, Washington, DC | Cognitive Neuroscience | Doctor of Philosophy | 2005-2010 |
| University of Alabama at Birmingham, Birmingham, AL  | Psychology | Bachelor of Science  | 1999-2003 |

**RESEARCH INTERESTS**

Primary prevention trials, cognitive aging remediation, non-invasive interventions, Alzheimer’s disease, dementia prevention, neuroplasticity/neuromodulation, non-invasive brain stimulation, clinical translational neuroscience

**RESEARCH METHODS**

Primary prevention, clinical trials, structural and functional magnetic resonance imaging, proton and phosphorous magnetic resonance spectroscopy, diffusion weighted imaging, human electrophysiology, behavioral/cognitive interventions, non-invasive brain stimulation, transcranial direct current stimulation (tDCS), transcranial alternative current stimulation (tACS), transcranial magnetic stimulation (TMS), near infrared photobiomodulation

**RESEARCH SYNOPSIS**

***Pathways of Prevention in Cognitive Aging & Dementia using Neuromodulation:*** Cognitive function declines as we age. As our thinking and memory skills decline, the rate of functional dependence, mortality, and acute illness requiring hospitalization increases. Increased rates of cognitive and functional decline associated with dementia represent a growing concern considering our rapidly aging population. There is currently a paucity of effective treatments for preventing dementia or recovering age-related cognitive decline. A variety of methods have been proposed to counteract cognitive aging and/or slow onset of dementia (e.g., cognitive training). Unfortunately, these techniques have limited degrees of success and transfer to everyday life. My work demonstrates that combining treatments like cognitive training with non-invasive brain stimulation (tDCS, TMS, tACS) facilitates neural plastic response, improves cognitive abilities (specifically working memory, attention, and speed of processing), and leads to long-term improvement. In combination with modern multimodal neuroimaging, artificial intelligence, and electrophysiology recording, this work not only identifies mechanisms underlying improvement, but also provides information important for further optimizing treatment effectiveness. This work has led to funding of the largest and first Phase III randomized clinical trial for tDCS as an adjunctive method with cognitive training to remediate cognitive aging and potentially prevent dementia onset. In addition, my lab is funded to investigate mobility enhancement in older adults, treat chronic knee osteoarthritic pain, and enhance working memory function using a variety of non-invasive electrical brain stimulation methods in Phase II trials. At present, my lab maintains over 17 million dollars in active NIH funding to investigate non-invasive brain stimulation and other neuromodulation-based preventative interventions. Collectively, my work aims to slow the effects of cognitive aging and slow the onset of dementia using non-invasive and minimally invasive approaches. At present, a major focus in my lab uses machine learning and other artificial intelligence approaches paired with multimodal imaging, behavior and clinical variables/outcomes to identify novel pathways to precision dosing/medicine applications of non-invasive brain stimulation methods in patient populations and predict neurodegenerative disease onset.

Ongoing Research Support

**PRINCIPAL INVESTIGATOR**

NIA RF1AG071469 (Woods/Fang, MPIs) 06/01/21-05/31/25

National Institutes of Health $2,925,577

Study Title: Mechanisms, response heterogeneity and dosing from MRI-derived electric field models in tDCS augmented cognitive training: a secondary data analysis of the ACT study

The goal of this study is to leverage state of the art MRI-derived computational modeling of person-specific electric fields generated from tDCS with artificial intelligence/machine learning methods to determine the characteristics of electric current in the brain associated with treatment response to cognitive training and tDCS from the Phase III ACT clinical trial. These methods will be used to generate precision dosing methods for future clinical trials.

Role: Contact PI

NIA R01AG064587 (Woods/Bowers/Alexander; MPIs) 08/01/19-04/31/24

National Institutes of Health $3,797,247

Title: Revitalizing Cognition in Older Adults at Risk for Alzheimer's Disease with Near-Infrared Photobiomodulation

Description: This five-year R01 multisite Phase II randomized clinical trial will investigate the impact of near-infrared (NIR) photobiomodulation, a form of non-invasive brain stimulation, on cognition and mitochondrial function in older adults at risk for Alzheimer’s disease. University of Florida (parent site) and the University of Arizona will perform a six-week intervention using NIR and assess changes in cognition, functional brain response and mitochondrial function (31P magnetic resonance spectroscopy) before, immediately post-intervention, and 3 months post-intervention in a population of 168 older adults.

Role: MPI

NIA T32AG020499 (Marsiske/Woods/Smith; MPIs) 05/01/20-04/30/25

National Institutes of Health $1,788,970

Research Training in Non-Pharmacological Interventions for Cognition in Aging, MCI, and Alzheimer’s Disease

This pre-doctoral training grant will provide dedicated research training to PhD students in non-pharmacological intervention methods for remediating age-related cognitive decline, cognitive symptoms of MCI and AD as well as methods for potentially preventing conversion to MCI and AD. The training program is designed around three substantive areas: 1) behavioral interventions, 2) multi-component compensatory interventions, and 3) non-invasive brain stimulation interventions. The training grant provides training to 6 predoctoral students per year.

Role: MPI

NIA R01AG070349 (Krisher; PI) 02/01/2021-01/31/2026

National Institutes of Health $4,733,533 (UF sub amount)

Preventing Alzheimer’s Disease through Cognitive Training (the PACT trial)

This five-year R01 project will investigate the benefits of cognitive training in preventing Alzheimer’s disease in 7600 older adults across the United States. Participants will undergo useful field of view/double decision training with pre- and post-intervention assessment as well as 3 year follow up with MRI and blood biomarkers. This will be the largest cognitive training trial in history aimed at definitively answering whether cognitive training can reduce dementia risk in healthy older adults. UF will serve as a study site enrolling 838older adults in the PACT study.

Role: Site PI

NIA R01AG075014 (Krisher; PI) 09/01/2022-08/31/2027 $6,148,368 (UF sub amount)

National Institutes of Health

Planning an adaptive clinical trial of cognitive training to improve function and delay dementia: the ACTIVE MIND trial

This five-year R01 project will continue the clinical trial designed and implemented in U01AG062368 in a Phase II format. The study will investigate impact of various forms of cognitive training on functional abilities and dementia conversation in patients with mild cognitive impairment. Dr. Woods will lead the UF site on this trial. His site will also lead the neuroimaging and data management for the overall trial. This grant involves sites at University of South Florida (parent site), University of California San Francisco, Clemson University, and the University of Florida (Gainesville and Jacksonville Campuses).

Role: Site PI

**CO-INVESTIGATOR**

NIA R37AG033906 (Fillingim; PI) 06/01/19-04/31/24

National Institutes of Health $6,144,138

Understanding Pain and Limitations in Osteoarthritic Disease

The goal of this project is to evaluate transcranial direct current stimulation and mindfulness-based stress reduction, alone and in combination, as treatments of chronic osteoarthritic knee pain in a two-site phase II clinical trial.

Role: Co-I

NIA R01AG081477 (Clark; PI) 05/01/23-04/30/27

National Institutes of Health $4,801,618

Upregulating frontal cerebral circuits to enhance executive and mobility function: UPfront-2

Declines in cognitive function and walking function are highly related in older adults. A therapeutic approach that combines complex (cognitively engaging) aerobic walking exercise with non-invasive electrical brain stimulation may be effective at restoring lost function. This study tests whether electrical stimulation of prefrontal brain regions is more beneficial than stimulation to motor regions or sham stimulation.

Role: Co-I

NIDDK R01AG083039 (Bian; PI) 09/01/23-08/30/26

National Institutes of Health $1,361,614

Title: An end-to-end informatics framework to study Multiple Chronic Conditions (MCC)’s impact on Alzheimer’s disease using harmonized electronic health records

Description: This study will leverage electronic medical record data across the One Florida Health System in combination with unique recruitment of 300 MCI patients at the University of Florida by Dr. Woods in the ACTIVE MIND trail to build better EHR harmonization tools.

Role: Co-I

**MENTORSHIP-BASED FUNDING**

NIH/NIA K23AG080127 (Gullett, PI/PD) 05/01/23-04/30/28

Using Artificial Intelligence to Predict Cognitive Training Response in Amnestic Mild Cognitive Impairment

Description: This 5-year K23 provides training to the candidate in artificial intelligence, clinical trials, and cognitive training methods. Dr. Woods will serve as the primary mentor for Dr. Gullett.

Role: Primary Mentor

NIH/NIA R01AG064587-02S1 (Woods/Bowers/Alexander; MPIs) 08/01/19-04/31/24

National Institutes of Health

Title: Revitalizing Cognition in Older Adults at Risk for Alzheimer's Disease with Near-Infrared Photobiomodulation: Diversity Supplement

Description: This two-year diversity supplement to the parent R01 multisite Phase II randomized clinical trial will provide concentrated training for post-doctoral fellow Dr. Stacey Alvarez-Alvarado in neuroimaging and cognitive assessment in older adults at risk for older adults

Role: Primary Mentor

NSF GRFP (Albizu) 09/01/2021-08/31/24

National Science Foundation

Title: Using Artificial Intelligence to Understand Functional Connectivity Changes from tDCS

Description: This 3-year fellowship will support Mr. Albizu (Woods Lab) to study AI analytic approaches and functional brain connectivity changes from tDCS in Dr. Woods lab.

Role: Primary Mentor

Pending research Support

NINDS UG3 (Bowers, Woods, Hess; MPIs)

National Institutes of Health $3,710,644

Title: Revitalizing Motor and Cognitive Symptoms in Parkinson Disease with Near-Infrared Photobiomodulation

Description: This proposal seeks to investigate near infrared photobiomodulation as a method for reducing symptoms from Parkinson’s disease on motor and cognitive symptoms. Patients will undergo 12 weeks of intervention three days per week with a long-term 6 month follow up using comprehensive motor and cognitive assessment and multimodal neuroimaging.

Role: MPI

NIA K25 (Indahlastari, PI/PD)

National Institutes of Health $807,743

Title: A Mechanistic Study to Investigate tDCS and Working Memory in MCI Patients

Description: This 5 year career award will focus on enhancing the candidates skills in artificial intelligence, clinical trials, and functional neuroimaging. Dr. Woods will serve as the primary mentor.

Role: Primary Mentor

Completed Research Support

NIA R01AG054077 (Woods/Cohen/Marsiske; MPIs) 09/01/16-04/31/23

National Institutes of Health $6,872,724

Augmenting Cognitive Training in Older Adults (ACT)

This study is a Phase III definitive multi-site randomized clinical trial with an adaptive design that will establish the benefit of delivering adjunctive transcranial direct current stimulation (tDCS) with cognitive training in older adults to combat cognitive aging. This trial measures both trial success and intervention mechanisms using multimodal neuroimaging and magnetic resonance spectroscopy, as well as comprehensive neurocognitive and functional assessment.

Role: Contact PI

NIMH RF1MH114290-01 (Sadlier; PI) 07/19/17-07/18/22 (NCE)

National Institutes of Health $2,046,092

Mechanism and dosimetry exploration in transcranial electrical stimulation using magnetic resonance current mapping methods

The goal of this project is to pioneer an objective measure of current flow in the brain using state of the art magnetic resonance imaging methods combined with in scanner application of tDCS and tACS. This project will also assess the relationship between activation in working memory related regions from an NBACK fMRI task and correspondence of change following F3-F4 in scanner tDCS.

Role: Co-I

NIH/NIA F31AG071264 (Lopez, PD/PI) 07/11/2020-06/30/2022

National Institutes of Health

Title: Cognitive correlates of mitochondrial function in older adults

Description: The trainee will learn how to assess mitochondrial function in the brain using 31P phosphorus magnetic resonance spectroscopy in a group of older adults undergoing multimodal neuroimaging and cognitive assessment in the parent REVITALIZE R01.

Role: Mentor

McKnight Brain Research Foundation (Williamson, PI) 08/1/19-07/31/22 (NCE)

McKnight Brain Research Foundation $120,000

Transcutaneous Vagal Nerve Stimulation and Cognitive Training to Enhance Cognitive Performance in Healthy Older Adults

The goal of this funding is to use transcutaneous auricular vagal nerve stimulation with cognitive training to improve cognition and functional neuroimaging biomarkers in healthy aging in a two site Phase I/II clinical trial.

Role: Co-I

VA Merit Review $62,788

VA Rehabilitation Research and Development Service

Title: Cerebral networks of locomotor learning and retention in older adults

Description: This four-year Merit application extends the ongoing collaborative work in R21AG053736 to investigate the impact of tDCS paired with complex walking as an intervention for mobility decline in older adults to a larger Phase II trial with increased mechanistic insight through multimodal neuroimaging. I will lead all aspects of tDCS clinical trial implementation in the trial.

Role: Co-I

NIA R01AG061065 (Barve/Cohen, MPIs) 09/01/18-05/31/22

National Institutes of Health $779,748

Role of Gut Microbial Dysbiosis and Aging on HIV-associated neurocognitive and brain dysfunction

The goal of this project is to investigate the relationship between gut microbiota and neurocognitive function in older adults with HIV. The project uses multimodal imaging with 31P phosphorous MRS, functional MRI, and structural MRI to investigate brain-based mechanisms.

Role: Co-I

Parkinson’s Foundation Impact Award (Bowers, PI)

Parkinson’s Foundation $150,000

Revitalizing Cognition and Motor Symptoms in Parkinson Disease: A pilot study with NIR stimulation

The goal of this pilot clinical trial is to evaluate the impact of near infrared photobiomodulation in alleviating cognitive and motor symptoms of Parkinson Disease. The study will use a multi-week transcranial and intranasal application of NIR and participants will be randomized to active or sham stimulation with evaluation of 31P MRS, rs-fMRI, cognitive and motor function pre and post-intervention.

Role: Co-I

NIA U01AG062368 (Edwards; PI) 09/30/18-05/31/22 (NCE) $614,914

National Institutes of Health

Planning an adaptive clinical trial of cognitive training to improve function and delay dementia

This two-year U01 project will develop the infrastructure for a large Phase II/III clinical trial investigating the impact of various forms of cognitive training on functional abilities and dementia conversation in patients with mild cognitive impairment. I will lead the UF site on this trial and will also lead the neuroimaging and data management for the pilot trial and in the subsequent full trial submission. This grant involves sites at University of South Florida (parent site), University of California San Francisco and the University of Florida.

Role: Site PI

McKnight Brain Research Foundation (Woods/Bowers, MPIs) 05/1/18-04/31/22

McKnight Brain Research Foundation $120,000

Near infrared brain stimulation in older adults.

The goal of this funding is to use near infrared brain stimulation to improve cognition, 31P MRS markers of ATP, and functional neuroimaging biomarkers of cognitive and metabolic decline in healthy aging in a 2-site phase II pilot trial.

Role: MPI

NIMH R21MH112206 (Woods/Ding, MPIs) 1/15/18-/12/31/21

National Institutes of Health $395,034

Stimulating Theta Oscillations to Enhance Working Memory

This project will the impact of transcranial alternating current stimulation (tACS) on working memory network synchrony in the theta band of EEG using electrophysiology and functional magnetic resonance imaging.

Role: MPI

K01AG050707-A1 (Woods; PI) 09/30/16-05/31/21

National Institutes of Health $612,715

Neuromodulation of Cognition in Older Adults

The goal of this study will be to investigate the ability of transcranial direct current stimulation to enhance the effectiveness of cognitive training targeting attention, speed of processing, and working memory function in older adults. Training will focus on cognitive aging interventions and advanced magnetic resonance imaging and spectroscopy methods.

Role: PI

NIA R21AG053736-01A1 (Clark; PI) 07/01/17-06/31/19

National Institutes of Health $189,233

Combining tDCS and neurorehabilitation to treat age-related deficits of mobility and cognition

The goal of this study is to obtain pilot data for a full-scale clinical trial combining transcranial direct current stimulation (tDCS) and complex walking intervention to enhance mobility in older adults.

Role: Co-I

UF Pain and Aging Pilot Initiative (Woods/Cruz-Almeida, Co-PIs)

University of Florida $30,000

Treating generalized pain in older adults with transcranial direct current stimulation (tDCS)

This study will use two weeks of tDCS to treat generalized pain disorder in older adults and investigate neural correlates of tDCS related analgesic effects.

Role: Co-PI

McKnight Brain Research Foundation (Woods, PI) 09/1/19-08/31/21

Center for Cognitive Aging and Memory Pilot $100,000

Enhancing Cognition in Older Adults with Intermittent Hypoxia and Cognitive Training (EXCITE)

The goal of this funding is to use intermittent hypoxia paired with cognitive training to improve cognition, 31P MRS markers of ATP, and functional neuroimaging biomarkers of cognitive and metabolic decline in healthy aging.

Role: PI

L30 AG051178 (Woods; PI) 07/01/15-08/30/20

NIH Loan Repayment Program; National Institute on Aging (NIA)

Study Title: Neuromodulation of Cognition in Older adults

Two-year loan repayment support for research on the use of transcranial direct current stimulation paired with cognitive training to enhance cognitive function in older adults.

Role: PI

Francis Marion College Internal Grant (Sargent; PI) 01/30/18-12/31/20

Francis Marion College

Enhancing Undergraduate Student Exposure to Research

The goal of this project is to increase research exposure to students at Marion College and enhance the Marion College PIs lab with equipment and expertise in modern neuroscience methods (EEG) by mentorship from an established PI at a top-tier university. Dr. Woods serves as mentor to Dr. Sargent on this project, providing training in EEG. Dr. Sargent and 8 undergraduates from Marion College visit Dr. Woods’ lab once per year to gain exposure and experience with research in a state-of-the-art academic medical research environment. This internal project is intended to prepare the faculty mentee for submission of an NIH R15 grant.

Role: Faculty Mentor

McKnight Brain Research Foundation (Woods; PI) 07/1/15-07/1/19

McKnight Brain Research Foundation $114,164

Neuromodulation of cognition in older adults: The stimulated brain study

The goal of this funding is to use transcranial direct current stimulation to improve functional neuroimaging biomarkers of cognitive and metabolic decline in healthy aging.

Role: PI

Industry Sponsored Trial (Woods; PI) 06/15/16-06/15/18

Osato Research Institute $268,360

Impact of Fermented Papaya Product on brain energetics, neuroplasticity, and cognition

The goal of this study is to perform a pilot clinical trial investigating the influence of Fermented Papaya Product on brain energetics, neuroplasticity, and cognition in older adults with elevated systemic inflammation using multimodal neuroimaging (fMRI, DWI) and spectroscopy (31P, 1H-MRS), as well as assessment of systemic inflammation and cognition.

Role: PI

NIA T32 (McLaren: Student PI) 04/01/17-03/30/19

National Institutes of Health $80,000

Dissociating anhedonia and apathy in older adults: an fMRI study

The goal of this project is for the student to obtain training in functional magnetic resonance imaging on a project that enrolls older adults with symptoms of anhedonia and apathy and undergoing an fMRI EEFRT task, in addition to testing for cognitive function and depression.

Role: Mentor

UF Cancer and Aging Initiative (Lyon/Cohen, Co-PIs)

University of Florida $100,000

Neuroinflammation and Cognitive Dysfunction in Older Women with Breast Cancer

This pilot study will investigate the influence of chemotherapy on cognitive and brain function, focusing on the role of neuroinflammation in chemotherapy-associated cognitive decline.

Role: Co-I

TL1 (Nissim; Student PI) 08/01/16-07/30/18

National Institutes of Health/UF CTSI $80,000

Enhancing working memory through neuromodulation and cognitive training

The goal of this project is for the student to obtain training in clinical translational science on a project using tDCS and cognitive training to enhance cognitive and functional brain response in older adults.

Role: Mentor

NIA R01AG044424 (Clark; PI) 09/1/14-08/31/18

National Institutes of Health $1,376,867

Neural mechanisms of dynapenia: The UNCODE study

This translational physiology study seeks to determine the neurological mechanisms (or contributors) to muscle weakness (i.e., Dynapenia) classically observed in older adults.

Role: Co-I

NIDDK R01DK099334 (Cohen; PI) 06/25/14-05/31/19

National Institutes of Health $1,826,328

Obesity and type-2 diabetes: Bariatric surgery effects of brain function

This prospective longitudinal study will examine whether cerebral metabolic and vascular dysfunction, including glucose/insulin disturbances (co-morbid diabetes) underlie obesity-associated cognitive dysfunction, and whether significant weight loss and diabetes remission following bariatric surgery reduces these disturbances.

Role: Co-I

NHLBI R56HL127175 (Williamson; PI) 09/08/15-08/31/18

National Institutes of Health $478,898

Brain and cognition effects of cardio resynchronization therapy in heart failure

The goal of this study is to evaluate cognitive and brain consequences of cardiac resynchronization therapy in heart failure patients using functional neuroimaging, magnetic resonance spectroscopy, & arterial spin labeling.

Role: Co-I

NIBIB U54EB020403 (Thompson; PI) 09/29/14-09/30/18

National Institutes of Health $180,000

ENIGMA Center for Worldwide Medicine, Imaging, and Genomics

The goal of this study is to utilize a worldwide research consortium to facilitate big data computing of medical, neuroimaging, and genome data to further our understanding of disease states in the human brain.

NIAAA F31AA024060 (Bryant; Student PI) 05/01/15-04/30/18

National Institutes of Health $109,474

Working memory: a critical factor underlying alcohol reduction intervention response

The goal of this project is to evaluate the role of working memory function in response to an effective alcohol reduction intervention (Motivational Interviewing) in HIV and non-HIV older adults. The student will receive training in functional and structural magnetic resonance imaging methods.

Role: Co-Mentor

Ethel Moore Fund (Bowers, PI) 02/01/16-08/31/16

State of Florida $99,000

Pilot Intervention in Mild Cognitive Impairment: A proof of concept study with Transcranial Near Infrared Stimulation

The goal of this study is to obtain pilot data for effectiveness of TNIS in treatment of cognitive impairment in MCI, with acquisition of mechanistic phosphorous magnetic resonance spectroscopy (31P MRS) data investigating change in brain ATP metabolism.

Role: Co-I (Neuroimaging expertise/analyses)

2 P30 AG028740-06 (Pahor; PI) 04/15/12-03/31/16

National Institutes of Health $63,150

Claude D. Pepper Older Americans Independence Center (OAIC) Pilot Project:

A pilot study to evaluate the role of brain integrity on post-hospital sarcopenia (Pilot PI: Manini)

The goal of this funding is to provide pilot data on the role of brain white matter integrity in post-hospital physical decline.

Role: Co-PI

2 P30 AG028740-06 (Pahor; PI) 04/15/12-03/31/16

National Institutes of Health $47,532

Claude D. Pepper Older Americans Independence Center (OAIC) RC1 Development Project:

Development of Clinical Methods to Evaluate Neural Function in Aging (Project PI: Buford)

The goal of this development project is to provide support for the enhancement of the methodological skills of Pepper Center investigators to include modern methods of diffusion tensor imaging analysis.

Role: Co-I

2 P30 AG028740-06 (Pahor; PI) 04/15/12-03/31/17

National Institutes of Health $98,494

UF Claude D. Pepper Older Americans Independence Center (OAIC) KL2 Award:

A study of cross-cultural differences in analgesic effects of transcranial direct current stimulation (tDCS) in white and Asian older adults with chronic pain: KL2 awardee (Ahn).

Role: Co-Mentor

NIA K99AG048762 (Fazeli; PI) 09/15/14-05/31/16

National Institutes of Health $1,712,409

A novel neurorehabilitation approach for cognitive aging with HIV

The goal of this study is to investigate the efficacy of cognitive training paired with tDCS on remediation of cognitive deficits in HIV positive older adults. Dr. Fazeli will receive training in aging and tDCS research methods.

Role: Co-mentor

Fund to Cure Stroke (Mennemeier; PI) 05/15/14-05/15/16

Fund to Cure Stroke $35,593

Jump-starting motor function after stroke using tDCS

The goal of this study will be to determine the efficacy of tDCS at facilitating motor recovery after stroke using transcranial direct current stimulation paired with GaitRite motor training.

Role: Consultant

CTSI KL2TR001429-01 (Woods; PI) 03/15/14-03/15/16

NIH & Clinical Translational Science Institute KL2 Career Award $200,234

Neuromodulation of working memory function in older adults.

The goal of this funding is to provide investigators with further training in clinical translational science. The funded project will involve a randomized clinical trial pairing transcranial direct current stimulation with cognitive training to enhance working memory function in older adults.

Role: PI

McKnight Brain Institute (Woods; PI) 11/19/13 $80,000

Acquisition of a whole brain 31P-1H magnetic resonance spectroscopy coil in the University of Florida AMRIS 3T MRI Scanner.

This fund provided for the acquisition of new equipment in the McKnight Brain Institute.

Role: PI

T32NS007413 (Robinson; PI) 09/01/08-08/31/13 $123,867

Training Grant in Intellectual and Neurodevelopmental Disabilities

The goal of this study is to provide support for neuroscience research training in neurodevelopmental disorders.

Role: Post-Doctoral Trainee

NSF GRFP (Woods; PI) 09/01/06-09/01/09 $120,000

National Science Foundation Graduate Research Fellowship: to develop an independent line of research investigating brain arousal systems in human behavior.

Role: PI

RC1NS068910 (Mark; PI) 10/01/09-10/01/2011 $90,587

Validating the NIH Toolbox in the Neurorehabilitation Setting

The goal of this study was to provide validation of the NIH Toolbox screening in rehabilitation inpatients.

Role: Statistical Consultant

**PATENTS & COPYRIGHTS**

Patent Under Review. 2023. System and method for precision dosing for electrical stimulation of the brain. US 2023/0293899 A1

Copyright. 2020. Case No. 1-8902131281. tDCSLAB software.

**ACADEMIC AWARDS & HONORS**

2022 UF Foundation Term Professorship Award, University of Florida

2020 Excellence in Research Mentorship Award, Dept. of Clinical and Health Psychology, University of Florida

2019 Tenure, University of Florida

2018-2020 University Preeminence Term Professorship, University of Florida, College of Public Health and Health Professions

2017-2019 NIH Loan Repayment Program Recipient, Funding Agency: National Institute on Aging

2016-2021 NIA K01 Career Development Award Recipient

2015-2017 NIH Loan Repayment Program Recipient, Funding Agency: National Institute on Aging

2015 Young Investigator Award, NYC Neuromodulation 2015, New York, NY, USA

2014 Clinical Translational Science Institute KL2 Research Fellow, University of Florida

2014 Elected as Junior Fellow to the World Academy of Art and Science

2010-2013 National Institute of Health (NIH) T32 Post-doctoral Fellowship, Intellectual and Developmental Disabilities Research Center, Children’s Hospital of Philadelphia, University of Pennsylvania

2009-2010 Thelma Hunt Research Fellowship, George Washington University

2009-2010 Graduate Research Fellowship, The George Washington University

2008 Research Enhancement Grant, George Washington University

2006-2009 National Science Foundation (NSF) Graduate Research Fellowship (Cognitive Neuroscience Division)

2005 Academic Fellowship, Columbian College of Arts and Sciences, George Washington University

2003 Graduated Honors in Psychology, University of Alabama at Birmingham

 2003 Graduated Cum Laude, University of Alabama at Birmingham

2003 1st Place John P. Ost Undergraduate Psychology Research Competition

2003 Golden Key National Honor Society

2003 Phi Kappa Phi National Honor Society

2003 Gamma Sigma Alpha Honor Society

2003 Dean’s List, University of Alabama at Birmingham

2002-2003 National Dean’s List

2001 Psi Chi Honor Society

2000 Presidential Honors, University of Alabama at Birmingham

2000 Alpha Lambda Delta Honor Society

2000 National Society of Collegiate Scholars

1999 Dean’s List, University of Alabama at Birmingham

**PROFESSIONAL SOCIETIES**

Association of Schools and Programs of Public Health

American Public Health Association

American Academy for the Advancement of Science (AAAS)

Society for Neuroscience (SfN)

World Academy of Art and Science

American Psychological Association (APA)

APA Division 20: Adult Development and Aging

North American Neuromodulation Society (NANS)

International Neuropsychological Society (INS)

International Neuromodulation Society (INS)

**Editorial BoardS**

Frontiers in Psychology: Psychology for Clinical Settings (Review Editor)

Frontiers in Perception Science (Review Editor)

Frontiers in Aging Neuroscience (Special Edition Editor)

Frontiers in Aging Neuroscience (Associate Editor)

Bioelectronic Medicine (Associate Editor)

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**AD HOC rEVIEWER**

*Cognitive and Clinical Neuroscience*

Brain Stimulation

NeuroImage

Journal of Cognitive Neuroscience

Journal of Neuroscience Methods

Journal of Clinical and Experimental Neuropsychology

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Neuropsychologia

Frontiers in Cellular Neuroscience

Neural Plasticity

International Journal of Psychophysiology

*Aging*

Neurobiology of Aging

Experimental Gerontology

Journal of Gerontology: Medical Sciences

Alzheimer’s Research & Therapy

Frontiers in Aging Neuroscience

*Psychology*

Psychonomic Bulletin & Review

Journal of Experimental Psychology: Human Perception & Performance

Journal of Experimental Psychology: Learning, Memory, & Cognition

Frontiers in Psychology: Perception Science

Journal of Experimental Child Psychology

Rehabilitation Psychology

Behavioral Research Methods

*Medicine*

Yale Journal of Biology and Medicine

PM&R

International Journal of Clinical Practice

**GRANT REVIEW ACTIVITY**

NIH CSR Human Complex Mental Function (HCMF, formerly Cognition and Perception) Study Section – standing member – 06/26/20-06/25/24

University of Florida Research Opportunity Seed Fund Translational Biomedical Science Review Committee – 03/20 to present

UF Center for OCD and Anxiety Research (COARD) Pilot Grant Review Committee – 2019 to 2121

VA Rehabilitation Research & Development Service Review Group – SPIRE Special Emphasis Panel – 01/16

VA Rehabilitation Research & Development Service Review Group – SPIRE Special Emphasis Panel – 05/16

NIH RFA-MH-16-810, BRAIN Initiative:  Non-Invasive Neuromodulation - New Tools and Techniques for Spatiotemporal Precision – Review Panel – 06/15/16

NIH RFA-MH-17-240, BRAIN Initiative:  Non-Invasive Neuromodulation - New Tools and Techniques for Spatiotemporal Precision – Review Panel – 03/22/17

NIH Cognitive and Perception Study Section – ad hoc member – 06/26/17-06/27/17

NIH RFA-MH-16-240, BRAIN Initiative:  Non-Invasive Neuromodulation - New Tools and Techniques for Spatiotemporal Precision – Review Panel – 03/16/18

**DATA SAFETY AND MONITORING BOARD Membership**

DSMB Board Member. The Papaya Study (Anton, PI). University of Florida Industry Trial. January 1, 2016 - September 1, 2016.

DSMB Chair. Study of the effects of transcranial magnetic stimulation and constraint induced language therapy for the treatment of chronic aphasia (Coslett, PI). NIDCD R01 DC016800. March 1, 2019 – March 1, 2024.

**Conference Organizing Committee Activity**

NYC Neuromodulation 2020 Conference Online, April 20-23, 2020, Role: Conference Scientific Program Committee

NYC Neuromodulation Conference & NANS Summer Series, New York, NY, USA, August 24-26, 2018, Role: Conference Scientific Program Committee

NYC Neuromodulation 2017, New York, NY, USA, January 13-16, 2016, Role: Conference Co-Organizer, Conference Co-Chair

6th International Conference on Transcranial Brain Stimulation, September 9, 2016, Göttingen, Germany, Role: Abstract Reviewer

3rd International GABA MRS Symposium, Orlando, FL, USA, October 14-15, 2015, Role: Co-Organizer

1st NYC Neuromodulation 2013, New York, NY, USA, November 22-23, 2013, Role: Co-Organizer

**Conference Session or Symposium Chair Activity**

Symposium Chair, Invited: Neuromodulation of Cognition in Older Adults: From behavior to imaging and machine learning, NYC Neuromodulation 2020 Online, April 21st 2020.

Symposium Chair, Invited: Variability in Neuromodulation, NYC Neuromodulation 2017, New York, NY, USA, January 15, 2017.

Symposium Chair, Invited: Modeling in Neuromodulation, NYC Neuromodulation 2017, New York, NY, USA, January 15, 2017.

Symposium Chair, Invited: New Frontiers in tDCS Mechanisms, NYC Neuromodulation 2017, New York, NY, USA, January 14, 2017.

Symposium Chair, Invited: Using Neuroimaging and EEG to Individualize Neuromodulation, NYC Neuromodulation 2017, New York, NY, USA, January 14, 2017.

Symposium Chair, Invited: Neuromodulation at Home, NYC Neuromodulation 2017, New York, NY, USA, January 14, 2017.

Symposium Chair, Invited: Therapy Psychiatry, 6th International Conference on Transcranial Brain Stimulation, Göttingen, Germany, September 9, 2016.

Symposium Chair, Invited: GABA Measures in Neurocognitive and Functional Research – Networks and Stimulation,3rd International Symposium on GABA, Orlando, Florida, USA, October 15, 2015.

**International Committees**

United Nations and World Academy of Art and Science Welfare and Wellbeing Working Group, 2020-2021

International Network for tES-fMRI (INTF) Steering Committee, 2020-present

**National Committees**

McKnight Brain Research Foundation (MBRF) Cognitive Aging and Memory Intervention Core, Founding Co-Director, 2018-2020

MBRF McKnight Brain Aging Registry Scientific Advisory Committee, Member, 2018-present

**University/COLLEGE Committees**

UF Office of the Provost, UF Foundation Term Professorship Award Committee, 2023

UF Office of the Provost, Excellence in Assistant Professor Award Committee, 2023

ONE FLORIDA Alzheimer’s Disease Research Center Internal Advisory Committee, 2023-present

UF McKnight Brain Institute Executive Committee, 2023-present

UF Council of Research Associate Deans, 2022-present

College of Public Health and Health Professions Executive Committee, Member, 2022-present

McKnight Brain Institute Space Committee, 2022-present

Human Subject Research Process Improvement Working Group, PHHP Representative/Member, 2022-2023

College of Public Health and Health Professions Research Committee, Ex officio, 2022-present

College of Public Health and Health Professions Research Committee, Member, 2020-2022

College of Public Health and Health Professions Artificial Intelligence Committee, 2022-present

UF Health Artificial Intelligence Steering Committee, Member, 2021-2023

UF Advanced Magnetic Resonance Imaging and Spectroscopy (AMRIS) Advisory Committee, 2019-present

UF Health Diagnostics and Therapeutics Artificial Intelligence Search Committee, Co-Chair, 2021-2022

Department of Neurology CH2 Imaging Suite Design Team, Member, 2021-2022

Health Science Center Opportunity Seed Fund Translational Biomed Standing Review Committee, Member, 2019-2021

American College of Sports Medicine (ACSM) Exercise is Medicine – On Campus Committee, Member, 2020

UF RecSports Board of Directors, Member, 2018-2020

Advanced Magnetic Resonance and Spectroscopy (AMRIS) Human Neuroimaging Review Committee, Member, 2018-present

McKnight Brain Institute Trainee Enhancement Opportunity Review Committee, Chair, 2018

**DEPARTMENTal Committees**

Department of Clinical and Health Psychology Executive Committee, Member, 2021-2022

Department Representative for College Research Committee, Member, 2020-2022

Department of Clinical and Health Psychology Space Committee, Member, 2019-2020

Department of Clinical and Health Psychology Faculty Search Committee, Chair, 2019

Department of Clinical and Health Psychology Curriculum Committee, Member, 2017-2020

Department of Clinical and Health Psychology Graduate Admissions Committee, Member, 2017-2019

Department of Clinical and Health Psychology Masters Committee, Member, 2017

Clinical Neuroscience of Aging Course Development Task Force, Chair, 2014-2015

Department of Aging and Geriatric Research Education Committee, Member, 2014-2015

**PUBLICATIONS**

**214 published research products:**

162 peer-reviewed papers (64 first/senior author, Avg. journal impact: 5.59), 2 non-peer reviewed papers, 1 book, 49 book chapters: [8990 citations, h-index: 45, i10 index: 122](https://scholar.google.com/citations?user=Tj-tBykAAAAJ&hl=en)

**Peer-reviewed papers**

1. Hausman, H.K., Alexander, G., Cohen, R., Marsiske, M., DeKosky, S.T., Hishaw, G.A., O’Shea, A., Kraft, J.N., Dai, Y., Wu, S., **Woods, A.J.** tDCS reduces depression and state anxiety symptoms in older adults from the Augmenting Cognitive Training in Older Adults Study (ACT). *Brain Stimulation.* Accepted February 2024. *Impact Factor: 9.184*
2. Hardcastle, C., Kraft, J.N., Hausman, H.K., O’Shea, A., Albizu, A., Evangelista, N., Boutzoukas, E.M., Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E., DeKosky, S.T., Hishaw, G.A., Wu, S., Marsiske, M., Cohen, R., Alexander, G., **Woods, A.J.** Learning Ratio Performance on a Brief Visual Learning and Memory Test Moderates Cognitive Training Gains in Double Decision Task in Healthy Older Adults. *GeroScience*. 2024 Mar 8 <https://doi.org/10.1007/s11357-024-01115-1>. *Impact Factor:* *7.58*
3. Kraft, J.N., Indahlastari, A., Boutzoukas, E.M., Hausman, H.K., Hardcastle, C., Albizu, A., O’Shea, A., Evangelista, N., Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., DeKosky, S.T., Hishaw, G.A., Wu, S., Marsiske, M., Cohen, R., Alexander, G., Porges, E., **Woods, A.J.** The Impact of a tDCS and Cognitive Training Intervention on Task-Based Functional Connectivity. *GeroScience*. Accepted January 2024. *Impact Factor:* *7.58*
4. S Stolte, S.E., Indahlastari, A., Chen, J., Albizu, A., Dunn, A., Pedersen, S., See, K.B., **Woods, A.J.**, Fang, R. Precise and Rapid Whole-Head Segmentation from Magnetic Resonance Images of Older Adults using Deep Learning. *Imaging Neuroscience.* Accepted January 2024. *Impact Factor: pending.*
5. Lopez, F.V., O’Shea, A., Huo, Z., DeKosky, S.T., Alexander, G., **Woods, A.J.**, & Bowers, D. (In Press). Frontal-temporal regional differences in brain energy metabolism and mitochondrial function using 31P MRS in older adults. *GeroScience*. 2024 Jan 16. doi:10.1007/s11357-023-01046-3. Epub ahead of print. PMID: 38225480. *Impact Factor: 7.58*
6. Indahlastari, A., Dunn, A., Pedersen, S., Kraft, J.N., Someya, S., Albizu, A., **Woods, A.J.** Impact of Electrode Selection on Modeling tDCS in the Aging Brain. *Frontiers in Human Neuroscience*, Accepted November 2023. *Impact Factor: 2.9*
7. Waner, J.L., Hausman, H.K., Kraft, J.N., Hardcastle, C., Evangelista, N.D., O’Shea, A., Albizu, A., Boutzoukas, E.M., Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., DeKosky, S.T., Hishaw, G.A., Wu., S.S., Marsiske, M., Cohen, R., Alexander, G.E., Porges, E.C., **Woods, A.J.** Connecting Memory and Functional Brain Networks in Older Adults: A Resting-State fMRI Study. GeroScience, Accepted September 2023. *Impact Factor: 7.58*
8. Lopez, F.V., O’Shea, A., Rosenberg, J.T., Leeuwenburgh, C., Anton, S., Bowers, D., **Woods, A.J.** (2023) Frontal adenosine triphosphate markers from 31P MRS are associated with cognitive performance in healthy older adults: preliminary findings. *Frontiers in Aging Neuroscience*, <https://doi.org/10.3389/fnagi.2023.1180994> *Impact Factor: 5.75*
9. Ho, B., Gullett, J., Anton, S., Franchetti, M.K., Bharadwaj, P.K., Raichlen, D.A., Alexander, G.E., Rundek, T., Levin, B., Visscher, K., **Woods, A.J.**, Cohen, R. Associations between Physical Exercise Type, Fluid Intelligence, Executive Function, and Processing Speed in the Oldest-Old (85+). *GeroScience*, Accepted July 2023. *Impact Factor: 7.58*
10. Hausman, H.K., Alexander, G.E., Cohen, R., Marsiske, M., DeKosky, S.T., Hishaw, G.A., O'Shea, A., Kraft, J.N., Dai, Y., Wu, S., **Woods, A.J**. (2023) Primary outcome from the augmenting cognitive training in older adults study (ACT): A tDCS and cognitive training randomized clinical trial. *Brain Stimulation.* 16(3):904-917. <https://doi.org/10.1016/j.brs.2023.05.021>. PMID: 37245842; PMCID: PMC10436327. *Impact Factor: 9.184*

# Albizu, A., Indahlastari, A., Huang, Z., Waner, J., Stolte, S., Fang, R., and Woods, A.J. Machine-learning defined precision tDCS for improving cognitive function. *Brain Stimulation*, 16(3): 969-974. <https://doi.org/10.1016/j.brs.2023.05.020> *Impact Factor: 9.184*

# Indahlastari, A., Dunn, A.L., Pedersen, S., Kraft, J.N., Someya, S., Albizu, A., and Woods, A.J. The Importance of Accurately Representing Electrode Position in Transcranial Direct Current Stimulation Computational Models. *Brain Stimulation*, Accepted May 2023. *Impact Factor: 9.184*

1. Stolte, S.E., Volle, K., Indahlastari, A., Albizu, A., **Woods, A.J.**, Brink, K., Hale, M., Fang, R. DOMINO: Domain-aware Loss for Deep Learning Calibration. *Software Impacts.* Accepted February 2023. *Impact Factor: 1.139*
2. Bottari, S., Cohen, R.C., Friedman, J., Porges, E., Chen, A., Gunstad, J., **Woods A.J**., Williamson, J. Change in medial frontal cerebral metabolite concentrations following bariatric surgery. *NMR in Biomedicine*. Accepted January 2023. *Impact Factor: 4.478*
3. Langer, K., Johnson, K.J., Williamson, J.B., Gullett, J.M., Porges, E.C., Gunstad, J., Friedman, J., **Woods, A.J.**, Cohen, R.A. Resting State Network Functional Connectivity Pre- and Post-Bariatric Surgery. *Surgery for Obesity and Related Diseases.* Accepted December 2022. *Impact Factor: 3.709*
4. Hausman, H.K., Dai, Y., O'Shea, A., Dominguez, V., Fillingim, M., Calfee, K., Carballo, D., Hernandez, C., Perryman, S., Kraft, J.N., Evangelista, N.D., Van Etten, E.J., Smith, S.G., Bharadwaj, P.K., Song, H., Porges, E., Dekosky, S.T., Hishaw, G.A., Marsiske, M., Cohen, R., Alexander, G.E., Wu, S.S., & **Woods. A.J.** (2022) The Longitudinal Impact of the COVID-19 Pandemic on Health Behaviors, Psychosocial Factors, and Cognitive Functioning in Older Adults. *Frontiers in Aging Neuroscience.* Accepted October 2022. *Impact Factor: 5.75*
5. Nicholson, J.S., Hudak, E.M., Phillips, C.B., Chanti-Ketterl, M., O’Brien, J.L., Ross, L.A., Lister, J.J., Burke, J.R., Potter, G., Plassman, B.L., **Woods, A.J.**, Krischer, J., & Edwards, J.D. (2022). The Preventing Alzheimer’s with Cognitive Training (PACT) Randomized Clinical Trial. *Contemporary Clinical Trials.*Accepted October 2022. *Impact Factor: 2.226*
6. Garcia, A., Cohen, R.A., Porges, E.C., Williamson, J., & **Woods, A.J.** (2022) Functional connectivity of brain systems during semantic processing in older adults. *Frontiers in Aging Neuroscience.* Accepted September 2022. *Impact Factor: 5.702.*
7. Brunoni, A.R., Ekhtiari, H., Antal, A., Auvichayapat, P., Baeken, C., Benseñor, I.M., Bikson, M., Boggio, P., Borroni, B., Brighina, F., Brunelin, J., Carvalho, S., Caumo, W., Ciechanski, P., Charvet, L., Clark, V.P., Kadosh, R.C., Cotelli, M., Datta, A., Deng, Z., De Raedt, R., De Ridder, D., Fitzgerald, P.B., Floel, A., Frohlich, F., George, M.S., Ghobadi-Azbari, P., Goerigk, S., Hamilton, R.H., Jaberzadeh, S.J., Hoy, K., Kidgell, D.J., Zonoozi, A.K., Kirton, A., Laureys, S., Lavidor, M., Lee, K., Leite, J., Lisanby, S.H., Loo, C., Martin, D.M., Miniussi, C., Mondino, M., Monte-Silva, K., Morales-Quezada, L., Nitsche, M.A., Okano, A.H., Oliveira, C.S., Onarheim, B., Pacheco-Barrios, K., Padberg, F., Nakamura-Palacios, E.M., Palm, U., Paulus, W., Plewnia, C., Priori, A., Rajji, T.K., Razza, L.B., Rehn, E.M., Ruffini, G., Schellhorn, K., Simis, M., Skorupinski, P., Suen, P., Thibaut, A., Valiengo, L.C.L., Vanderhasselt, M., Vanneste, S., Venkatasubramanian, G., Violante, I.R., Wexler, A., **Woods, A.J.**, Zare-Bidoky, M., & Fregni, F. (2022) Digitalizing Non-Invasive Neuromodulation: Scoping Review, Process Mapping, and Recommendations from a Delphi Panel. *Clinical Neurophysiology.* Accepted August 2022. *Impact Factor: 4.861*
8. Szymkowicz, S., Taylor, W.D., **Woods, A.J.** (2022) Augmenting Cognitive Training with Bifrontal tDCS Decreases Subclinical Depressive Symptoms in Older Adults: Preliminary Findings. *Brain Stimulation.* Accepted July 2022. *Impact Factor: 8.955*
9. Kraft, J.N., Hausman, H.K., Hardcastle, C., Albizu, A., O’Shea, A., Evangelista, N.D., Boutzoukas, E.M., Van Etten, E.J., Bharadwaj, P.K., Smith, S.G., Porges, E., Hishaw, G.A., Wu, S., DeKosky, S., Alexander, G., Marsiske, M., Cohen, R., & **Woods, A.J.** (2022) Task-based functional connectivity of the Useful Field of View (UFOV) fMRI task. *Geroscience.* Accepted July 2022. *Impact Factor: 7.58*
10. Lin, T., Pehlivanoglu, D., Ziaei, M., Liu, P., **Woods, A.J.**, Feifel, D., Fischer, H., Ebner, N. (2022) Age-Related Differences in Amygdala Activation Associated with Face Trustworthiness but No Evidence of Oxytocin Modulation. *Frontiers in Psychology*. Accepted May 2022. *Impact Factor: 4.23*
11. Sood, P., Chatterjee, S.A., Skinner, J.W., Lysne, P.E., Sumonthee, C., Wu, S.S., Cohen, R.A., Rose, D.K., **Woods, A.J.**, & Clark, D.J. (2022) Somatosensory Impairment of the Feet is Associated with Higher Activation of Prefrontal Cortex During Walking in Older Adults. *Experimental Gerontology.* Accepted May 2022. *Impact Factor: 4.253*
12. Aksu, S., Uslu, A., İşçen, P., Tülay, E.E., Barham, H., Soyata, A.Z., Demirtas-Tatlidede, A., Yıldız, G.B., Bilgiç, B., Hanağası, H., **Woods, A.J.**, Karamürsel, S., Uyar, F.A. (2022) Does transcranial direct current stimulation enhance cognitive performance in Parkinson's disease mild cognitive impairment? An event-related potentials and neuropsychological assessment study. *Neurological Sciences*. Epub ahead of print. [doi: 10.1007/s10072-022-06020-z.](https://doi.org/10.1007/s10072-022-06020-z) *Impact Factor: 3.83*
13. Nolan, S.A., Cowart, H., Merritt, S., Bharadwaj, P.K., Franchetti, M.K., Raichlen, D.A., Jessup, C.J., Hishaw, G.A., Van Etten, E.J., Trouard, T.P., Geldmacher, D.S., Wadley, V.G., Alperin, N., Porges, E.S., **Woods, A.J.**, Cohen, R.A., Levin, B.E., Rundek, T., Alexander, G.E., Visscher, K.M. (2022) Validity of the NIH Toolbox Cognitive Battery in a healthy oldest-old 85+ sample. *Journal of the International Neuropsychological Society.* Accepted February 2022. *Impact Factor: 3.114*
14. Boutzoukas, E. M.(g), O’Shea, A., Kraft, J. N.(g), Hardcastle, C.(g), Evangelista, N. D.(g), Hausman, H. K.(g), Albizu, A.(g), Van Etten, E. J., Bharadwaj, P. K., Smith, S. G., Song, H., Porges, E., Hishaw, G. A., DeKosky, S. T., Wu, S., Marsiske, M., Alexander, G. E., Cohen, R., & **Woods, A. J.** (2022). Higher White Matter Hyperintensity Load Adversely Affects Pre-Post Proximal Cognitive Training Performance in Healthy Older Adults. *GeroScience*. Accepted February 2022. <https://doi.org/10.1007/s11357-022-00538-y> I*mpact Factor: 7.58*
15. Chatterjee, S.A., Seidler, R.D., Skinner, J.W., Lysne, P.E., Sumonthee, C., Wu, S., Cohen, R.A., Rose, D.K., **Woods, A.J.**, Clark, D.J. (2022) Effects of prefrontal tDCS on retention of performance gains on an obstacle negotiation task in older adults. *Neuromodulation*. Accepted February 2022 <https://doi.org/10.1016/j.neurom.2022.02.231> *Impact Factor: 3.029*
16. Hardcastle, C.(g), Hausman, H.K.(g), Kraft, J.N.(g), Albizu, A.(g), O’Shea, A., Boutzoukas, E.M.(g), Evangelista, N.D.(g), Langer, K.(g), Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E., DeKosky, S., Hishaw, G.A., Wu, S., Marsiske, M., Cohen, R., Alexander, G.E., **Woods, A.J.** (2022) Proximal Improvement and Higher-Order Resting State Network Change after Multidomain Cognitive Training Intervention in Healthy Older Adults. *GeroScience*. Accepted February 2022. <https://doi.org/10.1007/s11357-022-00535-1> *Impact Factor: 7.58*
17. Hausman, H.K.(g), Hardcastle, C.(g), Kraft, J.N.(g), Evangelista, N.D.(g), Boutzoukas, E.(g), O'Shea, A., Albizu, A.(g), Langer, K.(g), Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E., Hishaw, G.A., Wu, S. S., Dekosky, S., Alexander, G.E., Marsiske, M., Cohen, R., **Woods. A.J.** (2022). The association between head motion during functional magnetic resonance imaging and executive functioning in older adults. *Neuroimage: Reports.* Accepted February 2022. <https://doi.org/10.1016/j.ynirp.2022.100085> *Impact Factor: 7.4*
18. Hausman, H.K.(g), Hardcastle, C. (g), Albizu, A.(g), Kraft, J.N.(g), Evangelista, N.D.(g), Boutzoukas, E.M.(g), Langer, K.(g), O’Shea, A., Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E., DeKosky, S.T., Hishaw, G.A., Wu, S., Marsiske, M., Cohen, R., Alexander, G.E., **Woods, A.J.** (2021) Cingulo-Opercular and Frontoparietal Control Network Connectivity and Executive Functioning in Older Adults. *GeroScience.* Accepted December 2021. <https://doi.org/10.1007/s11357-021-00503-1> *Impact Factor: 7.58*
19. Gullett, J.M., Albizu, A., Fang, R., Loewenstein, D.A., Duara, R., Rosselli, M., Armstrong, M.J., Rundek, T., Hausman, H.K., Dekosky, S.T., **Woods, A.J.,** Cohen, R.A. (2021) Baseline neuroimaging predicts decline to dementia from amnestic mild cognitive impairment. *Frontiers in Aging Neuroscience.* Accepted November 2021. <https://doi.org/10.3389/fnagi.2021.758298> *Impact Factor: 5.75*
20. Ekhtiari, H., Ghobadi-Azbari, P., Thielscher, A., Antal, A., Li, L., Duke Shereen, A., Cabral-Calderin, Y., Keeser, D., Bergmann, T., Jamil, A., Violante, I., Almeida, J., Meinzer, M., Siebner, H., **Woods, A.J**., Stagg, C., Abend, R., Antonenko, D., Auer, T., Bächinger, M., Baeken, C., Barron, H., Chase, H., Crinion, J., Datta, A., Davis, M., Ebrahimi, M., Esmaeilpour, Z., Falcone, B., Fiori, V., Ghodratitoostani, I., Gilam, G., Grabner, R., Greenspan, J., Groen, G., Hartwigsen, G., Hauser, T., Herrmann, C.S., Juan, C., Krekelberg, B., Lefebvre, S., Liew, S., Madsen, K., Mahdavifar-Khayati, R., Malmir, N., Marangolo, P., Martin, A., Meeker, T., Mohaddes Ardabili, H., Moisa, M., Momi, D., Mulyana, B., Opitz, A., Orlov, N., Ragert, P., Ruff, C., Ruffini, G., Ruttorf, M., Sangchooli, A., Schellhorn, K., Schlaug, G., Sehm, B., Soleimani, G., Tavakoli, H., Thompson, B., Timmann, D., Tsuchiyagaito, A., Ulrich, M., Vosskuhl, J., Weinrich, C., Zare-Bidoky, M., Zhang, X., Zoefel, B., Nitsche, M., and Bikson, M. (2021) A Checklist for Assessing the Methodological Quality of Concurrent tES-fMRI Studies (ContES Checklist): A Consensus Study and Statement. *Nature Protocols.* Accepted November 2021. <https://doi.org/10.1038/s41596-021-00664-5> *Impact Factor: 13.491*
21. Valdes-Hernandez, P., Montesino-Goicolea, S., Hoyos, L., Porges, E.C., Huo, Z., Ebner, N.C., **Woods, A.J.**, Cohen, R., Riley III, J.L., Filligim, R.B., Cruz-Almeida, Y. (2021) Resting state functional connectivity patterns are associated with worst pain duration in community-dwelling older adults. *PAIN Reports.* Accepted October 2021. [doi: 10.1097/PR9.0000000000000978](https://dx.doi.org/10.1097/PR9.0000000000000978) *Impact Factor: 2.79*
22. Patel, R., Dawidziuk, A., **Woods, A.J.**, Darzi, A., Leff, D., Singh, H. (2021) Neuroenhancement of Surgeons during Robotic Suturing. *Surgical Endoscopy*. Accepted October 2021. <https://doi.org/10.1007/s00464-021-08823-1> *Impact Factor: 3.747*
23. Monnig, M.A., Gullett, J.M., Porges, E.C., **Woods, A.J.**, Monti, P.M., Tashima, K., Jahanshad, N., Thompson, P., Nir, T., Cohen, R.A. (2021) Associations of Alcohol Use, HIV Infection, and Age with Brain White Matter Microstructure, *Journal of Neurovirology*, Accepted October 2021. <https://doi.org/10.1007/s13365-021-01021-8> *Impact Factor: 3.739*
24. Alvarez-Alvarado, S.(p), Boutzoukas, E.M.(g), Kraft, J.N.(g), O’Shea, A., Indahlastari, A., Albizu, A., Nissim, N., Evangelista, N., Cohen, R., Porges, E., **Woods, A.J**. (2021) Impact of transcranial direct current stimulation and cognitive training on frontal lobe neurotransmitter concentrations. *Frontiers in Aging Neuroscience*. Accepted October 2021. <https://doi.org/10.3389/fnagi.2021.761348> *Impact Factor: 5.75*
25. Langer, K.(g), Cohen R.A., Porges E.C., Williamson J.B., **Woods A.J.** (2021) Circulating Cytokines Predict 1H-Proton MRS Cerebral Metabolites in Healthy Older Adults. *Frontiers in Aging Neuroscience*. Accepted August 2021. <https://doi.org/10.3389/fnagi.2021.690923> *Impact Factor: 5.750*
26. Hardcastle, C.(g), Hausman, H.K.(g), Kraft, J.(g), Albizu, A.(g), Evangelista, N.D.(g), Boutzoukas, E.M.(g), O’Shea, A., Langer, K.(g), Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E., DeKosky, S.T., Hishaw, G.A., Wu, S.S, Marsiske, M., Cohen, R., Alexander, G.E., **Woods, A.J.** (2021) Higher-Order Resting State Network Association with the Useful Field of View Task in Older Adults. *GeroScience.* Accepted August 2021. <https://doi.org/10.1007/s11357-021-00441-y> *Impact Factor: 7.58*

# Kraft, J.(g), Albizu, A.(g), O’Shea, A., Hausman, H.K.(g), Evangelista, N.D.(g), Boutzoukas, E.(g), Hardcastle, C.(g), Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., DeKosky, S., Hishaw, G.A., Wu, S., Marsiske, M., Cohen, R., Alexander, G.E., Porges, E., Woods, A.J. (2021) Functional Neural Correlates of a Useful Field of View (UFOV) Based fMRI Task in Older Adults. *Cerebral Cortex.* Accepted August 2021. <https://doi.org/10.1093/cercor/bhab332> *Impact Factor: 5.357*

# Indahlastari, A., Albizu, A.(g), Kraft, J.N.(g), O’Shea, A. Nissim, N.R., Dunn, A.(u), Carballo, D., Gordon, M., Taank, S.(u), Kahn, A.T.(u), Hernandez, C., Zucker, W.M., Woods, A.J. Individualized tDCS Modeling Predicts Functional Connectivity Changes within the Working Memory Network in Older Adults. *Brain Stimulation.* Accepted August 2021. <https://doi.org/10.1016/j.brs.2021.08.003> *Impact Factor: 8.995*

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**Other Publications (n=2)**

1. Knotkova, H., **Woods, A.J.,** Bikson, M., Nitsche, M. (2015). Transcranial direct current stimulation (tDCS): What pain practitioners need to know. *Practical Pain Management, 15:58-66.*
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**TEXTBOOKS AND BOOK CHAPTERS**

**Books**

1. Knotkova, H., Nitsche, M., Bikson, M., **Woods, A.J.** (2019). *Practical Guide to Transcranial Direct Current Stimulation - Principles, Procedures, and Applications.* Switzerland: Springer International Publishing. <https://doi.org/10.1007/978-3-319-95948-1>
2. **Woods, A.J.** (Assoc. Editor) *Encyclopedia of Clinical Neuropsychology, 2nd ed*. Springer. Publication Date: October 2018 <https://doi.org/10.1007/978-3-319-57111-9>

### Woods, A.J. (Assoc. Editor). *Encyclopedia of Gerontology and Population Aging,* Springer. Publication Date: July 2019 <https://doi.org/10.1007/978-3-030-22009-9>

**Book Chapters** (49 chapters, 5 first author, 40 senior author)

1. Indahlastari A(p), **Woods AJ.** (2019). Brain atrophy. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press. <https://doi.org/10.1007/978-3-030-22009-9>
2. Traeger K, **Woods AJ.** (2019). Cognitive behavioral therapy. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press. <https://doi.org/10.1007/978-3-030-22009-9>
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### Dissertation

1. **Woods, A.J.** *The consequences of hyper-arousal for human visual perception.* The George Washington University. Defended 03/05/2010, Accepted 03/15/2010, Published 05/12/2010.

**SELECTED INVITED LECTURES, SYMPOSIA, KEYNOTES, & CONFERENCE TALKS**

1. **Woods AJ.** *Keynote.*Combining Artificial Intelligence, Computational Neuroimaging and Brain Stimulation to Discover New Pathways for Primary Dementia Prevention.University of Georgia College of Public Health Inaugural Research Day, Athens, GA, USA, February 9, 2024.
2. **Woods AJ.** *Symposium.* Augmenting Cognitive Training With tDCS Decreases Subclinical Depressive Symptoms in Older Adults. North American Neuromodulation Society, Las Vegas, NV USA, January 19, 2024.
3. **Woods AJ.** *Lecture.* Leveraging Neuroimaging and Artificial Intelligence to Precision Dose Transcranial Direct Current Stimulation Interventions. Rehabilitation Science Doctoral Program Seminar Series, University of Florida, Gainesville, FL USA, November 8, 2023.
4. **Woods AJ.** *Lecture.* Leveraging Artificial Intelligence, Clinical Trials, and Neuroimaging to Precision Dose Transcranial Direct Current Stimulation. Neuroscience of the Everyday World (NEW) Conference, Boston University, Boston, MA USA, August 30, 2023.
5. **Woods AJ.** *Workshop.*NYC Neuromodulation 4 Day Training Workshop for Clinicians and Researchers. City College of New York, NYC, New York.April 17-20, 2023.
6. **Woods AJ.** *Lecture.* Principles and application of transcranial direct current stimulation.International Brain Stimulation Conference, Lisbon, Portugal. February 21, 2023.
7. **Woods AJ.** *Symposium*. Combining Neuroimaging, Computational Modeling & Machine Learning to Predict tDCS Treatment Response & Customize Dosing. International Society for Magnetic Resonance in Medicine (ISMRM) Workshop on Neuromodulation, Bethesda, MD USA, October 19, 2022.
8. **Woods AJ.** *Symposium.* Leveraging individual variability and artificial intelligence to determine dosing for tDCS. International Conference for Clinical Neurophysiology, Geneve, Switzerland, September 7, 2022.
9. **Woods AJ.** *Lecture*. Augmenting Cognitive Training in Older Adults Trial: Preliminary Results and Future Directions. Alzheimer’s Association International Conference (AAIC), San Diego, CA, USA, August 2, 2022.
10. **Woods AJ.** *Symposium.* Neuromodulation to counteract cognitive aging. NYC Neuromodulation, New York, New York USA, July 29, 2022.
11. **Woods AJ.** *Symposium.* Remediating Chronic Knee Pain in Older Adults with Transcranial Direct Current Stimulation: Pathways for AI Innovation. In: Introducing new technologies and procedures to your practice: Virtual Reality, Artificial Intelligence and other frontiers. The Florida Society of Interventional Pain Physicians and the Florida Society of Physical Medicine and Rehabilitation, Tampa, FL, USA August 15th 2021.
12. **Woods AJ.** *Symposium.* High-Throughput MRI-Based Personalization of Transcranial Direct Current Stimulation for Older Adults. North American Neuromodulation Society Annual Meeting, Orlando, FL USA, January 15th 2021.
13. **Woods AJ.** *Symposium.* Effects of Transcranial Direct Current Stimulation Paired with Cognitive Training on Functional Connectivity of the Working Memory Network in Older Adults. North American Neuromodulation Society Annual Meeting, Orlando USA, January 16th 2021.
14. **Woods AJ.** *Lecture*. Remediating age-related cognitive and physical decline with transcranial direct current stimulation (tDCS). 2020 Padua Muscle Days Conference, Padova, Italy, November 20th 2020.
15. **Woods AJ.** *Lecture*. The impact of Fermented Papaya Product (FPP) on cognitive and brain function in older adults: a pilot clinical trial. 2020 Padua Muscle Days Conference, Padova, Italy, November 19th 2020.
16. **Woods AJ.** *Symposium*.Enhancing cognition in older adults with tDCS and cognitive training. In: Updates on Transcranial Direct Current Stimulation (tDCS): Applications and Mechanisms. NYC Neuromodulation 2020 Online, April 20th 2020.
17. **Woods AJ.** *Symposium*.Neuromodulation of Cognition in Older Adults: From behavior to imaging and machine learning. NYC Neuromodulation 2020 Online, April 21st 2020.
18. **Woods AJ.** *Symposium*.Remediating working memory in older adults with tDCS and cognitive training: a pathwaw to precision medicine. International Neuropsychological Society Meeting, Denver CO, February 7th 2020.
19. **Woods AJ.** *Lecture*.A pathway to precision medicine for transcranial direct current stimulation. Pre-INS GATOR Conference. Beaver Creek, CO, February 4th 2020.
20. **Woods AJ.** *Keynote Lecture.* Leveraging neuroimaging, computational modeling and tDCS to remediate working memory decline in older adults. International Conference on Complex Medical Engineering. Dortmund, Germany, September 24th 2019.
21. **Woods AJ.** *Symposium*. Enhancing accuracy and application of individualized MRI derived computational models through 3D-capture of tES electrode positioning. IEEE EMBC. Berlin, Germany, July 27th 2019.
22. **Woods AJ**. *Symposium*. Hands on tDCS. **2019 Joint Meeting of Neuromodulation: The Science & NYC Neuromodulation. Napa, CA, October 4, 2019.**
23. **Woods, AJ**. *Lecture*. An update on the ACT Study. Annual McKnight Brain Institute Inter-Institutional Meeting. Gainesville, FL, April 11th, 2019.
24. **Woods, AJ.** *Lecture*. Hands on tDCS. International Brain Stimulation Meeting, Vancouver, BC, February 26, 2019.
25. **Woods, AJ.** *Lecture*. The functional connectivity of working memory and tDCS in older adults. Gator Pre-INS Meeting. Hunter NY, February 18, 2019.
26. **Woods AJ.** *Symposium*. Neuromodulation in Extremes of Age: Elderly. Augmenting Cognitive Training in Older Adults: a Phase III tDCS trial. NYC Neuromodulation Conference & NANS Summer Series, New York, NY, August 23, 2018.
27. **Woods AJ.** *Symposium*. Current and emerging cognitive interventions. Augmenting cognitive training with neuromodulation. 126th Annual Convention of the American Psychological Association. San Francisco, CA, USA, August 11, 2018.
28. **Woods AJ**, Bikson M, Knotkova H. *Lecture*. Transcranial Direct Current Stimulation: Principles and Outcomes. NYC Neuromodulation Conference & NANS Summer Series, New York, NY, August 23, 2018.
29. **Woods AJ**, Bikson M, Knotkova H. *Lecture*. Transcranial Direct Current Stimulation: stimulation parameters, protocols, electrodes and montages. NYC Neuromodulation Conference & NANS Summer Series, New York, NY, August 23, 2018.
30. **Woods AJ**. *Lecture*. Transcranial Direct Current Stimulation: Safety. NYC Neuromodulation Conference & NANS Summer Series, New York, NY, August 23, 2018.
31. **Woods AJ**. *Symposium*. Current and emerging cognitive interventions. Augmenting cognitive training with neuromodulation. 126th Annual Convention of the American Psychological Association. San Francisco, CA, USA, August 11, 2018.
32. **Woods AJ**, Bikson M, Knotkova H. *Lecture*. Transcranial Direct Current Stimulation: an introduction. International Neuroergonomics Conference. Philadelphia, PA. June 27, 2018.
33. **Woods AJ**. *Lecture*. Transcranial Direct Current Stimulation: principles, mechanisms and targeted outcomes. International Neuroergonomics Conference. Philadelphia, PA. June 27, 2018.
34. **Woods AJ**, Bikson M, Knotkova H. *Lecture*. Transcranial Direct Current Stimulation: stimulation parameters, protocols, electrodes and montages. International Neuroergonomics Conference. Philadelphia, PA. June 27, 2018.
35. **Woods AJ**. *Lecture*. Transcranial Direct Current Stimulation: Safety. International Neuroergonomics Conference. Philadelphia, PA. June 27, 2018.
36. **Woods AJ.** *Symposium.* Augmenting Cognitive Training in Older Adults: a Phase III tDCS trial. International Learning and Memory Conference. Huntington Beach, CA, USA, April 20, 2018.
37. **Woods AJ.** *Lecture.* Augmenting Cognitive Training in Older Adults: a Phase III tDCS and Cognitive Training Trial. Annual McKnight Inter-Institutional Meeting. Birmingham, AL, USA, April 6, 2018.
38. **Woods AJ.** *Symposium.* Functional Neural Mechanisms of tDCS-related Working Memory Improvements in Older Adults. International Neuropsychological Society. Washington, DC, USA, March 16, 2018.
39. **Woods AJ.** *Lecture.* Clinical applications of tDCS in the aging population. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018
40. **Woods AJ.** *Symposium.* Continuum of Care from Wearables to Non-Invasive Neuromodulation. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018
41. **Woods AJ.** *Lecture.* Hands on tDCS and TMS. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018
42. **Woods AJ.** *Lecture.* Augmenting Cognitive Training in Older Adults: a Phase III tDCS trial. New Mexico Clinical Neurostimulation Meeting 2017. Albaquerquie, NM, USA, October 5, 2017.
43. **Woods AJ.** *Symposium.*Pain and tDCS: Clinical trials**.** American Pain Society, Pittsburgh, PA, USA, May 19, 2017.
44. **Woods AJ.** *Lecture.* Successful cognitive aging. Penney Farms Annual Geriatic Medicine Symposium. Lunch Keynote Lecture. Penney Farms, FL, USA, April 21, 2017.
45. **Woods, A.J.** *Lecture.* Clinical and research applications of transcranial direct current stimulation. Department of Clinical and Health Psychology ANST Brown Bag. University of Florida, Gainesville, FL, USA, March 24, 2017.
46. **Woods, A.J.** *Lecture.* Research uses of tDCS. International Brain Stimulation, Barcelona, Spain, March 9, 2017.
47. **Woods AJ.** *Symposium.* Combating cognitive aging and dementia with transcranial direct current stimulation (tDCS). International Neuropsychological Society. New Orleans, LA, USA, February 2, 2017.
48. **Woods AJ.** *Symposium.* Is Neuromodulation Better Than Drugs? Prospects for tDCS in Age-related Cognitive Decline. NYC Neuromodulation 2017. New York, NY, USA, January 14, 2017.
49. **Woods AJ.** *Lecture.* Practical Demo: Modern tDCS/tACS Methodology. NYC Neuromodulation 2017. New York, NY. January 13, 2017.
50. **Woods AJ.** *Lecture.* Technical Aspects of tES: Hardware, Devices, and Procedures. NIMH Transcranial Electrical Stimulation (tES): Mechanisms, Technology and Therapeutic Applications. Bethesda, MD, USA, September 29, 2016.
51. **Woods AJ.** *Symposium.* Neural correlates of tDCS effects on working memory: implications for adjunctive cognitive therapies. 6th International Conference on Transcranial Brain Stimulation. Gottingen, Germany, September 9, 2016.
52. **Woods, A.J.** The role of neuroinflammation in cognitive aging. University of Florida Clinical Translational Science Institute Research Day, Gainesville, FL, USA, June 24, 2016.
53. **Woods AJ**. *Lecture.* The impact of neuroinflammation on human cognitive aging. The McKnight Brain Institute Site Visit. UF, Gainesville, FL. Feb 17, 2016.
54. **Woods, A.J.** Expertise, Decision-Making, and Spatial Bias in American Football: an aging and expertise story. GATOR Pre-INS Conference*.* Water Valley, NH, USA, February 1, 2016.
55. **Woods, A.J.** Updates on cognitive training and tDCS clinical trials in cognitive aging. Updates on Clinical Trials in tDCS Symposium, City College of New York, New York, NY, USA, November 14, 2015.
56. **Woods, A.J.** Updates on cognitive training and tDCS clinical trials in cognitive aging. Updates on Clinical Trials in tDCS Symposium, City College of New York, New York, NY, USA, November 14, 2015.
57. **Woods, A.J.** Preliminary data from the STIMULATED BRAIN study: a novel transcranial direct current stimulatgion intervention for cognitive aging. 3rd International GABA MRS Symposium, Orlando, FL, USA, October, 15, 2015.
58. **Woods, A.J.** A Novel Non-Invasive Intervention for Cognitive Aging. University of Florida Clinical Translational Science Institute Research Day, Gainesville, FL, USA, June 12, 2015.
59. Porges E.C., **Woods, A.J.**, Bryant V.E., Cohen, R.A. The effect of current alcohol consumption on cognitive impairment varies as a function of HIV status and age. Research Society on Alcoholism, invited symposium, San Antonio, TX, USA, June 20, 2015.
60. **Woods, A.J.**, Bryant, V., Sacchetti, D., Gervits, F., Hamilton, R. Effects of electrode drift on transcranial direct current stimulation. *International* *Brain Stimulation Conference.* Singapore, March 5, 2015.
61. **Woods, A.J.**, Bikson, M. Research Uses of tDCS. Invited Symposium, *International* *Brain Stimulation Conference.* Singapore, March 5, 2015.
62. **Woods, A.J.**, Bryant, V., Sacchetti, D., Gervits, F., Hamilton, R. Reducing variability of effects in transcranial direct current stimulation. *Pre-INS Gator Meeting.* Keystone, CO, USA, February 3, 2015.
63. **Woods, A.J.** Reducing alcohol abuse in people living with HIV using tDCS. Annual Southeastern HIV and Alcohol Research Consortium (SHARC) Conference. Gainesville, FL, USA, January 28-29, 2015.
64. **Woods, A.J.** Effects of electrode drift and localization on transcranial direct current stimulation. *NYC Neuromodulation 2015.* New York, NY, USA, January 11, 2015.
65. **Woods, A.J.** Combating Cognitive Aging with Non-Invasive Brain Stimulation. University of Florida Institute on Aging Annual Spotlight on Aging Research Special Lecture, Gainesville, FL, USA, June 4, 2014.
66. **Woods, A.J.** Transcranial Direct Current Stimulation. Cognitive Aging and Memory Clinical Translational Research Program 2nd Annual Extrernal Advisory Board Meeting, Gainesville, FL, USA, June 2, 2014.
67. **Woods, A.J.** Neuroimaging, Electrophysiology, and Neurmodulation. Cognitive Aging and Memory Clinical Translational Research Program 2nd Annual Extrernal Advisory Board Meeting, Gainesville, FL, USA, June 2, 2014.
68. **Woods, A.J.** Enhancing Cognitive Function using Transcranial Direct Current Stimlation. The Mcknight Brain Institute Multi-Institution Meeting, Gainesville, FL, USA, March 27, 2014.
69. **Woods, A.J.** The alert brain: the role of brain alerting mechanisms in cognitive function. Oak Hammock Institute on Higher Education Lecture Series, Gainesville, FL, USA, March 5, 2014.
70. **Woods, A.J.** Space, Time, and Causality in the Human Brain. GATOR Pre-INS Conference, British Columbia, Canada, February 11, 2014.
71. **Woods, A.J.** Multimodal Combination of fMRI and tDCS. NYC Neuromodulation Conference 2013, New York, NY, USA, November 22, 2013.
72. **Woods, A.J.** Exploring Structure-Function Relationships Using Parallel BOLD fMRI and Transcranial Direct Current Stimulation. Southeastern Magnetic Resonance Imaging Conference 2013, Tallahassee, Florida, USA, October 11-13, 2013.
73. **Woods, A.J.** Space, Time, and Causality in the Human Brain. Neuroscience Lecture Series, University of Florida, Gainesville, FL, USA, September 26, 2013.
74. **Woods, A.J.** Space, Time, and Causality: a tDCS study. Neuroscience Chalk Talks, Children’s Hospital of Philadelphia, Philadelphia, PA, USA, February 28, 2013.
75. **Woods, A.J.** Brain Arousal Systems: Treating Spatial Neglect following Stroke. Laboratory for Cognition and Neural Stimulation, University of Pennslyvania, Philadelphia, PA, USA, January 14, 2013.
76. **Woods, A.J.** Space, Time & Causality in the Brain. Psychology Lecture Series, University of Maryland Baltimore County, Baltimore, MD, USA, December 17, 2012.
77. **Woods, A.J.** Brain Arousal Systems: The Gateway to Conscious Behavior. Institute of Aging Center for Aging and Memory Lecture Series, University of Florida, Gainesville, FL, USA, December 13, 2012
78. **Woods, A.J.** Space, Time & Causality in the Human Brain. Psychology Lecture Series, Texas Christian University, Ft. Worth, TX, USA, November 30, 2012.
79. **Woods, A.J.** Space, Time & Causality in the Brain. Experimental Psychology Lecture Series, Texas Tech University, Lubbock, TX, USA, November 23, 2012.
80. **Woods, A.J.** Space, Time & Causality in the Brain. Neuroscience Lecture Series, Bowdoin College, Brunswick, ME, USA, November 12, 2012.
81. **Woods, A.J.** Space, Time, & Causality: a tDCS study. International Research Training Group Winter School (IRTG 1328, Shizophrenia and Autism), Aachen University, Aachen, Germany, November 3, 2012.
82. **Woods, A.J.** Perceptual Bias in Athletic Decision-Making. Annual Colonial Athletic Association NCAA Football Officiating Clinic, Philadelphia, PA, USA, July 20, 2012.
83. **Woods, A.J.** Space, Time, and Causal Inference: a tDCS study. Laboratory for Cognition and Neural Stimulation, University of Pennslyvania, Philadelphia, PA, USA, May 7, 2012.
84. **Woods, A.J.** The Role of the Right Parietal Cortex in Causal Inference. Neuroscience Chalk Talks, Children’s Hospital of Philadelphia, Philadelphia, PA, USA, March 22, 2012
85. **Woods, A.J.** Causal Event Perception Across the Lifespan. Intellectual and Developmental Disabilities Research Center Trainee Lecture Series, Children’s Hospital of Philadelphia, Philadelphia, PA, USA, March 10, 2011.
86. **Woods, A.J.** Judging a Book by Its Cover: Causality and Surface Features. Center for Cognitive Neuroscience Lecture Series, University of Pennsylvania, Philadelphia, PA, USA, January 26, 2011.
87. **Woods, A.J.** Cortical Arousal and Visual Perception. Cognitive Neuroscience Brown Bag Lecture Series, Department of Psychology, The George Washington University, Washington, DC, USA, March 21, 2009.
88. **Woods, A.J.** The Various “Perceptions” of Distance: an alternative view of how effort influences judgments of absolute distance. Cognitive Neuroscience Brown Bag Lecture Series, Department of Psychology, The George Washington University, Washington, DC, USA, February 16, 2008.
89. **Woods, A.J.**, Philbeck, J.W. Perceived Effort Recalibrates Verbal Distance Judgments Without Altering Perceived Distance, *Object Perception Attention and Memory (OPAM) Conference,* Long Beach, CA, USA. November 15, 2007.
90. **Woods, A.J.** Does Physiological Effort Influence Perceived Distance? Cognitive Neuroscience Brown Bag Lecture Series, Department of Psychology, The George Washington University, Washington, DC, USA, April 21, 2007.
91. **Woods, A.J.** Neglect and Neural Mechanisms of Magnitude Estimation. Cognitive Neuroscience Brown Bag Lecture Series, Department of Psychology, The George Washington University, Washington, DC, USA, December 5, 2005.
92. Mennemeier, M., **Woods, A.J.** Hemispheric Laterality of Magnitude Estimation. Behavioral Neurology/Neuroscience Laboratory Meeting (PI: Anjan Chatterjee, M.D.), Department of Neurology, University of Pennsylvania, Philadelphia, PA, USA, October 29, 2004
93. **Woods, A.J.**, Mark, V.W. Routine Cognitive Assessment of Elderly “Non-Neurological” Rehabilitation In-patients: surprising findings. Center for Aging Scientific Lecture Series, University of Alabama at Birmingham, Birmingham, AL, USA, January 23, 2004.
94. **Woods, A.J.** Cognitive Impairment in “Non-Neurologic” Elderly Rehabilitation Inpatients: fact or fiction? Department of Physical Medicine and Rehabilitation Grand Rounds, University of Alabama at Birmingham, Birmingham, AL, USA, January 16, 2004.
95. **Woods, A.J.** Cognitive Impairment in “Non-Neurologic” Rehabilitation Inpatients. National Institute of Health Training Seminar, Department of Physical Medicine and Rehabilitation, University of Alabama at Birmingham, Birmingham, AL, USA, April 30, 2003.

**TEACHING EXPERIENCE**

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| Position | Course | Institution/Organization | Year |
| Director | Special Topics in Neuromodulation (CLP 7934) Spring | University of Florida | Spring 2022 |
| Director | Clinical and Cognitive Neuroscience Methods and Theory (PSB 6115c) Fall | University of Florida | Fall 2021 |
| Director | Special Topics in Neuromodulation (CLP 7934) Summer | University of Florida | Summer 2021 |
| Director | NYC Transcranial Direct Current Stimulation 5-Day Fellowship | City College of New York/MJHS Institute for Advanced Palliative Care | 2019 |
| Director | Transcranial Direct Current Stimulation 1-Day Workshop | Napa Neuromodulation Joint Meeting | 2019 |
| Director | NYC Transcranial Direct Current Stimulation 5-Day Fellowship | City College of New York/MJHS Institute for Advanced Palliative Care | 2018 |
| Director | Clinical and Cognitive Neuroscience Methods and Theory (CLP 7934) Fall | University of Florida | Fall 2018 |
| Director | New Mexico tDCS Workshop | University of New Mexico | October 2017 |
| Director | Clinical and Cognitive Neuroscience Methods and Theory (CLP 7934) Fall | University of Florida | Fall 2017 |
| Director | NYC Transcranial Direct Current Stimulation 5-Day Fellowship | City College of New York/MJHS Institute for Advanced Palliative Care | 2017 |
| Director | Clinical Neuroscience of Aging(GMS 6771) Fall and Summer | University of Florida | Summer 2016 |
| Director | Clinical Neuroscience of Aging(GMS 6771) Fall and Summer | University of Florida | Fall 2015 |
| Director | NYC Transcranial Direct Current Stimulation 5-Day Fellowship | City College of New York/MJHS Institute for Advanced Palliative Care | 2016 |
| Co-Director | Clinical and Translational Science Institute Student Seminar Course (GMS 6893) Fall | University of Florida | Fall 2015 |
| Director | NYC Transcranial Direct Current Stimulation 5-Day Fellowship | City College of New York/MJHS Institute for Advanced Palliative Care | 2015 |
| Director | Transcranial Direct Current Stimulation 1-Day Workshop | Singapore | 2015 |
| Director | Transcranial Direct Current Stimulation 2-Day Workshop | City College of New York | 2015 |
| Director | UF Transcranial Direct Current Stimulation 2-Day Workshop | Gainesville, FL | 2014 |
| Co-Director | Clinical and Translational Science Institute Student Seminar Course (GMS 6893) Fall | University of Florida | 2014 |
| Director | Transcranial Direct Current Stimulation 2-Day Workshop | City College of New York | 2013 |
| Co-Director | Clinical & Translational Research Practicum (GMS 6845) Spring | University of Florida | 2013-2014 |
| Director | Transcranial Direct Current Stimulation Practical Course | NYC Neuromodulation Conference 2013 | 2013 |
| Instructor | Penn Neuroscience Boot Camp: Brain Arousal | University of Pennsylvania | 2012 |
| Instructor | Memory & Cognition | George Washington University | 2010 |
| Instructor | Cognitive Neuroscience | George Washington University | 2009 |
| Instructor | Memory & Cognition | George Washington University | 2009 |

**CURRENT AND FORMER AFFILIATIONS**

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| Institution | Department/College/Center | Position | Years |
| University of Florida | Center for Cognitive Aging and Memory Clinical Translational Research  | Director | 2023-present |
| University of Florida | Cognitive Aging and Memory Clinical Translational Research Program | Program Director | 2023-present |
| University of Florida | Department of Clinical and Health Psychology | Full Professor | 2023-present |
| University of Florida | College of Public Health and Health Professions | Associate Dean for Research | 2022-present |
| University of Florida | Department of Clinical and Health Psychology | Associate Chair for Research | 2021-2022 |
| University of Florida | Department of Clinical and Health Psychology | Department Area Head, Cognitive and Emotion Neuroscience Area | 2020-2022 |
| University of Florida | Center for Cognitive Aging and Memory Clinical Translational Research  | Associate Director/Acting Director | 2020-2023 |
| University of Florida | Department of Clinical and Health Psychology | Associate Professor | 2019-2023 |
| University of Florida | Department of Clinical and Health Psychology | Assistant Professor | 2016-2019 |
| University of Florida | Center for Cognitive Aging and Memory Clinical Translational Research  | Assistant Director | 2014-2020 |
| University of Florida | Cognitive Aging and Memory Clinical Translational Research Program | Assistant Program Director | 2014-2023 |
| University of Florida | Department of Aging and Geriatric Research | Assistant Professor | 2013-2016 |
| University of Pennsylvania, Philadelphia, PA | Department of Neurology/Center for Cognitive Neuroscience | Post-Doctoral Fellow | 2010-2013 |
| The George Washington University, Washington, DC | Department of Psychology/Cognitive Neuroscience | PhD Graduate Student/ Instructor | 2005-2010 |
| University of Arkansas for Medical Sciences, Little Rock, AR | Department of Neurobiology & Developmental Sciences | Lab Manager/ Research Associate | 2004-2005 |
| University of Alabama at Birmingham, Birmingham, AL  | Department of Physical Medicine & Rehabilitation | Research Assistant  | 2000-2004 |