

CURRICULUM VITAE University of Florida

PERSONAL INFORMATION:

Name: Adam J. Woods, PhD
Citizenship: USA

RANK/TITLE: Associate Professor, UF Preeminence Term Professor
Assistant Director, Center for Cognitive Aging & Memory (CAM)
Director, CAM Neurophysiology & Neuromodulation Core
Director, CAM Clinical Trial Core
Co-Director, CAM Neuroimaging Core
Director, Woods Neuromodulation Lab
Co-Director, MBRF Cognitive Aging and Memory Intervention Core
Departments: Clinical and Health Psychology (Primary), Neuroscience (Joint)
Institute: McKnight Brain Institute
College: Public Health and Health Professions
Address: University of Florida
1225 Center Drive, Office 3133
Gainesville, FL 32610
E-mail: ajwoods@php.ufl.edu
Office: (352) 294-5842

EDUCATION:

<u>Institution</u>	<u>Major/Focus</u>	<u>Degree/Position</u>	<u>Years</u>
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 & METHODS:

Cognitive aging, attention/speed of processing, working memory, neuroplasticity/neuromodulation, non-invasive brain stimulation, clinical translational neuroscience

RESEARCH METHODS:

Clinical trials, structural and functional magnetic resonance imaging, proton and phosphorous magnetic resonance spectroscopy, diffusion weighted imaging, human electrophysiology, event-related potentials, non-invasive brain stimulation, transcranial direct current stimulation (tDCS), transcranial alternative current stimulation (tACS), transcranial magnetic stimulation (TMS), near-infrared photobiomodulation

RESEARCH SYNOPSES:

Cognitive Aging and Dementia: 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 in light of our rapidly aging population. There are 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 and electrophysiology recording, this work not only identifies mechanisms underlying improvement, but also provides information important for further optimizing treatment effectiveness. This work has recently led to funding of the largest and only Phase III randomized clinical trial for tDCS as an adjunctive method with cognitive training to combat cognitive aging and slow dementia onset. In addition, my lab is funded to investigate mobility enhancement in older adults, treat chronic knee osteoarthritic pain, and enhance working memory using a variety of non-invasive electrical brain stimulation methods in Phase II trials. At present, my lab maintains over 7 million dollars in NIH funding to investigate non-invasive brain stimulation-related interventions. In addition, my lab also maintains funding to investigate a variety of non-pharmacological compounds in a Phase II pilot clinical trials to investigate novel methods for improving brain metabolism, neuroplasticity, and cognitive function. This work capitalizes on novel methods for imaging mitochondrial function and cerebral energy metabolism in the brain, as well as state of the art diffusion-weighted and functional imaging methods. Collectively, my work aims to slow or reverse the effects of cognitive aging and slow the onset of dementia using non-invasive and minimally invasive approaches. In addition, the extension of my work to chronic pain and mobility decline in older adults represents an exciting new arm of my intervention work.

Neuroplasticity: Over the past decade, my work has focused on identifying and implementing novel methods for alteration of the neuroplastic response of brain tissue. This work started with my early work in basic science approaches to alteration of brain response using peripheral sensory stimulation to alter brain arousal systems to alter attention and treat disorders like spatial neglect. This approach proved transient without lasting impact to beyond 10-20 minutes. Transitioning to more direct approaches of neuromodulation that had potential for lasting impact on the response of brain tissue, I began working with transcranial magnetic stimulation and transcranial direct current stimulation (tDCS) methods. Between these methods, tDCS proved to have the better safety profile and the greatest potential for easy deployment and application in a variety of contexts, both basic science and clinical research oriented. Over the past 8 years, I have carried out a series of complementary studies investigating the potential for alteration of neuroplastic response in brain tissue through tDCS as a means for altering cognitive function in the domains of working memory, speed of processing and decision-making. This basic research provided the impetus for initial investigation of clinical translational applications of tDCS. My work has demonstrated that applying tDCS in the context of an ongoing learning paradigm (e.g., cognitive training, novel learning paradigms, etc.) significantly enhances the overall outcomes for training and transfer of training gains. Based on a series of pilot trials, my lab has demonstrated transfer effect sizes of Cohen's d 1.2 pre to post 2-week intervention, with effect sizes of .8 maintained 3 months after intervention. My lab's work to investigate the neural mechanisms of change in learning using fMRI provides evidence of not only decreased functional expenditure of oxygenated hemoglobin, but also increased connectivity within task-based networks trained during intervention. Further still, using GABA-MEGAPRESS 1H MRS, our work demonstrates significant augmentation of GABA+ levels in stimulated cortices as a result of adjunctive training+tDCS intervention compared to sham-tDCS+training, providing an indirect metric of change in the neuroplastic response of brain tissue targeted during intervention. Collectively, this work has led to NIH funding of several clinical trials using tDCS as both an adjunctive and stand-alone intervention to modulate neuroplasticity to impact cognitive function, chronic pain, and other disease symptoms thought to stem from alterations in the neuroplastic behavior of brain networks. This work in my lab serves as a key example of bench to bedside translation of research.

ONGOING RESEARCH SUPPORT**PRINCIPAL INVESTIGATOR**

NIA R01AG054077 (Woods/Cohen/Marsiske; MPIs) 09/01/16-04/31/21

National Institutes of Health

\$5,778,764

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; Administrative Coordinating Center PI; UF Site PI (Overlap covered by K01AG050707-A1)

NIA 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 U01AG062368 (Edwards; PI) 09/30/18-05/31/20

\$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

NIMH R21MH112206 (Woods/Ding, MPIs) 1/15/18-/12/31/19

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

McKnight Brain Research Foundation (Woods/Bowers, MPIs) 05/1/18-04/31/20

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

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

McKnight Brain Research Foundation

\$114,164

July 1, 2019

Woods AJ/ CV

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

CO-PRINCIPAL INVESTIGATOR

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

CO-INVESTIGATOR

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 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

NIMH RF1MH114290-01 (Sadlier; PI) 07/19/17-07/18/21
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 (overlap covered by K01)

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 (overlap covered by K01)

UF Cancer and Aging Initiative (Lyon/Cohen, Co-PIs)
University of Florida \$100,000
Neuroinflammation and Cognitive Dysfunction in Older Women with Breast Cancer

July 1, 2019

Woods AJ/ CV

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 (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

MENTORSHIP-BASED FUNDING

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

CONSULTANT

NIH R01AG058724, 09/01/18 to 08/31/24, Treating mild cognitive impairment using high definition transcranial direct current stimulation. Dr. Woods serves as an expert consultant for the tDCS and neuroimaging aims of the aforementioned R01 awarded to Dr. Benjamin Hampstead at University of Michigan.

Supplement to NIH R01MH111896, 06/01/18 to 08/31/19, A toolbox to control and enhance tDCS spatial precision. Dr. Woods serves as an expert consultant for the aging, tDCS, and neuroimaging aims of the awarded one-year supplement to the aforementioned R01 awarded to Dr. Marom Bikson at City College of New York.

YB-STPS1801, A pilot study of home-delivered non-invasive neurostimulation to evaluate improvement in mood and symptom distress in the elderly. Dr. Woods serves as an expert consultant for the aging and tDCS aims of this project awarded to Dr. Helena Knotkova at the Metropolitan Jewish Health System Institute for Innovations in Palliative Care in New York.

OTHER SUPPORT

L30 AG051178 (Woods; PI) 07/01/15-06/31/19

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

FUNDING RELINQUISHED AS A RESULT OF K01 FUNDING

NIAAA U01AA020797 (Cook/Cohen; MPIs) 09/01/16-08/31/21

National Institutes of Health

\$6,754,920

Effects of experimentally-induced reductions in alcohol consumption on brain, cognitive, and clinical outcomes and motivation for changing drinking in older persons with HIV infection

The goal of this study is to investigate the longitudinal neural and cognitive consequences of heavy alcohol consumption in persons living with HIV using neurocognitive and neuroimaging before and after a contingency management based alcohol intervention.

Role: Co-I (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

NIBIB U54EB020403 (Thompson; PI)

09/29/14-09/30/18

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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.

Role: Co-I (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

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 (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

NIAAA P01AA019072 (Monti; PI) Renewal

09/1/15-08/31/20

National Institutes of Health

\$7,499,996

Alcohol and HIV: Biobehavioral Interactions and Intervention

The goal of this study focuses on the interactive effects of HIV and alcohol use on metabolic-vascular disturbances underlying brain dysfunction.

Role: Co-I (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

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 (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

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 (Neuroimaging expertise/analyses) (Effort reduced to 0% as of 9/30 due to K01AG050707-A1)

COMPLETED RESEARCH SUPPORT

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

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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		
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		
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		

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- NIA K99AG048762 (Fazeli; PI) 09/15/14-05/31/16 \$1,712,409
National Institutes of Health
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 \$35,593
Fund to Cure Stroke
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 \$200,234
NIH & Clinical Translational Science Institute KL2 Career Award
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

ACADEMIC AWARDS & HONORS:

- 2019 Tenure, University of Florida
- 2018-2020 University Preeminence Term Professorship, University of Florida, College of Public Health and Health Professions
- 2017-2018 NIH Loan Repayment Program Recipient, Funding Agency: National Institute on Aging
- 2016-2021 NIA K01 Career Development Award Recipient

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- 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:

Society for Neuroscience
World Academy of Art and Science
Association for Psychological Science
American Psychological Association
APA Division 20: Adult Development and Aging
North American Neuromodulation Society
International Neuropsychological Society
International Neuromodulation Society

EDITORIAL BOARD:

Frontiers in Psychology: Psychology for Clinical Settings
Frontiers in Perception Science
Frontiers in Aging Neuroscience (Special Edition Editor)

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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Neurocase
PLoS ONE
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

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

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

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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: 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.

OTHER SKILLS AND QUALIFICATIONS:

Functional and Structural Magnetic Resonance Imaging

Proton and Phosphorous Magnetic Resonance Spectroscopy

Diffusion Weighted Imaging

Diffusion Weighted Imaging-based Freewater analyses

Electroencephalography (EEG) and event-related potential (ERP) methods

Statistical expertise: Multivariate, univariate, and multivariable data analysis, non-parametric statistical techniques, basic & advanced statistical modeling using SAS and SPSS Programming:

Transcranial Magnetic Stimulation (TMS) techniques

Transcranial Direct Current Stimulation (tDCS) techniques

Transcranial Alternating Current Stimulation (tACS) techniques

High-definition MRI-derived computational modeling of tDCS current density

MANUSCRIPTS:

Published peer-reviewed papers (78 papers, 28 first/last author, Avg. impact: 3.6, 2078 citations, h-index: 23, i10 index: 38)

Monnig M, **Woods AJ**, Walsh E, Martone C, Blumenthal J, Monti P, Cohen R. Cerebral metabolites on the descending limb of acute alcohol: a preliminary 1H MRS study. *Alcohol and Alcoholism*. Accepted June 2019. Impact Factor: 2.777. Citations: 0

Cohen R, Lyon D, Gullett J, Starkweather A, Porges E, **Woods AJ**, Jackson-Cook C, Lynch-Kelly D. Cytokine-associated fatigue prior to, during and post-chemotherapy for breast cancer. *Journal of Neuroimmunology*. Accepted June 2019. Impact Factor: 2.655. Citations: 0

Im J, Jeong H, Bikson M, **Woods AJ**, Unal G, Oh J, Na S, Park J, Knotkova H, Song I, Cung Y. Effects of 6-month at-home transcranial direct current stimulation on cognition and cerebral glucose metabolism in Alzheimer's disease. *Brain Stimulation*. Accepted June 2019. Impact Factor: 6.078. Citations: 0

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Mikkelsen M, Rimbault D, Bhattacharyya P, Brix M, Buur P, Cecil K, Chan K, Chen D, Craven A, Cuypers K, Dacko M, Duncan N, Dydak U, Edmondson D, Ende G, Erslund L, Forbes M, Gao F, Greenhouse I, Harris A, He N, Heba S, Hoggard N, Hsu T, Jansen J, Kangarlu A, Lange T, Lebel M, Li Y, Lin C, Liou J, Lirng J, Liu f, Long J, Ma R, Maes C, Moreno-Ortega M, Murray S, Noah S, Noeske R, Noseworthy M, Oeltzschner G, Porges E, Prisciandaro J, Puts N, Roberts T, Sack M, Sailasuta N, Saleh M, Schallmo M, Simard N, Stoffers D, Swinnen S, Tegenthoff M, Truong P, Wang G, Wilkinson I, Wittsack H, **Woods AJ**, Xu H, Yan F, Zhang C, Zipunnikov V, Zöllner H, Edden R, Barker P. Comparison of multi-vendor, single-voxel MR spectroscopy data acquired in

healthy brain at 26 sites. *Radiology*. Submitted May 2019.

Clark BC, **Woods AJ**, Clark LA, Criss C, Grooms D. The aging brain and the dorsal basal ganglia: Implications to motor function and mobility. *Advances in Geriatric Medicine and Research*. Submitted May 2019.

White T, Gonsalves M, Cohen R, Harris A, Monnig M, Nitenson A, Porges E, Lamb D, **Woods AJ**, Boyd C, Stolz E. Neocortical biomarkers of emotional health: 1H MRS correlates of agency and flexibility in young adults. *NeuroImage*. Submitted August 2018.

Manuscripts in preparation (n=8)

Nissim N, McLaren M, Richards L, O'Shea A, **Woods AJ**. Parameter complexity in tDCS. *Brain Stimulation*.

Woods, A.J., O'Shea, A., Pasternak, O., Porges, E.C., Cohen, RA. The contribution of hippocampal free-water to cognitive aging. *Cerebral Cortex*.

Bryant, V., Porges, E., Cook, B., Cohen, R., **Woods, A.J.** The relationship between age-related working memory deficits and white matter integrity. *Journal of Neuroscience*.

Knotkova, H., **Woods, A.J.** The use of transcranial direct current stimulation for pain symptom management in chronically ill patients. *Journal of Pain Symptom Management*.

Woods, A.J., Porges, E.C., Chen, H., O'Shea, A., Cohen, RA. Cerebral metabolic markers of cognitive aging. *NeuroImage*.

Porges, E.C., **Woods, A.J.**, Bryant, V., Gongvatana, A., Kahler, C.W., Monti, P.M., Williamson, J.W., Lamb, D., Cohen, RA. HIV and age accelerate neurocognitive deficits from heavy alcohol consumption. *JAIDS*.

Dotson, V., Ebner, N., Porges, E., Bryant, V., **Woods, A.J.**, Cohen, R. Subthreshold depression, symptom dimensions, and the NIH Toolbox Cognition Battery. *Archives of Clinical Neuropsychology*.

Bryant, V., Porges, E., Cook, B., Cohen, R., **Woods, A.J.** The relationship between memory complaints, HIV factors and 5-year mortality risk. *Alcoholism: Clinical and Experimental Research*.

TEXTBOOKS AND BOOK CHAPTERS:

Books

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.

Cohen, R., **Woods, A.J.** (Assoc. Editors) Topic Section: Vision. In *Encyclopedia of Clinical Neuropsychology, 2nd ed.* Springer. In press. Publication Date: October 2018

Cohen, R., **Woods, A.J.** (Assoc. Editors) Topic Section: Attention and Concentration. In *Encyclopedia of Clinical Neuropsychology, 2nd ed.* Springer. Publication Date: October 2018

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

- Indahlastari A(p), **Woods AJ**. Brain atrophy. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Traeger K, **Woods AJ**. Cognitive behavioral therapy. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Dominguez V, **Woods AJ**. Electrophysiology. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Gordon M, **Woods AJ**. Information-processing theory. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Woods C, **Woods AJ**. Intellectual disabilities. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Calfee K, **Woods AJ**. Language and communication disorders. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Perryman S, **Woods AJ**. Metamemory. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Hausman H(g), **Woods AJ**. Montreal Cognitive Assessment. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Fillingim M, **Woods AJ**. Neuromuscular system. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Boutzoukas E(g), **Woods AJ**. Neuroplasticity. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Indahlastari A(p), **Woods AJ**. Neurotransmitters. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Indahlastari A(p), **Woods AJ**. Positivity effect. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Evangelista N(g), **Woods AJ**. Neurotrophic factors and aging. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Nissim N(g), **Woods AJ**. Neurotrophic factors link to Alzheimer's disease. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Nissim N(g), **Woods AJ**. Working memory. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Albizu A(g), Indahlastari A(p), **Woods AJ**. Non-invasive brain stimulation. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- O'Shea D(g), **Woods AJ**. Prospective memory. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.
- Tewelde F(g), **Woods AJ**. Speech capability. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.

Kraft J(g), **Woods AJ**. Speed of processing. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.

O'Shea A, **Woods AJ**. White matter hyper-intensities. *Encyclopedia of Gerontology and Population Aging*. Springer New York, in press.

Nir T, Lam H, Ananworanich J, Boban J, Brew B, Chaganti J, Cysique L, Fouche J, Kuhn T, Porges E, Law M, Paul R, Thames A, **Woods AJ**, Valcour V, Thompson P, Cohen R, Stein S, Jahanshad N, the ENIGMA-HIV Working Group. (2019). Effects of diffusion MRI model and harmonization on the consistency of findings in an international multi-cohort HIV neuroimaging study. *Computational Diffusion MRI*. Springer Publishing.

Jaberzadeh, S., Martin, D., Knotkova, H., **Woods, A.J.** (2019). Methodological considerations for selection of tDCS approach, protocol and device. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Woods, A.J., Bikson, M. Electrodes – preparation, placement, methods for electrode-position determination. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Woods, A.J., Bikson, M., Chelette, K.C., Dutta, N., Gebodji, N., Stagg, C. (2019). tDCS integration with MRI, EEG, and fNIRS. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Hamilton, R., Fregni, F., Kessler, S., Loo, C., Martin, D., Knotkova, H., **Woods, A.J.** (2019). Methodological considerations for tDCS in clinical trials. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Antal, A., **Woods, A.J.**, Knotkova, H. (2019). tDCS ethics and professional conduct. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Hampstead, B., **Woods, A.J.**, Nitsche, M. (2019). tDCS for functional enhancement and symptom control in neurodegenerative diseases. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Woods, A.J., Flöel, A., Antonenko, D., Hummel, F., Knotkova, H., Hampstead, B. (2019). tDCS in aging. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Hamilton, R., Shah, P., Nitsche, M., **Woods AJ**. (2019). tDCS in cognitive neuroscience. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J., (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

Nitsche, M., Knotkova, H., Bikson, M., **Woods, A.J.** (2019). Challenges, open questions and future direction in tDCS research and applications. Knotkova, H., Bikson, M., Nitsche, M., Woods, A.J. (eds.). *Practical Guide to Transcranial Direct Current Stimulation (tDCS): Principles, Procedures and Applications*. Springer Publishing.

- Woods, A.J.**, Martin, D. Clinical Research and Methodological Aspects for tDCS Research. In Brunoni, A., Nitsche, M., Loo, C. (Eds.) *Transcranial Direct Current Stimulation in Neuropsychiatric Disorders: Clinical Principles and Management*, Springer, New York, 2016, pp. 393-404.
- Nissim, N., **Woods, A.J.** Mach Bands. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Ochoa, C., **Woods, A.J.** Visual Search. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Szymkowicz, S.M., **Woods, A.J.** Binocular Disparity. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Nissim, N., Szymkowicz, S.M., **Woods, A.J.** Edge Detection. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Nissim, N., **Woods, A.J.** Digit Vigilance Test (DVT). *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Nissim, N., **Woods, A.J.** Visual Psychophysics. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- McLaren, M., **Woods, A.J.** The Brief Test of Attention. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Sinha, P., Bowers, D., **Woods, A.J.** D2 Test of Attention. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Suryadevara, U., **Woods, A.J.** Motion Parallax. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Suryadevara, U., **Woods, A.J.** Eye Dominance. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- O'Shea, A., **Woods, A.J.** Useful Field of View. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Altmomare, L.G., **Woods, A.J.** Visual Convergence. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Richards, L., **Woods, A.J.** Posterior Cortical Atrophy. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Polejaeva, E., **Woods, A.J.** Behavioral Inattention Test (BIT). *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- Polejaeva, E., **Woods, A.J.** Auditory Selective Attention Test. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.
- O'Shea, D., **Woods, A.J.** Tests of Variables of Attention. *Encyclopedia of Clinical Neuropsychology, 2nd Ed.* Springer New York, in press.

Woods, A.J., Cohen, R.A., Pahor, M. Cognitive frailty: frontiers and challenges. Vellas, B (eds). *White Book on Frailty*. 2016. pp. 44-47. International Association on Gerontology and Geriatrics.

Aubertin-Leheudre, M., **Woods, A.J.**, Anton, S., Cohen, R., Pahor, M. Clinical frailty phenotype: a physical and cognitive point of view. Fielding, Sieber, Vellas (eds). *Frailty: Pathophysiology, Phenotype and Patient Care*. 2015. Vol. 83, pp. 55-63. Nestle Nutrition Institute

Pending Books

Woods, A.J. (Assoc. Editor). *Encyclopedia of Gerontology and Population Aging*, Springer.

Dissertation

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.

INVITED LECTURES, SYMPOSIA, & CONFERENCE TALKS:

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.

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.

Woods AJ. *Symposium*. Functional Neural Mechanisms of tDCS-related Working Memory Improvements in Older Adults. International Neuropsychological Society. Washington, DC, USA, March 16, 2018.

Woods AJ. *Lecture*. Clinical applications of tDCS in the aging population. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018

Woods AJ. *Symposium*. Continuum of Care from Wearables to Non-Invasive Neuromodulation. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018

Woods AJ. *Lecture*. Hands on tDCS and TMS. North American Neuromodulation Society. Las Vegas, NV, USA, January 11, 2018

Woods AJ. *Lecture*. Augmenting Cognitive Training in Older Adults: a Phase III tDCS trial. New Mexico Clinical Neurostimulation Meeting 2017. Albuquerque, NM, USA, October 5, 2017.

Woods AJ. *Symposium*. Pain and tDCS: Clinical trials. American Pain Society, Pittsburgh, PA, USA, May 19, 2017.

Woods AJ. *Lecture*. Successful cognitive aging. Penney Farms Annual Geriatric Medicine Symposium. Lunch Keynote Lecture. Penney Farms, FL, USA, April 21, 2017.

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.

Woods, A.J. *Lecture*. Research uses of tDCS. International Brain Stimulation, Barcelona, Spain, March 9, 2017.

Woods AJ. *Symposium*. Combating cognitive aging and dementia with transcranial direct current stimulation (tDCS). International Neuropsychological Society. New Orleans, LA, USA, February 2,

2017.

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.

Woods AJ. *Lecture.* Practical Demo: Modern tDCS/tACS Methodology. NYC Neuromodulation 2017. New York, NY. January 13, 2017.

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.

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.

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.

Woods AJ. *Lecture.* The impact of neuroinflammation on human cognitive aging. The McKnight Brain Institute Site Visit. UF, Gainesville, FL. Feb 17, 2016.

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.

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.

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.

Woods, A.J. Preliminary data from the STIMULATED BRAIN study: a novel transcranial direct current stimulation intervention for cognitive aging. 3rd International GABA MRS Symposium, Orlando, FL, USA, October, 15, 2015.

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.

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.

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.

Woods, A.J., Bikson, M. Research Uses of tDCS. Invited Symposium, *International Brain Stimulation Conference.* Singapore, March 5, 2015.

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.

- 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.
- Woods, A.J.** Effects of electrode drift and localization on transcranial direct current stimulation. *NYC Neuromodulation 2015*. New York, NY, USA, January 11, 2015.
- 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.
- Woods, A.J.** Transcranial Direct Current Stimulation. Cognitive Aging and Memory Clinical Translational Research Program 2nd Annual External Advisory Board Meeting, Gainesville, FL, USA, June 2, 2014.
- Woods, A.J.** Neuroimaging, Electrophysiology, and Neuromodulation. Cognitive Aging and Memory Clinical Translational Research Program 2nd Annual External Advisory Board Meeting, Gainesville, FL, USA, June 2, 2014.
- Woods, A.J.** Enhancing Cognitive Function using Transcranial Direct Current Stimulation. The McKnight Brain Institute Multi-Institution Meeting, Gainesville, FL, USA, March 27, 2014.
- 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.
- Woods, A.J.** Space, Time, and Causality in the Human Brain. GATOR Pre-INS Conference, British Columbia, Canada, February 11, 2014.
- Woods, A.J.** Multimodal Combination of fMRI and tDCS. NYC Neuromodulation Conference 2013, New York, NY, USA, November 22, 2013.
- 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.
- Woods, A.J.** Space, Time, and Causality in the Human Brain. Neuroscience Lecture Series, University of Florida, Gainesville, FL, USA, September 26, 2013.
- Woods, A.J.** Space, Time, and Causality: a tDCS study. Neuroscience Chalk Talks, Children's Hospital of Philadelphia, Philadelphia, PA, USA, February 28, 2013.
- Woods, A.J.** Brain Arousal Systems: Treating Spatial Neglect following Stroke. Laboratory for Cognition and Neural Stimulation, University of Pennsylvania, Philadelphia, PA, USA, January 14, 2013.
- Woods, A.J.** Space, Time & Causality in the Brain. Psychology Lecture Series, University of Maryland Baltimore County, Baltimore, MD, USA, December 17, 2012.
- 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

Woods, A.J. Space, Time & Causality in the Human Brain. Psychology Lecture Series, Texas Christian University, Ft. Worth, TX, USA, November 30, 2012.

Woods, A.J. Space, Time & Causality in the Brain. Experimental Psychology Lecture Series, Texas Tech University, Lubbock, TX, USA, November 23, 2012.

Woods, A.J. Space, Time & Causality in the Brain. Neuroscience Lecture Series, Bowdoin College, Brunswick, ME, USA, November 12, 2012.

Woods, A.J. Space, Time, & Causality: a tDCS study. International Research Training Group Winter School (IRTG 1328, Schizophrenia and Autism), Aachen University, Aachen, Germany, November 3, 2012.

Woods, A.J. Perceptual Bias in Athletic Decision-Making. Annual Colonial Athletic Association NCAA Football Officiating Clinic, Philadelphia, PA, USA, July 20, 2012.

Woods, A.J. Space, Time, and Causal Inference: a tDCS study. Laboratory for Cognition and Neural Stimulation, University of Pennsylvania, Philadelphia, PA, USA, May 7, 2012.

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

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.

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.

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.

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.

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.

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.

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.

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

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.

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.

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:

<u>Position</u>	<u>Course</u>	<u>Institution/Organization</u>	<u>Year</u>
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

July 1, 2019

Woods AJ/ CV

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:

<u>Institution</u>	<u>Department</u>	<u>Position</u>	<u>Years</u>
University of Florida	Clinical and Health Psychology, Neuroscience	Associate Professor	2019-present
University of Florida	Clinical and Health Psychology, Neuroscience	Assistant Professor	2016-2019
University of Florida	Center for Cognitive Aging and Memory	Assistant Director	2014-present
University of Florida	Aging and Geriatric Research, Neuroscience	Assistant Professor	2013-2016
University of Pennsylvania, Philadelphia, PA	Cognitive Neuroscience	Post-Doctoral Fellow	2010-2013
The George Washington University, Washington, DC	Psychology/Cognitive Neuroscience	PhD Graduate Student/ Instructor	2005-2010
University of Arkansas for Medical Sciences, Little Rock, AR	Neurobiology & Developmental Sciences	Lab Manager/ Research Associate	2004-2005
University of Alabama at Birmingham, Birmingham, AL	Physical Medicine & Rehabilitation	Research Assistant	2000-2004