#### **CURRICULUM VITAE**

**Eric Carter Porges, PhD**

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Assistant Professor

Center for Cognitive Aging & Memory (CAM)
Southern HIV and Alcohol Research Consortium (SHARC)
Department of Clinical and Health Psychology

University of Florida, Gainesville

**PERSONAL DATA**:

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**RESEARCH INTERESTS:**

Neurobiology and Cognitive Neurosciences

Mechanisms of Aging and Healthy Development Across the Life Span

Consequences of Neural Damage, including HIV and Alcohol

Advanced Magnetic Resonance Spectroscopy in Aging and Cognition

Vagus Nerve Stimulation in Aging and Cognition

Technology Development and Research Methods

## **EDUCATION and EMPLOYMENT:**

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| --- | --- | --- | --- | --- |
| **Institution** | **Major/Focus** | **Degree/Position** | **Dates** | **Hours Per Week** |
| University of Florida,Gainesville, FL | Aging Cognitive Neuroscience | Assistant Professor | Feb2016-Present |  40 |
| University of Florida,Gainesville, FL | Aging Cognitive Neuroscience | Post-Doctoral Fellow | Sept2013- Jan2016 |  40 |
| University of Chicago,Chicago, IL | Integrative Neuroscience | Doctor of Philosophy | 2008-2013 |  |
| Hampshire College,Amherst, MA  | Cognitive Science | Bachelor of Arts  | 1999-2004 |  |

**Ongoing Research Support:**

1P01AA029543-01 (Porges; PI of RC2, Cook; PI overall) 2021-2026

NIH/NIAAA $1,411,489 RC2, $6,645,672 Overall

Interventions to improve alcohol-related comorbidities along the gut-brain axis in persons with HIV infection.

The goal of this study is to identify and ultimately implement new/improved, targeted interventions that will improve outcomes related to cognitive and brain dysfunction in persons with HIV who drink alcohol.

Role: PI of RC2

R01EB023963-05 (Edden; PI) 2021-2025

NIH/NIBIB $3,157,326

Simultaneous Hadamard editing of GABA and Glutathione

This project will develop new experimental and data processing tools to allow GABA and GSH to be measured at the same time using an MRI scanner.

Role: Site-PI

1K01AA025306-01 (Porges; PI) 2017-2022

NIH/ NIAA

$840,675
Cognitive and functional deficits associated with reduced cortical GABA in HIV-infected heavy drinkers.

The goal of this study will be to investigate regional cerebral γ-aminobutyric acid (GABA) concentrations in HIV+ heavy drinkers and controls, and their contribution to cognitive flexibility.

Role: PI

R01 (Campbell-Thompson; PI) 2020-2024

NIH/NIDDK

$3,003,457 Understanding pancreatic endocrine and exocrine loss in pre-type 1 diabetes.

The goal of this study is to characterize structural changes individuals and individuals at risk for Type 1 diabetes using MRI methods.

Role: Co-I

5I01RX003140-03 MERIT award, R01 equivalent (Williamson; PI) 2019-2023

Veterans Health Administration

$1,200,000

Sleep disruption in Post-traumatic stress disorder (PTSD) is very common and hyperarousal features of PTSD have a bidirectional relationship to sleep problems. Current treatment options have limited efficacy. Further, pharmacological treatments for poor sleep quality often deleteriously affect sleep architecture and may also be addictive. We will examine the efficacy of a non-invasive treatment option called transcutaneous vagal nerve stimulation (tVNS) to improve sleep architecture, hyperarousal symptoms of PTSD, and predictors of individual differences in response (e.g., mild TBI features).

Role: Co-I

McKnight Brain Research Foundation (Williamson; PI) 2020-2022

Inter-Institutional Cognitive Aging and Memory Intervention Core Grant

Transcutaneous vagal nerve stimulation and cognitive training to enhance cognitive performance in healthy older adults.

The goal of this funding is to provide pilot data for the effect of transcutaneous vagal nerve stimulation coupled with cognitive training on global cognition in a healthy older population.

Role: Co-I

OCD Foundation 2021 Innovator Award (Williamson; PI) 2021-2024

OCD Foundation

$298,659

Pairing tVNS and graded exposure therapy to achieve remission in OCD.

This project will explore fear extinction learning using exposure therapy and tVNS in patients with obsessive compulsive disorder.

Role:Co-I

3T32AG049673-06S1 (Fillingim; PI) 2015-2022

NIH/NIA $75,663

The Integrative and Multidisciplinary Pain and Aging Research Training (IMPART) Program.

Role: Mentor

5T32AG020499-17 (Marsiske, Smith, Woods; MPI) 2003-2022

NIH/NIA $279,713

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

Role: Mentor

5T32AA025877-03 (Cook, Maldonado-Molina, Starkweather; MPI) 2020-2022

NIH/NIAAA $334,341

Translational Science Training to Reduce the Impact of Alcohol on HIV Infection

Role: Mentor

R21AG054876 (Williamson; PI) 2017-2022
NIH/NIA

$250,000

The goal of this study was to collect pilot data investigating the ability of transcutaneous vagal nerve stimulation (tVNS) to impact MCI symptoms.

Role: Co-I

R01AG049433 (Woods, Cohen & Marsiske; PIs) 2016-2021

NIH/NIA

$6,600,000

Augmenting Cognitive Training in Older Adults (ACT)

The goal of this study will be to perform the definitive multi-site RCT establishing methods for optimized CT effectiveness in older adults through mindfulness meditation stress reduction and transcranial direct current stimulation (tDCS).

Role: Co-I

U01AA020797 (Cook; PI) 2016-2022

NIH/NIAAA

$4,420,396

Continuous monitoring with wearable alcohol biosensors (SCRAM) to confirm effects of experimentally induced reductions in alcohol consumption in HIV-infected high-risk drinkers on the brain and cognition. This study examines the degree to which reductions in alcohol use via contingency management leads to improvements in cognitive and brain functioning.

Role: CO-I

R01DK099334 (Cohen; PI) 2014-2022

NIH/NIDDK

$2,663,490

Obesity and type-2 diabetes: bariatric surgery effects on brain function.

This study will delineate mechanism underlying the effects of chronic obesity on brain functioning and determine if cognitive benefits of bariatric surgery and weight loss contribute to enhanced cerebral metabolic or hemodynamic function assessed using multimodal neuroimaging methods. The contribution of post-surgical improvements in diabetes-associated insulin-glucose disturbances will also be tested. This study includes Magnetic Resonance Spectroscopy (MRS), structural MRI, functional MRI, and cerebral perfusion metrics collected prior to bariatric surgery and at 2 points after surgery.

Role: CO-I

F99/K00 (Hupfeld; PI) 2020-2022

NIH/NIA

$89,994

Cortical inhibition and mobility in older adults.

The goal of this project is to gain a greater understanding of how cortical inhibition is associated with age-related declines in mobility as measured by both gait and balance and to find neural targets for interventions to preserve mobility and prevent disability with aging.

Role: Mentor

**Pending research support:**

NIH/NIDDK (Cohen,Porges,Williamson; MPI)

$3,773,602

Obesity and type-2 diabetes: bariatric surgery effects on brain function.

The proposed R01-renewal (R01DK099334) extends our longitudinal cohort follow-up to greater than 3 years post bariatric surgery. We will determine factors contributing to gastric bypass effects (Roux-en-Y [RYGB] and gastric sleeve) on cognitive and brain function, and systemic (A1C, cytokines) and brain (magnetic resonance spectroscopy [MRS] derived measures of inflammation and neuronal integrity) outcomes. Further, in a new RYGB cohort, the cognitive, systemic and brain health consequences of anterior vagotomy and transcutaneous vagus nerve stimulation (tVNS) post-RYGB will also be determined.

Role: CO-I

NIH/NIA (Williamson; PI)

$2,375,937

Transcutaneous vagal nerve stimulation improvement of sleep and cognitive functions in mild impairment and early Alzheimer’s disease

The goal of this project is to assess therapeutic potential of tVNS for patients with MCI and AD. An expected working model with the noradrenergic system.

Role: Co-I

**Completed research support:**

NHMFL (Near; PI) 2019-2020

NSF

$15,000

Ketogenic diet induced rescue of cortical neurotransmitter and metabolic profiles in aged rodents: a proton MRS study at 11.1 Tesla

Role: CO-I

Brain Rehabilitation Research Center Pilot (Williamson; PI) 2017-2019

VAMC

Non–invasive vagal nerve stimulation modification of sleep architecture and emotion in Veterans with PSTD. The goal of this funding is to provide pilot data for the effect of transcutaneous vagal nerve stimulation on sleep quality and morning mood and cognition in patients with TBI and PTSD.

Role: Co-I

R56HL127175 (Williamson; PI) 2015-2016 NIH/NHLBI

$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

U54EB020403 (Thompson; PI) 2014-2018

NIH/NIBIB

$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

AMRIS Protocol Development Award (Porges; PI) 2017-2018

UF/AMRIS

$10,000

Funded by AMRIS, this development award will allow facilitate the development of consistent multisite GABA MRS data collection.

Role: PI

Brain Rehabilitation Research Center Pilot (Williamson; PI) 2017-2018

VA

$60,000

External autonomic nervous system modulation for the treatment of sleep in PTSD.
The goal of this study is to collect pilot data investigating the ability of transcutaneous vagal nerve stimulation (tVNS) to alleviate anxiety and sleep related PTSD symptoms.

Role: Co-I

McKnight Brain Research Foundation (Wright; PI) 2015-2018

Neuroimaging Consortium Grant

$400,000

UF Neuroimaging Consortium Cohort (Site PI: Cohen)

The goal of this project is to develop a cohort of 200 adults 85 years and older across four sites using multimodal neuroimaging and cognitive assessment – including structure MRI, DTI, and MRS, in addition to the NIH toolbox.

Role: Consultant

F31AA024060 (Bryant; PI) 2015-2018

NIH/NIA

$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: Consultant

KL2 (Porges; PI) 2016-2018

UF/CTSI $112,500

Cognitive and functional deficits associated with reduced cortical GABA in HIV-infected heavy drinkers: Potential target for clinical intervention.
The goal of this institutional K award is to investigate GABAergic contributions to cognitive flexibility in HIV+ population of heavy alcohol drinkers.

Role: PI

Internal Funding (Porges; PI) 2013-2018

University of Florida, IOA

Postdoctoral fellowship funded by the Center on Cognitive Aging and Memory.

Role: PI

UL1TR001427

$2000

NIH/NCATS

Internal voucher # RC01-001 to provide REDCap database support

Brain Rehabilitation Research Center Pilot (Williamson; PI) 2014 VA

$29,000

External autonomic nervous system modulation for the treatment of PTSD.
The goal of this study was to collect pilot data investigating the ability of transcutaneous vagal nerve stimulation (tVNS) to alleviate anxiety and sleep related PTSD symptoms.

Role: Co-I

McKnight Brain Research Foundation (Cohen; PI) 2013-2016 McKnight Brain Research Foundation

$179,414

CAM-CTRP Pilot Study Pilot Study: The ACTIVE Brain Study

The goal of this funding is to provide neuroimaging biomarkers of successful aging.

Role: Co-I

McKnight Brain Research Foundation (Cohen; PI) 2014-2016

McKnight Brain Research Foundation

$95,176

CAM-CTRP Pilot Study: Visual assessment of aging processes in the human brain.

The goal of this funding is to investigate aging related changes in visual processing and assessment in the human brain.

Role: Co-I

McKnight Brain Research Foundation (Cohen; PI) 2014-2018

McKnight Brain Research Foundation

$101,164

CAM-CTRP Pilot Study: Differential declination in attentional processes in advanced age

The goal of this funding is to identify differential change in the four major components of attentional processing using functional magnetic resonance imaging.

Role: Co-I

McKnight Brain Research Foundation (Woods; PI) 2014-2016

McKnight Brain Research Foundation

$114,164

CAM-CTRP Pilot Study: Neuromodulation using transcranial direct current stimulation to improve working memory function in healthy aging

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: Co-I

**Academic awards & honors:**

2022 Dean’s Citation Paper Award, College of Public Health and Health Professions,

University of Florida

2017 K01 awardee, NIAAA/NIH

2016 KL2 awardee, Clinical and Translational Science Institute, University of Florida

2016 Poster Award Southern HIV and Alcohol Research Consortium (SHARC) meeting.

2016 University of Florida CTSA Institutional K Scholar

2013 Postdoctoral fellowship, Center for Cognitive Aging and Memory, McKnight Brain Foundation

2012 Norman Henry Anderson Award, Department of Psychology at the University of Chicago

2012 Travel Award, University of Chicago Psychology graduate student organization

2012 Student Poster Award, Society for Psychophysiological Research

2011 Norman Henry Anderson Award, Department of Psychology at the University of Chicago

2011 Research Award, University of Chicago Psychology graduate student organization

2010 Norman Henry Anderson Award, Department of Psychology at the University of Chicago

**Trainee awards & honors:**

\* Denotes Porges as primary mentor

2023 Center for Cognitive Aging and Memory Research Day Poster award, Awarded to Destin Shortell\*

2023 T32 Pre-doctoral Fellowship in HIV & Alcohol, Southern HIV and Alcohol Research Consortium, Awarded to Jason DeFelice\*

2022 T32 Pre-doctoral Fellowship in HIV & Alcohol, Southern HIV and Alcohol Research Consortium, Awarded to Jason DeFelice\*

2022 Best Human Subjects Poster, Center for Cognitive Aging and Memory Research Day, Awarded to Jason DeFelice\*

2021 Teaching Award, Clinical and Health Psychology, Awarded to Brittany Rohl\*

2021 Cluff Aging Award, Department of Psychology at the University of Florida, Awarded to Kathleen Hupfeld for Glutathione and Aging work.

2020 F99/K00 Award, Awarded to Kathleen Hupfeld

 2020 T32 Pre-Doctoral Fellowship in HIV & Alcohol, Southern HIV and Alcohol

 Research Consortium, Awarded to Mark Britton\*

2020 Scholarship to Attend SYNChronicity Conference

Awarded to Jason DeFelice\*

 2019 T32 Pre-Doctoral Fellowship in HIV & Alcohol, Southern HIV and Alcohol

 Research Consortium, Awarded to Destin Shortell\*

**Press:**

Spectrum. (2023, January 30). *Head motion mars most fMRI results, even after correction.* [Work reported on in the Toolbox section]. Retrieved from <https://www.spectrumnews.org/news/toolbox/head-motion-mars-most-fmri-results-even-after-correction/>

Inverse. (2022, August 15). *This Lifestyle “Hack” Claims to Alleviate Anxiety. But Does it Actually Work?* [Work reported on in Mind and Body section]. Retrieved from <https://www.inverse.com/mind-body/vagus-nerve-stimulation>

New York Times. (2022, June 2). *This Nerve Influences Nearly Every Internal Organ. Can It Improve Our Mental State, Too?* [Work reported on in Science Times section]. Retrieved from <https://www.nytimes.com/2022/06/02/well/mind/vagus-nerve-mental-health.html>

UF Health Newsroom. (2022, January 18). *UF Health team receives $6.6 million to study*

*treatments to boost cognition for those with HIV.* [Press release]. Retrieved from <https://ufhealth.org/news/2022/uf-health-team-receives-66-million-study-treatments-boost-cognition-those-hiv>

Brain Health & Technology Institute. (2019, May 12). *Age-related GABA decline associated*

*with poor cognition.* [Press release]. Retrieved from <https://bhtinstitute.org/bhti-blog/2019/6/19/age-related-gaba-decline-is-associated-with-poor-cognition>

University of Florida Department of Clinical and Health Psychology. (2017, March 7). *Age-related GABA decline associated with poor cognition.* [Press release]. Retrieved from <https://chp.phhp.ufl.edu/2017/03/07/age-related-gaba-decline-is-associated-with-poor-cognition/>

Science Daily. (2017, January 17). *Age-related GABA decline associate with poor cognition.* [Press release]. Retrieved from <https://www.sciencedaily.com/releases/2017/01/170117083327.htm>

Elsevier. (2017, January 17). *Age-related GABA decline associated with poor cognition.* [Press release]. Retrieved from <https://www.elsevier.com/about/press-releases/research-and-journals/age-related-gaba-decline-is-associated-with-poor-cognition>

World Federation of Neurology. (2017, January 17). *Age-related GABA decline associated with poor cognition.* [Press release]. Retrieved from <https://wfneurology.org/news_events/arc3hived-news/2017-01-17-biological-psychiatry>

**Professional societies:**

Society for Neuroscience

Society for Social Neuroscience

Cognitive Neuroscience Society

Society for Psychophysiological Research

Research Society on Alcoholism

**Editorial boards:**

Frontiers in Psychology; Emotion Science
Frontiers in Psychology; Health Psychology

**Ad hoc reviewer:**

Neurobiology of Aging

Human Brain Mapping

Experimental Gerontology
International Journal Psychophysiology

Social Neuroscience

Developmental Review

Neuroimage

Behavioral Brain Research

Cerebral Cortex
Movement Disorders

Alcoholism: Clinical and Experimental Research

**Conferences committees**

Conference Organizer, “7th International Symposium on Advanced MRS and GABA”, Playa Del Carmen, Mexico. November 18-20, 2022

Conference Organizer, “6th International Symposium on Advanced MRS and GABA”, Playa Del Carmen, Mexico. November 18-20, 2021

Conference Organizer, “5th International Symposium on MRS of GABA”, Park City, Utah. November 18-20, 2019

Conference Organizer, “4th International Symposium on MRS of GABA”, Leuven, Belgium. September 22-23, 2017

Co-Director, Conference Organizer and Planner, “3rd International Symposium on MRS of GABA”, Hilton Orlando Lake Buena Vista, Orlando, FL. October 14-15, 2015

**Service:**

Chair of Curriculum for 3-day course (“EDITING SCHOOL”) dedicated to edited magnetic resonance spectroscopy (MRS). Covers background MRS theory, theory of editing, editable metabolites, analysis software, quantification, and practical tips on acquisition and data review. 2022

Grant Review for Israel Science Foundation (ISF) 2022

Faculty and planning committee for 3-day course (“EDITING SCHOOL”) dedicated to edited magnetic resonance spectroscopy (MRS). Covers background MRS theory, theory of editing, editable metabolites, analysis software, quantification, and practical tips on acquisition and data review. 2018 - Present

2023 Florida HIV CPR Conference (Connecting Community, Providers, & Researchers), Feb 2022 – Location TBD

Florida CPR meeting planning committee meeting, 2022 Florida HIV CPR Conference (Connecting Community, Providers, & Researchers), Sept 23rd 2022 – Online

Florida CPR Moderator of Research updates around Florida, 2022 Florida HIV CPR Conference (Connecting Community, Providers, & Researchers, Sept 23rd 2022 – Online

National Research Mentoring Network and Morehouse School of Medicine Mock Study Section for Early-Stage Investigators who are Underrepresented in Medicine, 2021

Department of Clinical and Health Psychology Curriculum Committee 2021 – Present

External Member of Qualifying Exam Committee, Department of Psychology 2021 – Present

ENIGMA Neuromodulation Working Group, tVNS subgroup Chair 2021 – Present

ENIGMA MRS Working Group member 2021 – Present

Grant Review for Developmental Grant Program at HIV Neurobehavioral Research Center (HNRC) at the University of California, San Diego (P30 MH62512), 2019

ENIGMA HIV Working Group member 2018 – Present

Faculty Search Committee, Department of Clinical and Health Psychology 2019

Leighton E. Cluff Award for Aging Research Committee 2019 – Present

UF University Information Technology Committee 2018 – 2021

UF McKnight Brain Institute Outreach and Education Committee 2017 – Present

UF Advanced Magnetic Resonance Imaging and Spectroscopy Facility, 3T facility design committee 2014-2016

 Design, planning and oversight of new Siemens 3T scanner facility

UF Advanced Magnetic Resonance Imaging and Spectroscopy Facility, Human testing resource design committee 2016-2017

 Design, planning and oversight of new human subject testing facility

Center for Cognitive Aging and Memory (CAM) behavioral and electrophysiological research space design committee 2016-2017

 Design, planning and oversight of new human subject testing facility

**Research Methods: General Areas**

 Neuroimaging (Multimodal, emphasis on MRS)
 Behavioral research methods,

 Human electrophysiology/psychophysiology and autonomic measurement

 Non-invasive vagal nerve stimulation

 Salivary hormone assays

 Analysis of Consequences of Genetic Variation

**Specific Skills and Qualifications:**

* Neuroimaging
	+ Functional magnetic resonance imaging (Task based and Resting State)
		- Statistical Parametric Mapping (SPM) (classical contrast, functional connectivity)
	+ Structural magnetic resonance imaging
		- Freesurfer
* Magnetic Resonance Spectroscopy
	+ GABA edited Magnetic Resonance Spectroscopy (MEGA-PRESS/HERMES/HERCULES)
	+ Ethanol edited Magnetic Resonance Spectroscopy (MEGA-PRESS/HERMES)
	+ Glutathione edited Magnetic Resonance Spectroscopy (MEGA-PRESS/ HERMES/HERCULES)
* Electrophysiology/ psychophysiological/ autonomic methods
	+ Heart rate variability (HRV/RSA) study design, collection analysis and interpretation
	+ Galvanic Skin Response (GSR/EDA) study design, collection analysis and interpretation
	+ Respiration study design, collection analysis and interpretation
	+ Electromyography (facial EMG) study design, collection analysis and interpretation
	+ Electroencephalography (EEG) and event-related potential (ERP) methods
* Transcutaneous Vagal Nerve Stimulation
	+ Implementation & Study design.
* Study Design & implementation
	+ Behavioral
	+ Neuroimaging study design and programing
	+ Psychophysiological/autonomic
* Stimuli presentation software programing experience
	+ E-Prime
	+ DirectRT
	+ SuperLab
* Eye tracking research design and analysis
	+ Video (Eyelink, Tobii & SMI)
	+ Electrophysiological approaches (EOG)
* Salivary Hormone ELISA assay (Cortisol & Testosterone)
* Circulating biomarkers integration into cognitive and neurophysiological research
	+ Cytokines, Neurofilament light, etc.
* Statistical expertise: Multivariate, univariate, and multivariable data analysis, non-parametric statistical techniques

**Patents, Patent Applications & Disclosures at UF:**

John Bonar Williamson, Damon Geoffrey Lamb, and Eric S. Carter Porges. "System and method for monitoring and controlling nervous system behavior using autonomic features." U.S. Patent 10,426,956, issued October 1, 2019.

Eric S. Carter Porges, Damon Lamb, Martha Campbell-Thompson, and Richard Edden. “Non-invasive diagnostic biomarker for pancreatic islet populations” US Patent 11,389,106, issued July 19, 2022.

Eric S. Carter Porges, John Bonar Williamson, and Damon Geoffrey Lamb " Augmented reality coordinated with nerve stimulation to enhance performance." Patent pending US202062960458P.

**Manuscripts:**

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|  |  |
| ***†*** | Denotes first authorship | ***‡*** | Denotes second authorship | ***§*** | Denotes senior authorship |

# Bottari, S.A., Trifilio, E.R., Janicke, D.M., Porges, E.C., Cohen, R.C., Jaffee, M.S., Williamson, J.B. (2023). Effects of sleep disturbance on trauma-focused psychotherapy outcomes in posttraumatic stress disorder: A systematic review. *Annals of the New York Academy of Sciences.*

# Langer, K., Johnson, K.J., Williamson, J.B., Gullet, J.M., Porges, E.C., Gunstad, J., Friedman, J., Woods, A.J., Cohen, R.A. (2023). Resting-state network functional connectivity before and after bariatric surgery. *Surgery for Obesity and Related Diseases*.

# Gullett, J.M., Defelice, J., Richards, V.L., Porges, E.C., Cohen, R.A., Govind, V., Salan, T., Wang, Y., Zhou, Z., Cook, R.L. (2023). Resting state connectivity in people living with HIV before and after stopping heavy drinking. *Frontiers in Psychiatry.*

# Bottari, S.A., Lamb, D.G., Porges, E.C., Murphy, A.J., Tran, A.B., Ferri, R., Jaffe, M.S., Davila, M., Hartmann, S., Baumert, M., Williamson, J.B. (2023). Preliminary evidence of transcutaneous vagus nerve stimulation effects on sleep in veterans with post‐traumatic stress disorder. *Journal of Sleep Research*.

# Monetsino-Goicolea, S., Nin, A., Gonzales, B. M., Sawczuk, N. J., Nodarse, S. L., Valdez-Hernandez, P. A., Jackson, E., […] Porges, E. C., […] & Cruz-Almeida, Y. (2023). Protocol for a pilot and feasibility randomized-controlled trial of four weeks of oral γ-amidobutyric acid (GABA) intake and its effect on pain and sleep in middle-to-older aged adults. *Contemporary Clinical Trials Communications.* 32.

# Richards, V. L., Wang, Y., Porges, E. C., Gullett, J. M., Leeman, R. F., Zhou, Z., Barnett, N. P., & Cook, R. L. (2023). Using alcohol biosensors and biomarkers to measure changes in drinking: Associations between transdermal alcohol concentration, phosphatidylethanol, and self-report in a contingency management study of persons with and without HIV. *Experimental and Clinical Psychopharmacology.*

# Bottari, S., Cohen, R., Friedman, J., Porges, E.C., Chen, A., Britton, M., Gunstad, J., Woods, A., & Williamson, J. (2023). Change in medial frontal cerebral metabolite concentrations following bariatric surgery. *NMR in Biomedicine*

# Langer, K., Johnson, K. J., Willamson, J. B., Gullett, J. M., Porges, E. C*.*, Gunstad, J., Friedman, J., Woods, A. J., & Cohen, R. A. (2022). Resting-state network functional connectivity before and after bariatric surgery. *Surgery for Obesity and Related Diseases.*

# Murphy, A. J., O’Neal, A. G., Cohen, R. A., Lamb, D. G., Porges, E. C., […] & Williamson, J. B. (2022). The Effects of Transcutaneous Vagus Nerve Stimulation on Functional Connectivity within Semantic and Hippocampal Networks in Mild Cognitive Impairment. *Neurotherapeutics.* 1-12.

# Nolin, S. A., Cowart, H., Merritt, S., McInerney, K., Bharadwaj, P. K., Franchetti, M. K., […] Porges, E.C., […] & Visscher, K. M. (2022). Validity of the NIH toolbox cognitive battery in a healthy oldest-old 85+ sample. *Journal of the International Neuropsychological Society,* 1-10.

# Gong, T., Hui, S.C.N., Zöllner, H.J., Britton, M., Song, Y., Chen, Y. […] Porges, E.C., […] & Edden, R.A.E. (2022) Neurometabolic timecourse of healthy aging. *Neuroimage.*

# *§*Shortell, D. D., Rubin, L. H., Murphy, A. J., Cohen, R. A., & Porges, E. C. (2022). The Association between Peripheral Oxytocin Levels and Depressive Symptoms in People with HIV. *Psychosomatic Medicine.* 84(8), 885-892..

# Garcia, A. Cohen, R. Porges, E.C., Williamson, J., & Woods, A. (2022) Neural activation during sematic processing in older adults*. Frontiers in Aging Neuroscience,* 14.

# Hardcastle, C., Hausman, H.K., Kraft, J.N., Albizu, A., Evangelista, N.D., Boutzoukas, E.M., […] Porges, E.C., […] & Woods, A.J. (2022) Higher-order resting state network association with the useful field of view task in older adults. *Geroscience*. 44(1), 131-145.

# Polk, R., Horta, M., Lin, T, Porges, E.C., Ojeda, M., […] & Ebner, N.C.(2022) Evaluating the neuropeptide-social cognition link in aging: The mediating role of basic cognitive skills. *Philosophical Transactions B.* 1-43.

# Hardcastle, C., Hausman, H.K., Kraft, J.N., Albizu, A. O’Shea, A., […] Porges, E.C., […] & Woods, A.J. (2022) Proximal improvement and higher-order resting state network change after multidomain cognitive training intervention in healthy older adults. *Geroscience*. 1-17

# Boutzoukas, E.M., O’Shea, A., Kraft, J.N., Hardcastle, C., Evangelista, N.D., Hausman, H.K., […] Porges, E.C., […] & Woods, A.J. (2022) Higher white matter hyperintensity load adversely affects pre-post proximal cognitive training performance in healthy older adults. *GeroScience* 1-15.

# *§*Fridberg, D.J., Wang, Y., & Porges, E.C. (2022). Examining features of transdermal alcohol biosensor readings: A promising approach with implications for research and intervention. *Alcohol Clin Exp Res*. 46: 514-516.

# Hausman, H.K., Hardcastle, C., Kraft, J.N., Evangelista, N.D., Boutzoukas, E., O'Shea, A., Albizu, A., Langer, K., Van Etten, E.J., Bharadwaj, P.K., Song, H., Smith, S.G., Porges, E.C., 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.*

# Wang Y., Ibañez G.E., Vaddiparti K., Stetten N.E., Sajdeya R., Porges E.C., Cohen R., Cook R.L. (2021) Change in marijuana use and its associated factors among persons living with HIV (PLWH) during the COVID-19 pandemic: Findings from a prospective cohort. Drug and Alcohol Dependence. 225: 1-8.

# *§* Cruz-Almeida, Y., Forbes, M., Cohen, R. C., Woods, A. J., Fillingim, R. B., Riley, J. L., 3rd, & Porges, E. C. (2021). Brain gamma-aminobutyric acid, but not glutamine and glutamate levels are lower in older adults with chronic musculoskeletal pain: considerations by sex and brain location. *Pain reports*, 6(3), e952.

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**Books:**

***†*** Frasch, M.G. and Porges, E.C. Vagus Nerve Stimulation, *Springer Neuromethods series. Under contract, est. Publication 2023*. New York, NY: Springer Science

**Book Chapters & Encyclopedia Entries:**

***†*** Porges, E.C.Autonomic Nervous System. *Encyclopedia of Gerontology and Population Aging. 2020*. New York, NY: Springer Science

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**Conference Panels:**

Panel, “Neuromodulation of Cognition in Aging and Dementia” at the “American

Psychological Association meeting.” Virtual conference. 2020

Panel Chair, “GABA ACROSS THE LIFESPAN?” at the “5th International Symposium

 on MRS of GABA.” Park City, Utah. 2019

Panel Chair, “Brain changes 1 – aging/challenging the system?” at the “4th International

 Symposium on MRS of GABA.” Leuven, Belgium. 2017

Panel Chair, “What are we measuring?” at the “4th International Symposium on MRS of

 GABA.” Leuven, Belgium. 2017

Panel Member, “What are we measuring when we measure GABA? – the view in 2015.”

 at the “Psychiatric and Clinical Research” session of the “3rd International

 Symposium on MRS of GABA.” Orlando, FL. 2015

### Invited Talks:

“The trajectory of cortical GABA levels across the life course” Presented at the “5th

 International Symposium on MRS of GABA.” Park City, Utah. 2019

“Is MRS of GABA a meaningful index of inhibition?” Invited debater at the “5th

International Symposium on MRS of GABA.” Park City, Utah. 2019

Frontal GABA Concentrations in the Oldest Old in the McKnight Brain Aging Registry:

An Update. Presented at “Eleventh McKnight Brain Research Foundation, Inter-

Institutional Meeting.” Gainesville, FL. 2019

Frontal Gamma-Aminobutyric Acid Concentrations are Associated with Cognitive

Performance in Older Adults. Presented at “Tenth McKnight Brain Research

Foundation, Inter-Institutional Meeting.” Birmingham, AL. 2018

Cognitive and functional deficits associated with reduced cortical GABA in HIV-infected

heavy drinkers. Presented at “Southern HIV and Alcohol Research Consortium:

Research Seminar.” Gainesville, FL. 2017

Cognitive and functional deficits associated with reduced cortical GABA in HIV-infected

heavy drinkers. Presented at “Brown University, Alcohol Research Center

on HIV retreat.” Providence, RI. 2017

GABAergic contributions to cognitive aging. Presented at the “McKnight Brain

Research Foundation University of Florida Site Visit.” Gainesville, FL. 2017

Vagal nerve stimulation in PTSD. Presented at “VA Brain-Heart Multisite

Consortium Meeting.” Columbia, SC. 2017

GABA+ in frontal but not sensorimotor regions is associated with chronic pain intensity

and disability in older adults. Presented at “4th International Symposium

on MRS of GABA.” Leuven, Belgium. 2017

Frontal GABA concentrations are associated with Cognitive Performance in Older

Adults. Presented at “University of Florida Department of Clinical and Health

Psychology Faculty Research Series.” Gainesville, FL. 2017

Neuroimaging and Cognitive Performance in Older Adults. Presented at Northeastern

University’s Department of Psychology colloquium series. Boston, MA. 2016

Neurotransmitter Alterations in the Aging Brain. Presented at the “41st Annual Course in

Cognitive & Behavioral Neurology: The Aging Brain” session of the “Florida

Society of Neurology Annual Meeting.” Orlando, FL. 2016

Metabolic Alterations in the Aging Brain. Delivered at the 41st Annual Course in Cognitive & Behavioral Neurology: The Aging Brain. Orlando, Florida. September 2016.

GABA concentrations, Age, & Cognition. Presented at the “McKnight Brain Research

Foundation University of Florida Site Visit.” Gainesville, FL. 2016

Frontal GABA concentrations predict cognitive function beyond age-related decline and

the extension of this research into HIV and heavy drinking. Presented at the

Twelfth GATOR pre-International Neuropsychological Society meeting.

Waterville Valley, NH. 2016

GABA concentrations, Age, & Cognition. Presented at the “Psychiatric and Clinical

Research” session of the “3rd international symposium on MRS of GABA.”

Orlando, FL. 2015

The effect of current alcohol consumption on cognitive impairment varies as a function

of HIV status and age. Presented at “Medical consequences of alcohol use

among people living with HIV” Symposium at the Research Society on

Alcoholism, San Antonio, Tx. 2015

Working group presentation; HIV, alcohol, and cognitive function/neuroimmune studies

targeting at-risk groups/biomarkers/biological processes. Presented at the

HIV/AIDS Cross-Consortia Meeting at Research Society on Alcoholism satellite

meeting, San Antonio, Tx. 2015

MoCA Performance as a function of GABA in the context of aging. Presented at the

Center for addiction research and education (CARE) Spring seminar series.

Gainesville, FL. 2015

Age related changes in cortical GABA concentrations and cognitive function. Presented

at the Eleventh GATOR pre-International Neuropsychological Society meeting.

Keystone, CO. 2015

Imagining Being the Agent of Actions That Carry Different Moral Consequences: An fMRI Study. Talk given as part of symposium: The loving brain: Integrating

diverse accounts of social affiliation. Annual meeting of the Association for

Psychological Science, Washington, DC. 2011

### Dissertation:

Porges, E.C. *Individual differences in peripheral and central physiological responses to*

*observed violence.* The University of Chicago. Successfully Defended

07/12/2013

### Abstracts:

DeFelice, J.; Cook, R.; Cohen, R.; & Porges, E.C. Age-related Differences in the

 Associations between Cannabis Use and Cognition in People Living with HIV

 (PLWH). International Neuropsychological Society Meeting. San Diego, CA.

 February 2023.

Hausman, H.K.; Kraft, J.N.; Hardcastle, C.; Evangelista, N.D.; Boutzoukas, E.M.;

O’Shea, A.; […] Porges, E.C.; […] & Woods, A.J. Adjunctive transcranial direct current stimulation and cognitive training alters default mode and frontoparietal control network connectivity in older adults. International Neuropsychological Society Meeting. San Diego, CA. February 2023.

Boutzokas, E.M.; O’Shea, A.; Kraft, J.N.; Hardcastle, C.; Evangelista, N.D.; Hausman,

H.K.; […] Porges, E.C.; […] & Woods, A.J. Higher White Matter Hyperintensity Load Adversely Affects Pre-Post Proximal Cognitive Training Performance in Healthy Older Adults. International Neuropsychological Society Meeting. San Diego, CA. February 2023.

Langer, S.; Hardcastle, C.; Kraft, J.N.; Hausman, H.K.; O’Shea, A.; Albizu, A.; […]

Porges, E.C.; […] & Woods, A.J. Factor Structure of Conventional Neuropsychological Tests and NIH-Toolbox in Healthy Older Adults. International Neuropsychological Society Meeting. San Diego, CA. February 2023.

Britton, M.; Porges, E.C. Sex-specific effects of heavy drinking on processing speed in

adults living with HIV. Research Society on Alcoholism Scientific Meeting.

Orlando, FL. June 2022.

Richards, V.; Porges, E.C. Correlations between changes in transdermal

alcohol concentration and phosphatidylethanol in a contingency management

study. Research Society on Alcoholism Scientific Meeting. Orlando, FL. June 2022.

Wang, Y.; Porges, E.C. Drinking reduction after 30-day contingency management in

persons with and without HIV: A comparison of self-report and biosensor-based

outcomes. Research Society on Alcoholism Scientific Meeting. Orlando, FL. June 2022.

Carceres, H.S.; Parpura, V.; Sims, S.A.; Ver Hoef, L.; […] Porges, E.C.; […] & Visscher.

K.M. Larger and more Dentated Hippocampi Relate to Better Episodic Memory

Performance in a Healthy Oldest-Old (85+) Sample. Georgia Tech Cognitive

Aging Conference. Atlanta, GA. April 2022.

Sims, S.A.; Faulkner, M.E.; Stewart, P; Merritt, S.; […] Porges, E.C.; […] & Visscher,

K.M. Fronto-parietal Network Segregation Predicts Maintained Cognition in the

Cognitively Healthy Oldest-old (85+): evidence for dedifferentiation. Georgia

Tech Cognitive Aging Conference. Atlanta, GA. April 2022.

Sims, S.A.; Mackey, B.; Faulkner, M.E.; Stewart, P.; […] Porges, E.C.; […] & Visscher,

K.M. Effective Clustering Strategy use in Verbal Fluency task relates to Default- Mode Network Segregation. Georgia Tech Cognitive Aging Conference. Atlanta,

GA. April 2022.

O’Neal, A.; Olshan, S.; Murphy, A.; Bottari, S.; […] Porges, E.C.; […] & Williamson, J.

Cerebral metabolite concentrations are associated with brain functional

connectivity in patients with mild cognitive impairment. International

Neuropsychology Society. New Orleans, LA. February 2022.

DeFelice, J.; Shortell, D.; Vaughn, B.; Porges, E.C. & Cook, R. Depression, anxiety, and

HIV status are associated with impairment in aspects of everyday functioning.

International Neuropsychology Society. New Orleans, LA. February 2022.

O’Neal, A.; Olshan, S.; Murphy, A.; Bottari, S.; Trifillio, E.; […] Porges, E.C.; […] &

Williamson, J. Cerebral metabolite concentrations are associated with brain

functional connectivity in patients with mild cognitive impairment. International

Neuropsychology Society. New Orleans, LA. February 2022.

Kraft, J.; Hardcastle, C.; Evangelista, N.; O’Shae, A.; Albizu, A.; […] Porges, E.C.; […] &

Woods, A.J. Efficacy of an adaptive 3-month cognitive training intervention on

proximal transfer across domains in an older adult population. International Neuropsychology Society. New Orleans, LA. February 2022.

Langer, K.; Johnson, J.; Williamson, J.; Gullet, J.; Porges, E.C.; … & Cohen, R. The

effects of obesity-related health factors on connectivity within resting state

networks. International Neuropsychology Society. New Orleans, LA. February 2022.

Sims, S.A.; Faulkner, M.; Stewart, P,; Raichlen, D.A.; Bharadwaj, P.K.; […] Porges, E.C.; […] & Visscher, K.M. System and network segregation relates to cognition

in the healthy oldest-old. International Neuropsychology Society. New Orleans,

LA. February 2022.

Boutzoukas, E.; Kraft, J.; O’Shea, A.; Albizu, A.; Evangelista, N.D.; […] Porges, E.C.;

[…] & Woods. A.J. Frontal gamma-aminobutyric acid concentration associated

with age, but not cognitive performance in healthy older adults. International

Neuropsychology Society. New Orleans, LA. February 2022.

Polk, R.; Horta, M.; Ebner, N.C.; Lin, T; […] Porges, E.C.; […] & Carter, C.S. Evaluating

the neuropeptide-social cognition link in aging: The mediating role of basic

cognitive skills. Dallas Aging and Cognition Conference. Dallas, TX. January 2022.

Hardcastle, C.; Kraft, J.; Hausman, H.; O’Shea, A.; Albizu, A.; […] Porges, E.C.; […] &

Woods, A.J. Higher-order resting state network change after 3 months of

cognitive training in healthy older adults. Society for Neuroscience. Chicago, IL.

November 2021.

Hardcastle, C.; Kraft, J.; Hausman, H.; O’Shea, A.; Albizu, A.; […] Porges, E.C.; […] &

Woods, A.J. Cognitive improvements after three months of multidomain

cognitive training intervention in healthy older adults. Southeastern

Neurodegenerative Disease Conference. Orlando, FL. September 2021.

Wang, Y.; Ibañez, G.E.; Vaddiparti, K.; Stetten, N.E.; Sajdeya, R.; Porges, E.C.; ... &

Cook, R.L. Change in marijuana use and its associated factors among persons

living with HIV (PLWH) during the COVID-19 pandemic: Findings from a

prospective cohort. Drug and Alcohol Dependence. Virtual. June 2021.

Williamson, J.; Woods, A.J.; Hampstead, B.; Warren, D.; Porges, E.C.; Lamb, D.; &

Indahlastari, A. Neuromodulation of cognition in aging and dementia. Clinical

Neuropsychologist. Philadelphia, PA. December 2020.

Bottari, S.; Lamb, D.; Porges, E.C.; Murphy, A.; Tran, A.; … & Williamson, J. Preliminary Evidence of Transcutaneous Vagal Nerve Stimulation Effects on Sleep

Microstructure in Veterans with PTSD. International Neuropsychology Society.

September 2020.

Rohl, B.; Boissoneault, J.; DeKosky, S.; Williamson, J.; Porges, E.C. Effects of

nonpharmacological sleep interventions on cognitive performance in older

adults: A systematic PRISMA review. International Neuropsychological Society.

September 2020.

Hardcastle, C.; Kraft, J. N.; Hausman, H.; O’Shea, A.; Albizu, A.; […] Porges, E.C.; […]

& Woods, A.J. Frontoparietal Control and Cingulo Opercular Resting State

Network Connectivity Predicts Useful Field of View Performance. International

Neuropsychology Society. September 2020.

Evangelista, N.D.; Dominguez, V.; O’Shea, A.; Calfee, K.; Hardcastle, C.; […] Porges,

E.C.; […] & Woods, A.J. Evidence of Potential Race/Ethnicity Bias in Montreal

Cognitive Assessment (MoCA). International Neuropsychology Society.

September 2020.

Boutzoukas, E.; O’Shea, A.; Albizu, A.; Evangelista, N.D.; Hausam, H.; […] Porges,

E.C.; […] & Woods, A.J. Effects of Frontal White Matter Hyperintensities on

Executive Function Tasks in Older Adults. International Neuropsychology

Society. September 2020.

Langer, K.; Britton, M.; Albizu, A.; Boutzoukas, E.; Evangelista, N.D.; […] Porges, E.C.;

[…] & Woods, A.J Factors Predicting Chronological vs Brain Age Discrepancies

in Healthy Older Adults. International Neuropsychology Society. September 2020.

Britton, M.; Porges, E.C.; Bryant, V.; Cohen, R.A. Profiling Cognitive Deficit in HIV

-Alcohol Use Disorder Comorbidity: A Review. International Neuropsychology

Society. September 2020.

Hausman, H.; O’Shea, A.; Dominguez, V.; Fillingim, M.; Calfee, K.; […] Porges, E.C.;

[…] & Woods, A.J. COVID-19 Concerns in Older Adults and Mental Health

Outcomes during the Pandemic. International Neuropsychology Society.

September 2020.

Bryant, V.; Gullett, J.; Porges, E.C.; Cook, R. L.; Bryant, K.; Woods, A.J.; ... & Cohen,

R.A. History of Alcohol Consumption and HIV Status Relate to Functional

Connectivity Differences in the Brain During Working Memory Performance.

Current HIV research. February, 2020.

Hupfeld, K.; Porges, E.C.; Hass, C.; Seidler, R. Neurochemical correlates of gait

coordination and adaptation. Society for the Neural Control of Movement.

Dubrovnik, Croatia. April, 2020.

Monning, M.; Monti, P.; Tashima, K.; Gullett, J.; Porges, E.C.; Jahanshad, N.; Nir, T.;

Thompson, P.; Cohen, R. Alcohol use is associated with degradation of brain

white matter in HIV infection. 2020 Conference on Retroviruses and

Opportunistic Infections. Boston, MA. March, 2020.

Nissim, N.R.; O’Shea, A.; Richards, L.A.; Telles, R.; Porges, E.C.; Cohen, R.; Woods,

A.J. Effects of Bilateral-Frontal tDCS on the Working Memory Network: an fMRI-

tDCS Study in Older Adults. Brain Stimulation. Gainesville, FL. 2019.

Seider, R.; Porges, E.C.; Woods, A.; Cohen, R. An fMRI study of age-associated

changes in basic visual discrimination. Archives of Clinical Neuropsychology.

 November, 2019.

Porges, E.C.; Jensen, G.; Bharadwaj, P.; Franchetti, M.; Sims, S.; Rezaei, R … Puts, N.

Age related decreases in cortical GABA concentrations assessed over the

lifespan abate in cognitively intact adults over 85 years of age. Society for Neuroscience. Chicago, IL. October, 2019

Visscher, K.; Stewart, P.; Sims, A.; Bharadwaj, P.; Franchetti, M.; Rezaei, R.; […]

Porges, E.C.; […] & Alexander, G. Functional connectivity in the healthy oldest

old: Findings from the McKnight brain aging registry. Society for Neuroscience.

Chicago, IL. October, 2019.

Raichlen, D.; Bharadwaj, R.; Franchetti, M.; Sims, S.; Rezaei, R.; Merritt, S.; […]

Porges, E.C.; […] & Alexander, G. Relation of daily activity patterns to cortical

gray matter maps in the healthy oldest old: Findings from the McKnight brain

aging registry. Society for Neuroscience. Chicago, IL. October, 2019.

Valdes-Hernandez, P.; Horta, M.; Frazier, I.; Porges, E.C.; Polk, R.; Perez, E.; Ojeda,

M.; Cruz-Almeida, Y.; Morris, J.; Feifel, D.; Ebner, N. Society for Neuroscience.

Chicago, IL. October, 2019.

Považan, M.; Mikkelsen, M.; Berrington, A.; Barker, P.; Bhattacharyya, P.; Brix, M., […]

Porges, E.C., […] & Edden, R. The use of multi-vendor, multi-site 1H-MRS data

acquired at 26 sites as a benchmark for MRS standardization: Comparison of

quantification software. Digital Poster, International Society for Magnetic

Resonance in Medicine. Montreal, QC. May, 2019.

Kaan, E.; De Aguiar, I.; Nakamura, M.; Chopde, A.; Zhao, C.; Lamb, D.; Williamson, J.;

Porges, E.C. Effects of Transcutaneous Vagus Nerve Stimulation on Statistical

Language Learning and Phonological Working Memory. Society for the

Neurobiology of Language. August, 2019.

Saleh, M.; Wang, A.; Mikkelsen, M.; Oeltzschner, G.; Porges, E.C.; Boissoneault, J.;

Edden, R. Dynamic MRS measurements of GABA, glutathione and ethanol.

Organization for Human Brain Mappin. Rome, Italy. June, 2019.

Saleh, M.; Wang, A.; Mikkelsen, M.; Oeltzschner, G.; Porges, E.C.; Edden, R.

Simultaneous edited detection of GABA, glutathione and ethanol using

HERMES. Digital Poster, International Society for Magnetic Resonance in

Medicine. Montreal, QC. May, 2019.

Porges, E.C.; Saleh, M.; Wang, A.; Mikkelsen, M.; Oeltzschner, G.; Boissoneault, J.;

Stennett, B.; Edden, R. Simultaneous and dynamic MRS measurements of brain

ethanol, GABA, and glutathione after acute alcohol administration. Research

Society on Alcoholism. Minneapolis, MN. June, 2019.

Shortell, D.; Gullett, J.; Govind, V.; Porges, E.C.; Cook, R. Neuroanatomical Effects of

30-Day Abstinence from Heavy Alcohol Use. Research Society on Alcoholism.

Minneapolis, MN. June, 2019.

Fieo, R.A.; Cohen, R.; Dévieux, J.; Brumback, B.; Zhou, Z.; Fiore, A.; Gullett, J.; Porges,

E.C.; Cook, R. Effects of experimentally-induced reductions in alcohol

consumption on cognition and motivation for changing drinking in older adults

with HIV infection. Research Society on Alcoholism. Minneapolis, MN. June,

2019.

Hupfeld, K.; Porges, E.C.; Hass, C.; Seidler, R. Association of cortical inhibition with gait

and balance. Society for the Neural Control of Movement. Toyama, Japan. April,

2019.

Lussier, D.; Fillingim, R.B.; Riley, J.L.; Cohen, R.; Woods, A.; Porges, E.C.; Ebner, N.C.;

Cruz-Almeida, Y. Associations Between Pain Interference and Brain Volume in

Community-Dwelling Older Adults. Poster presented at the American Pain

Society Scientific Meeting in Milwaukee, WI. April, 2019.

Tran, A.; Murphy, A.; Lamb, D.; Porges, E.C.; Jaffee, M.; Williamson, J. Non-invasive

vagal nerve stimulation and sleep. Poster presented at the McKnight

Undergraduate Research Day, Gainesville, FL. February, 2019.

Horta, M.; Lin, T.; Polk, R.; Porges, E.C.; Feifel, D.; Ebner, N. Effects of chronic

intranasal oxytocin administration on dynamic emotion identification in older adults. The Institute for Learning in Retirement. Gainesville, FL. February, 2019.

Fernando, H.; Cohen, R.; Friedman, J.; Ayzengart, A.; Gullet, J.; Porges, E.C.; Woods,

A.; Gunstad, J.; Ochao, C.; Cusi, K. The role of comorbid vascular and metabolic risk factors in obesity-related neurocognitive deficits. International

Neuropsychological Society. February, 2019.

Gulliford D.; Chen H.; Porges E.C.; Lin T.; Hayes R.; Fisher H.; Feifel D.; Cohen C.;

Ebner N. Sex-differential effects of intranasal oxytocin on resting-state anterior

cingulate activity. Organization for Human Brain Mapping, Vancover, CA. 2017.

Clark D.J.; Chatterjee S.; Porges E.C.; Fox E.J.; Balasubramanian C. Sympathetic

nervous system activity as an assessment of perceived challenge of walking after stroke*.* 2017 Annual Conference of the American Congress of Rehabilitation Medicine. Atlanta, GA. October, 2017.

Wratchford C.; Chatterjee S.; Porges E.C.; Fox E.; Balasubramanian C.; Clark D.

Sympathetic nervous system activity as a physiological assessment of the

perceived challenge of walking after stroke. University of Florida College of

Medicine Celebration of Research. February, 2017.

Chatterjee S.; Rose D.; Porges E.C.; Fox E.; Daly J.; Christou E.; Otzel D.; Butera K.;

Clark D.J. Quantifying the perceived challenge of walking after stroke by

measuring sympathetic activation: a pilot study. APTA Combined Sections

Meeting, San Antonio, TX. 2017

Seider T.R.; Porges E.C.; Woods A.J.; Cohen R.A. Age-Related Changes in Visual

Discrimination. Poster presented at the International Neuropsychological

Society, New Orleans, LA. 2017.

Garcia A.M.; Seider T.R.; Porges E.C.; Cohen R.A. The Relationship between DMN

Activation and Intelligence in Older Adults. Poster presented at the International Neuropsychological Society, New Orleans, LA. 2017.

McLaren M.E.; Dotson V.M.; Szymkowicz S.M.; O’Shea D.; O’Shea A.; Porges E.C.; Cohen R.A., Woods A.J. Association of Subthreshold Depressive Symptoms with Cortical Thickness and Surface Area of the Insula. Poster presented

presented at the International Neuropsychological Society, New Orleans, LA. 2017.

Lamb D.G.; Porges E.C.; Williamson J.B. Modulation of signs and symptoms of post-

traumatic stress disorder and traumatic brain injury by peripheral nerve

stimulation. Poster presented at the Society for Neuroscience, San Diego, CA.

2016.

Clark D.J.; Wratchford C.; Chatterjee S.A.; Porges E.C.; Fox E.J.; BalasubramanianB.

Sympathetic nervous system activity to assess the perceived challenge of

walking adaptability after stroke. Poster presented at the Brooks Rehabilitation annual research day, Gainesville, FL, 2016.

Bryant V.E.; Woods A.J.; Porges E.C.; Cook R.L.; Kahler C.W.; O'Shea A.; Tashima K.;

Cohen R.A. Frontal Neural Correlates of Working Memory Decline in Hazardous

Drinkers Living With HIV. Poster presented at the Research Society on

Alcoholism, New Orleans, LA. 2016.

Chatterjee S.A.; Rose D.K.; Porges E.C.; Fox E.J.; Daly J.D.; Christou E.A.; Otzel D.M.;

Butera K.A.; Clark D.J. Quantifying the perceived challenge of walking after

stroke by measuring sympathetic activation: a pilot study. Poster presented at

Annual CSM meeting. San Antonio. 2016.

Bryant V.E.; Woods A.J.; Porges E.C.; Cook R.L.; Kahler C.W.; O'Shea A.; Tashima K.;

Cohen R.A. Frontal Neural Correlates of Working Memory Decline in Hazardous

Drinkers Living With HIV. Poster presented at Annual SHARC meeting,

Poster Prize awarded, Miami, FL. 2016.

Seider T.R.; Garcia A.M.; Porges E.C.; Woods A.J.; Cohen R.A. Default Mode Network

Control, Social Engagement, and Memory in Older Adults. Poster presented at

the American Academy of Clinical Neuropsychology, Chicago, IL, 2016.

Bryant V.E.; Woods A.J.; Porges E.C.; Cook R.L.; Kahler C.W.; O'Shea A.; Tashima K.;

Cohen R.A. Poster presented at the Frontal Neural Correlates of Working

Memory Decline in Hazardous Drinkers Living With HIV. CHAART Conference, 2016.

Nissim N.R.; O’Shea A.; Bryant V.; Porges E.C.; Cohen R.A.; Woods A.J. Neural

Correlates of Working Memory in Healthy Older Adults. Poster presentation at the Cognitive Aging Conference, Atlanta, GA. 2016.

Garcia A.; Seider T.; Porges E.C.; Cohen R.A. The Relationship between DMN

Activation and Intelligence in Older Adults. Poster presented at University of

Florida Institute on Aging Research Day, Gainesville, Florida. 2015.

Bryant V.E.; Woods A.J.; Porges E.C.; Seider T.R.; Gongvatana A.; Kahler C.W.; de la

Monte S.M.; Monti P.; Cohen R.A. Heavy Alcohol Consumption Exacerbates

Cognitive Aging. Poster at the Research Society on Alcoholism, 2015.

Nissim N.R.; O’Shea A.; Bryant V.; Porges E.C.; Cohen R.A.; Woods A.J. Neural

Correlates of Working Memory in Healthy Older Adults. Poster presentation at the University of Florida, Institute on Aging Spotlight on Aging Research,

Gainesville, FL. 2015.

Seider T.; Porges E.C.; Garcia A.; Cohen R.A. Social Activity is Associated with Better

Verbal Memory in Older Adults. The American Academy of Clinical

Neuropsychology, 2015.

Fouche J.P.; Jahanshad N.; Ching C.; Joska J.; Paul R.; Hoare J.; Valcour V.; Woods

W.; Porges E.C.; Thompson P.; Navia B.; Cohen R.A.; Stein D.J. The Enigma-

HIV working group: Association of CD4 with subcortical volume in HIV-Positive

adults. Organization for Human Brain Mapping, Honolulu, HI. 2015.

Woods A.; Porges E.C.; O’Shea A.; Bryant V.; Harris A.; Edden R.; Cohen R.A. Frontal

NAA concentrations predict global cognitive function in older adults. Cognitive

Neuroscience Society, San Francisco, CA. 2015.

Porges E.C.; Woods A.J.; Harris A.; Edden R.; Cohen R.A. Frontal GABA

concentrations predict global cognitive function in older adults. Cognitive

Neuroscience Society, San Francisco, CA. 2015.

Ebner N.; Porges E.C.; Lin T.; Fisher H.; Cohen R.A. Oxytocin and Aging: Effects on

Reading Facial Cues of Trust and Emotion. Cognitive Neuroscience Society,

Boston, MA. 2015.

Porges E.C.; Smith K.; Decety J. Interaction of Pain and Pleasure Networks. Cognitive

Neuroscience Society in San Francisco, CA. 2013.

Porges E.C.; Smith K.; Decety J. Resting vagal regulation predicts testosterone

responses to observed violence. Brain Research Foundation, Chicago, IL. 2013.

Porges E.C.; Smith K.; Decety J. Resting vagal regulation predicts testosterone

responses to observed violence. Society for Psychophysiological Research,

New Orleans, LA. 2012.

Porges E.C.; Smith K.; Decety J. Resting vagal regulation predicts sympathetic and

testosterone responses to observed violence. Cognitive Neuroscience Society,

Chicago, IL. 2012.

Yoder K.; Porges E.C.; Decety J. Amygdala subnuclei-seeded functional connectivity: a

novel application of probabilistic tractography. Cognitive Neuroscience Society,

Chicago, IL. 2012.

Porges E.C.; Decety J. Central pathways of pain and pleasure interact. American

College of Neuropsychopharmacology in Waikoloa, HI. 2011.

Porges E.C.; Decety J. Common neural recruitment when observing pleasure and pain.

Society for Neuroscience Meeting, Washington, DC. 2011.

Porges E.C.; Decety J. Different neural responses result from imagining being the

perpetrator or recipient of morally valenced actions: An fMRI study. Society for

Neuroscience Meeting, San Diego, CA. 2010.

**Teaching Experience:**

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| --- | --- | --- | --- |
| **Position** | **Course** | **Institution/Organization** | **Year** |
| Course Faculty/Lecturer | Magnetic Resonance Spectroscopy (MRS) Editing School Short Course | Independent Course by MRS researchers | 2022 |
| Course Director | Methods of Cognitive Neuroscience | The University of Florida | 2022 |
| Guest Lecturer | Seminar on the Translational Science of Alcohol and HIV Infection | The University of Florida | 2022 |
| Guest Lecturer | Clinical and Cognitive Neuroscience Methods & Theory | The University of Florida | 2022 |
| Course Director | Lab in Cognitive Neuroscience | The University of Florida | 2021 |
| Guest Lecturer | Seminar on the Translational Science of Alcohol and HIV Infection | The University of Florida | 2021 |
| Guest Lecturer | Clinical and Cognitive Neuroscience Methods & Theory | The University of Florida | 2021 |
| Course Faculty/Lecturer | Magnetic Resonance Spectroscopy (MRS) Editing School Short Course | Independent Course by MRS researchers | 2020 |
| Guest Lecturer | Clinical and Cognitive Neuroscience Methods & Theory | The University of Florida | 2020 |
| Course Director | Methods of Cognitive Neuroscience | The University of Florida | 2020 |
| Guest Lecturer | Seminar on the Translational Science of Alcohol and HIV Infection | The University of Florida | 2020 |
| Course Director | Methods of Cognitive Neuroscience | The University of Florida | 2019 |
| Guest Lecturer | Seminar on the Translational Science of Alcohol and HIV Infection | The University of Florida | 2019 |
| Guest Lecturer | Clinical and Cognitive Neuroscience Methods & Theory | The University of Florida | 2019 |
| Course Faculty/Lecturer | Magnetic Resonance Spectroscopy (MRS) Editing School Short Course | Independent Course by MRS researchers | 2018 |
| Guest Lecturer | Clinical and Cognitive Neuroscience: Methods and Theory | The University of Florida | 2018 |
| Course Director | Methods of Cognitive Neuroscience | The University of Florida | 2018 |
| Guest Lecturer | Neurotechnologies in Education | The University of Florida | 2018 |
| Guest Lecturer | Health Informatics & Emerging Healthcare Technologies | The University of Florida | 2018 |
| Guest Lecturer | Clinical and Cognitive Neuroscience: Methods and Theory | The University of Florida | 2017 |
| Course Director | Methods of Cognitive Neuroscience | The University of Florida | 2017 |
| Guest Lecturer | Aging and the Human Brain | The University of Florida | 2017 |
| Course Director | Clinical and Translational Science Institute Student Seminar Course (Graduate Level) | The University of Florida | 2016 |
| Guest Lecturer | Survey of Cognitive Neuroscience methods | The University of Florida | 2016 |
| Instructor | Functional Neuroimaging Methods | Center for Cognitive Aging | 2015 |
| Guest Director | CTSI Seminar | The University of Florida | 2015 |
| Guest Lecturer | Survey of Cognitive Neuroscience methods | The University of Florida | 2015 |
| Guest Lecturer | Aging and the Human Brain | The University of Florida | 2015 |
| Lecturer/TA | The Empathic Brain | The University of Chicago | 2013 |
| Lecturer/TA | Windows to the Social Brain | The University of Chicago | 2012 |
| Lecturer/TA | Biological Psychology | The University of Chicago | 2012 |
| Lecturer/TA | Psychological Research Methods | The University of Chicago | 2011 |
| Lecturer/TA | Biological Psychology | The University of Chicago | 2011 |