

# Joseph M. Gullett, Ph.D.

Research Assistant Professor  
Neuropsychologist  
Center for Cognitive Aging & Memory  
Department of Clinical & Health Psychology  
University of Florida

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## Education

Post-Doctoral Fellow	2017-2019	NIH T32 Fellow – NIAAA; Center for Cognitive Aging & Memory, Southern HIV Aging Research Center (SHARC). Mentor: Ronald A. Cohen, Ph.D.
Ph.D.	2017	Clinical Psychology, University of Florida, Department of Clinical & Health Psychology; APA Full Accreditation <u>Area of Concentration:</u> Neuropsychology <u>Committee Chair:</u> Russell M. Bauer, Ph.D., ABPP-CN
Internship	2016	Clinical Psychology / Geropsychology, West Los Angeles VA Medical Center, Los Angeles, California, USA; APA Full Accreditation
B.S.	2008	Psychology (Cum Laude), University of Florida

## Professional Work Experience

<u>Position</u>		<u>Description</u>
Research Assistant Professor	2019-	Center for Cognitive Aging & Memory, University of Florida
T-32 Postdoctoral Fellow	2018-2019	Center for Cognitive Aging & Memory, Southern HIV Alcohol Research Center, UF Health Psychology Specialties, University of Florida
Post-doctoral Clinical-Research Associate	2017-2018	Center for Cognitive Aging & Memory, UF Health Psychology Specialties, University of Florida
Geropsychology Intern	2016-2017	West Los Angeles VA Medical Center, Los Angeles, CA
Graduate Assistant	2014-2016	Department of Psychiatry, University of Florida
Sub-Investigator & Graduate Assistant	2009-2014	Brain Rehabilitation Center, Malcolm Randall VAMC & The University of Florida
Psychometrician	2008-2010	Psychology Clinic, University of Florida
Research Assistant	2008-2009	Cognitive Aging Laboratory, Psychology & Communication Disorders, University of Florida
Lab & Research Assistant	2007-2008	Active Adult Mentoring Program, Department of Clinical & Health Psychology, University of Florida

## Grant Funding

### ACTIVE

U01-AA020797-09 (PI: Cook)  
Sept 2019-  
**Role:** Co-Investigator

*“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”*

P01-AA019072-10 (PI: Cohen)  
 March 2020-  
**Role:** Co-Investigator

“Alcohol and HIV-Associated Brain Dysfunction.”  
 The ARCH Study

R01-DK099334-05 (PI: Cohen)  
 March 2020-  
**Role:** Co-Investigator

Obesity and Type-2 Diabetes: Bariatric Surgery Effects On Brain  
 Function.  
 The WISE Study

## COMPLETED

1Florida Alzheimer’s Disease  
 Research Center Pilot Award  
 AG047266  
 Sept 2019- Sept 2020  
**Role:** Principal Investigator

“Machine Learning Diagnostic Prediction using Multi-modal  
 Neuroimaging, LASSI-L performance, and Disease Progression  
 Information.”

NIAAA T32-AA25877 (PI: Cook)  
 Sept 2018-Aug 2019  
**Role:** Postdoctoral Fellow

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

## Peer-Reviewed Publications

### 2020

**Gullett, J.M.**, O’Shea, A., Cohen, R., Porges, E., Lamb, D. G., O’Shea, D.M., Pasternak, O., Woods, A.J.  
 (2020). The Association of White Matter Free Water with Cognition in Older Adults. *Neuroimage*.  
<https://doi.org/10.1016/j.neuroimage.2020.117040>

**Gullett, J.M.**, Chen, Z., O’Shea, A., Akbar, M., Bian, J., Rani, A., Porges, E.C., Foster, T.C., Woods, A.J.,  
 Cohen, R.A. (2020). Micro RNA Predicts Cognitive Performance in Healthy Older Adults. *Neurobiology of  
 Aging*. <https://doi.org/10.1016/j.neurobiolaging.2020.07.023>

Bryant, V., **Gullett, J.M.**, Porges, E., Cook, R. L., Bryant, K., Woods, A. J., Williamson, J., Ennis, N., & Cohen,  
 R. A. (2020). History of Alcohol Consumption and HIV Status Related to Functional Connectivity  
 Differences in the Brain During Working Memory Performance. *Current HIV Research*.  
<https://doi.org/10.2174/1570162X18666200217100123>

### 2019

**Gullett, J. M.**, Cohen, R. A., Yang, G. S., Menzies, V. S., Fieo, R. A., Kelly, D. L., ... Lyon, D. E. (2019).  
 Relationship of fatigue with cognitive performance in women with early-stage breast cancer over 2 years.  
*Psycho-Oncology*. <https://doi.org/10.1002/pon.5028>

Kuhn, T., Jin, Y., Huang, C., Kim, Y., Nir, T. M., **Gullett, J. M.**, ... Thames, A. D. (2019). The joint effect of  
 aging and HIV infection on microstructure of white matter bundles. *Human Brain Mapping*.  
<https://doi.org/10.1002/hbm.24708>

Cohen, R. A., **Gullett, J. M.**, Porges, E. C., Woods, A. J., Lamb, D. G., Bryant, V. E., ... Monti, P. M. (2019).  
 Heavy Alcohol Use and Age Effects on HIV-Associated Neurocognitive Function. *Alcoholism: Clinical and  
 Experimental Research*. <https://doi.org/10.1111/acer.13915>

Cohen, R. A., **Gullett, J. M.**, Woods, A. J., Porges, E. C., Starkweather, A., Jackson-Cook, C. K., ... Lyon, D.  
 E. (2019). Cytokine-associated fatigue prior to, during, and post-chemotherapy for breast cancer. *Journal  
 of Neuroimmunology*. <https://doi.org/10.1016/j.jneuroim.2019.577001>

Fernando, H. J., Cohen, R. A., **Gullett, J. M.**, Friedman, J., Ayzengart, A., Porges, E., ... Donahoo, W. T.  
 (2019). Neurocognitive Deficits in a Cohort With Class 2 and Class 3 Obesity: Contributions of Type 2  
 Diabetes and Other Comorbidities. *Obesity*. <https://doi.org/10.1002/oby.22508>

### 2018

**Gullett, J. M.**, Lamb, D. G., Porges, E., Woods, A. J., Rieke, J., Thompson, P., ... Cohen, R. A. (2018). The  
 Impact of Alcohol Use on Frontal White Matter in HIV. *Alcoholism: Clinical and Experimental Research*.

<https://doi.org/10.1111/acer.13823>

Cohen, R. A., Siegel, S., **Gullett, J. M.**, Porges, E., Woods, A. J., Huang, H., ... Ding, M. Z. (2018). Neural response to working memory demand predicts neurocognitive deficits in HIV. *Journal of NeuroVirology*. <https://doi.org/10.1007/s13365-017-0607-z>

Kuhn, T., **Gullett, J. M.**, Boutzoukas, A. E., Bohsali, A., Mareci, T. H., FitzGerald, D. B., ... Bauer, R. M. (2018). Temporal lobe epilepsy affects spatial organization of entorhinal cortex connectivity. *Epilepsy and Behavior*. <https://doi.org/10.1016/j.yebeh.2018.06.038>

2017 (clinical internship year)

2016

Kuhn, T., **Gullett, J. M.**, Nguyen, P., Boutzoukas, A. E., Ford, A., Colon-Perez, L. M., ... Bauer, R. M. (2016). Test-retest reliability of high angular resolution diffusion imaging acquisition within medial temporal lobe connections assessed via tract based spatial statistics, probabilistic tractography and a novel graph theory metric. *Brain Imaging and Behavior*. <https://doi.org/10.1007/s11682-015-9425-1>

2015

Sullan, M. J., Bohsali, A. A., **Gullett, J. M.**, Goldstein, J., Bauer, R. M., Mareci, T. H., & Fitzgerald, D. B. (2015). The Relationship Between Locus Coeruleus Volume and Measures of Sleep and Attentional Control in Veterans with Mild TBI. *The Clinical Neuropsychologist*, 29(3), 324-324

Bohsali, A. A., Triplett, W., Sudhyadhom, A., **Gullett, J. M.**, McGregor, K., FitzGerald, D. B., ... Crosson, B. (2015). Broca's area - Thalamic connectivity. *Brain and Language*. <https://doi.org/10.1016/j.bandl.2014.12.001>

2014

Sullan, M., Bohsali, A., **Gullett, J.**, Goldstein, J., Bauer, R., Mareci, T., and FitzGerald, D. (2014). The Locus Coeruleus and Sleep-Wake Disturbances in Veterans with mTBI. *J Sleep Med Disord*, 1(1): 1004.

2013

**Gullett, J. M.**, Price, C. C., Nguyen, P., Okun, M. S., Bauer, R. M., & Bowers, D. (2013). Reliability of three benton judgment of line orientation short forms in idiopathic parkinsons disease. *Clinical Neuropsychologist*. <https://doi.org/10.1080/13854046.2013.827744>

Ford, A. A., Triplett, W., Sudhyadhom, A., **Gullett, J.**, McGregor, K., FitzGerald, D. B., ... Crosson, B. (2013). Broca's area and its striatal and thalamic connections: A diffusion-MRI tractography study. *Frontiers in Neuroanatomy*. <https://doi.org/10.3389/fnana.2013.00008>

Ford, A., Colon-Perez, L., Triplett, W. T., **Gullett, J. M.**, Mareci, T. H., & FitzGerald, D. B. (2013). Imaging white matter in human brainstem. *Frontiers in Human Neuroscience*. <https://doi.org/10.3389/fnhum.2013.00400>

2011

FitzGerald, D. B., **Gullett, J. M.**, Levy, C. E., & Crosson, B. A. (2011). Delayed Diagnosis of Intracerebral Foreign Body From the Vietnam War. *Military Medicine*. <https://doi.org/10.7205/milmed-d-10-00323>

## **Book Chapters**

2019

- Cohen, R. A., **Gullett, J.M.**, Porges, E. (2019). Neuroimaging of the aging brain. In K.M. Heilman & Stephen Nadeau (Eds.), *Cognitive changes and the Aging Brain*. Cambridge University Press, Cambridge, UK.
- **Gullett, J.M.** (2019). Neuroinflammation. Gullett, J.M. (2019) Neuroinflammation. In Gu, Danan and Dupre, Matthew E., "Encyclopedia of Gerontology and Population Aging." New Delhi, India: Springer Nature.
- Cohen, R.A. & **Gullett, J.M.** (2019). Neuroimaging. In Gu, Danan and Dupre, Matthew E., "Encyclopedia of Gerontology and Population Aging." New Delhi, India: Springer Nature.

(also see <http://orcid.org/0000-0002-8184-7187>)

### Selected Presentations

- **J.M. Gullett**, R.A. Fieo, R. Cohen, J.G. Devieux, B. Brumback, Z. Zhou, A.J. Fiore, E. Porges, R. Cook. Effects of Experimentally-Induced Reductions In Alcohol Consumption on Cognition, & Motivation For Changing Drinking In Older Adults with HIV Infection. *Research Society on Alcoholism* Poster Reception, June 2019, Minneapolis, MN.
- D.D. Shortell, **J.M. Gullett**, V. Govind, E.S. Porges, R.L. Cook. Neuroanatomical Effects of 30-Day Abstinence From Heavy Alcohol Use. *Research Society on Alcoholism* Poster Reception, June 2019, Minneapolis, MN.
- **Joseph M. Gullett**. Data Update on McKnight Brain Aging Registry: Brain Volume and Cognition in the Oldest-Old. *A presentation to ~175 researchers and trustees for the 2019 McKnight Brain Aging Registry Annual Meeting*
- **JM Gullett**, PK Bharadwaj, AJ Woods, GE Alexander, RA Cohen. "Cognition and Brain Volume in Successful Late Life." Poster presented at the Second Annual McKnight Brain Research Foundation Society for Neuroscience Poster Reception. November 4<sup>th</sup>, 2018. San Diego, California.
- **Gullett, J.M.**, Veliz, J., Riskin-Jones, H., Weissberger, G., Sultzer, D., & Melrose, R. "White Matter Disease in Amnesic Mild Cognitive Impairment: Contributions to White Matter Integrity." Poster presentation at the International Neuropsychological Society's 2018 meeting in Washington D.C. February 2018
- **J.M. Gullett**, Sullan, R.M. Bauer, & D. FitzGerald. Increased Delta Wave Sleep Associated with Central Apnea Events in Mild Traumatic Brain Injury. Poster presentation at the International Neuropsychological Society's 2016 meeting in Boston, MA. February 2016.
- **Gullett, Joseph M.**, Bohsali, Anastasia, Bauer, Russell M., & FitzGerald, David, B. The Gating Role of the Anterior Cingulate Cortex in PTSD Re-Experiencing. Poster presentation at the Malcom Randall VAMC's Annual Research Day, 2015. With personal presentation to the director of NFSG Veterans Affairs, Thomas Wisnieski.
- **Gullett, Joseph M.**, Bohsali, Anastasia, Bauer, Russell M., & FitzGerald, David B. The Gating Role of the Anterior Cingulate Cortex in PTSD Re-Experiencing. Poster presentation at the International Neuropsychological Society's 2014 meeting in Denver, Co. February 2015.
- T. Kuhn, A. Boutzoukas, **J. M. Gullett**, A. Ford, P. C. Carney, D. B. FitzGerald, R. M. Bauer. (2015). Altered White Matter Connectivity in Adjacent Medial Temporal Circuits in Temporal Lobe Epilepsy. Forty-third Annual International Neuropsychological Society Conference, Denver, Colorado
- **Gullett, Joseph M.**, Ford, Anastasia, FitzGerald, David B., Bauer, Russell M. Structural Connectivity of the Hippocampus in mild TBI and PTSD. Poster presentation at the American Academy of Clinical Neuropsychology (AACN) Annual Meeting. New York, New York, June 2014.
- T. Kuhn, A. Boutzoukas, **J. M. Gullett**, A. Ford, P. C. Carney, D. B. FitzGerald, R. M. Bauer. (2014). Altered White Matter Connectivity in Adjacent Medial Temporal Circuits in Temporal Lobe Epilepsy. Twelfth Annual American Academy of Neuropsychology Conference, New York, New York.
- **Gullett, Joseph M.**, Ford, Anastasia, FitzGerald, David B., Bauer, Russell M. Structural Connectivity of the Hippocampus in mild TBI and PTSD. Poster presentation at PPHP Research Day. Gainesville, FL, March 2014.
- T. Kuhn, A. Boutzoukas, **J. M. Gullett**, A. Ford, D. B. FitzGerald, P.C. Carney, R. M. Bauer. (2014, February). Temporal Lobe Memory Circuits: White Matter Integrity and Memory Performance in Temporal Lobe Epilepsy. Forty-Second Annual Meeting of the International Neuropsychological Society, Seattle, Washington.
- **Gullett, Joseph M.**, FitzGerald, David B., Bauer, Russell M. Predictors of Pre-deployment Intellectual Ability in OEF/OIF Veterans with Mild Traumatic Brain Injury and Post-Traumatic Stress Disorder. Poster presentation at The International Neuropsychological Society's 2013 meeting in Waikaloa, HI. February, 2013.
- T. Kuhn, **J. Gullett**, D. Fitzgerald, R. Bauer. Self-Report Measures of Psychological Distress as Predictors of Cognitive Performance in Mild Traumatic Brain Injury (2013, February). Forty-First Annual Meeting of the International Neuropsychological Society, Waikoloa, Hawaii.

- **Gullett, Joseph M.**, FitzGerald, David B., Bauer, Russell M. Predictors of Pre-deployment Intellectual Ability in OEF/OIF Veterans with Mild Traumatic Brain Injury and Post-Traumatic Stress Disorder. Poster presentation at PPHP Research Day 2013.
- **Gullett, Joseph M.**, Bauer, Russell M., & FitzGerald, David B. Pre-deployment Predictors of PTSD in OEF/OIF Veterans with Mild Traumatic Brain Injury. Poster presentation at the North Florida South Georgia Veterans Health System Research Day. Gainesville, FL. May 16, 2012.
- **Gullett, Joseph M.**, Price, Catherine C., Nguyen, P., Okun, M., Bauer, Russell M., and Bowers, D. Reliability of a Benton JOLO Short Form in Parkinson's Disease. Poster presentation at The International Neuropsychological Society's 2011 meeting in Boston, MA. February, **2011**.

### **Works Submitted/In Progress**

- **Gullett, J.M.**, Bauer, Russell, M., & FitzGerald, David B. Pre-deployment predictors of PTSD in OEF/OIF Veterans with Mild Traumatic Brain Injury. *Stress*. UNDER REVISION.
- **Gullett, J.M.**, Bohsali, A.A., Amin, M., Sullan, M., Bauer, Russell, M., & FitzGerald, David B. In-vivo locus coeruleus white matter connectivity; associations with polysomnography and traumatic brain injury. *Sleep*. IN PROGRESS
- **Gullett, J.M.**, et al. Cytokines predict white matter integrity in typically aging older adults. IN PROGRESS
- **Gullett, J.M.**, Albizu, A., Fang, R., Woods, A.J., & The 1Florida ADRC Group. "Baseline neuroimaging predicts one-year diagnostic decline in amnesic mild cognitive impairment." IN PROGRESS

### **Clinical Experience**

#### October 2019 - current

- Pre-Post Deep Brain Stimulation (DBS) Surgery and General Adult Neuropsychological Assessment
- Perioperative Cognitive Assessment Network (PeCAN)

#### August 2019

- Licensed Clinical Psychologist (PY10534)

#### Sept 2017 - July 2019

- UF Health Psychological Specialties, Neuropsychology, Gainesville, FL

#### 2016-2017

- West Los Angeles VA Medical Center; Los Angeles, CA

#### 2014-2016

- Florida Recovery Center, University of Florida Department of Psychiatry, Gainesville, FL
  - Neuropsychology Service - Benjamin R. Phalin, Ph.D.; Scott Teitelbaum, M.D. (Director)

#### 2011-2016

- University of Florida Psychology Clinic, Gainesville, FL
  - Core, rural, and advanced practicum in neuropsychology (2x) rotations

#### 2008-2011

- University of Florida Psychology Clinic, Gainesville, FL
  - Over 1,000 hours of one-on-one neuropsychological assessment provided as psychometrist

### **Teaching/Training Experience**

Fall 2020

Instructor of Record – PSB6115C (Section 4090)  
Clinical & Cognitive Neuroscience: Methods and Theory



February 2020	<u>Invited Lecturer – Methods in Cognitive Neuroscience (PSB4934)</u> Presented a 1.25hr lecture to undergraduate students titled, “Introduction to Diffusion Tensor Imaging in Research”
February 2019	<u>Invited Lecturer – Methods in Cognitive Neuroscience (PSB4934)</u> Presented a 1.5hr lecture to undergraduate students titled, “Introduction to Diffusion Tensor Imaging in Research”
November 2018	<u>Invited Lecturer – Frontal White Matter effects of HIV and Alcohol (HSC4593/6595)</u> Presented a 1.0 hour lecture to graduate and undergraduate students investigating the findings of a recent first-author publication with the above title.
February 2018	<u>Invited Lecturer – Methods in Cognitive Neuroscience (PSB4934, section 19F6)</u> Presented a 1.5hr lecture to undergraduate students entitled, “Introduction to Diffusion Tensor Imaging in Research”
October 2017	Provided in-depth neuropsychological training to M.S. and Ph.D. level researchers in preparation for the start of the upcoming U-01 grant “The 30-to-90 Day Challenge” under Dr. Robert Cook (PI) with the Southeastern HIV Alcohol Research Center (SHARC). University of Miami, Miami, FL - 10/12/2017 and 10/13/2017.
Fall 2014	<u>Invited Lecturer - Introduction to Clinical Psychology (CLP4302, section 0118)</u> Presented a lecture titled, “Posttraumatic Stress Disorder diagnosis, treatment, and current neurobiological research.”
Fall 2013	Provided an in-depth, multi-day training on the use of Tract-Based Spatial Statistics (TBSS) for research to six graduate assistants
Summer 2012	<u>Invited Lecturer- Neurocognitive Seminar (SPA6581)</u> Presented a lecture titled, “The effects of blast injury on the brain: physics, neuropsychological changes, and the measurement of damage” to Speech and Language Pathology Master’s Students.

### Editorial Activities

April 2020	Ad-hoc Reviewer - Frontiers in Aging Neuroscience
March 2020	Editorial Board Member – Frontiers in Aging Neuroscience
November 2019	Ad-hoc Reviewer – Brain Imaging and Behavior
April 2019	Ad-hoc Reviewer – Human Brain Mapping
December 2018	Ad-hoc Reviewer – Neuropsychology Reviews
January 2017	Ad-hoc Reviewer – The Clinical Neuropsychologist

### Leadership and Professional Affiliations

2020-present	Editorial Board Member, Frontiers in Aging Neuroscience
2020-present	Member, American Academy of Neurology (AAN)
2019-present	Member, The International Neuropsychological Society (INS)
2012-2016	Student Representative, Graduate Assistants United (GAU), University of Florida
2012-2017	Student Affiliate, American Psychological Association (APA) Division 40. Clinical Neuropsychology, Membership ID Number: 32972392