

Karysa J. Britton

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EDUCATION

Washington University in St. Louis 2023 – Present
Doctoral Student in Clinical Psychology

Ball State University, Muncie, IN
Master of Arts, Clinical Psychology Graduated 2021
Master of Science, Quantitative Psychology Graduated 2021
Cumulative GPA: 3.980

Thesis: *Physical Activity and Prospective Memory in Emerging Adulthood: The Moderating Role of Sleep*
Thesis Chair: *Anjolie Diaz, Ph.D.*

Bridgewater State University, Bridgewater, MA Graduated 2016
Bachelor of Science, Psychology
Cumulative GPA: 3.780, Program GPA 3.795, Magna Cum Laude

SCHOLARLY WORK

Peer Reviewed Publications

- Thompson, L., Kunicki, Z., Emrani, S., Strenger, J., De Vito, A., **Britton, K.**, Dion, C., Harrington, K., Roque, N., Salloway, S., Sliwinski, M., Correia, S., & Jones, R.N. (2023). Remote and in-clinic digital cognitive screening tools outperform the MoCA to distinguish cerebral amyloid status among cognitively healthy older adults. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 15(4), e12500. <https://doi.org/10.1002/dad2.12500>
- Howe, M. D., **Britton, K. J.**, Joyce, H. E., Pappas, G. J., Faust, M. A., Dawson, B. C., Riddle, M. C., & Salloway, S. P. (2023). Initial experiences with amyloid-related imaging abnormalities in patients receiving aducanumab following accelerated approval. *The Journal of Prevention of Alzheimer's Disease*, 10(4), 766-770. doi: 10.14283/jpad.2023.96
- Holtgraves, T., Bray, K., & **Britton, K.** (2023). How people perceive and talk about miscommunication. *Journal of Pragmatics*, 217, 1-13. <https://doi.org/10.1016/j.pragma.2023.09.011>
- Patten, R. V., Greif, T., **Britton, K.**, & Tremont, G. (2019). Single-photon emission computed tomography (SPECT) perfusion and neuropsychological performance in mild cognitive impairment. *Journal of Clinical and Experimental Neuropsychology*, 41(5), 530–543. doi: 10.1080/13803395.2019.1586838
- Britton, K.**, Galioto, R., Tremont, G., Chapman, K., Hogue, O., Carlson, M. D., & Spitznagel, M. B. (2018). Caregiving for a companion animal compared to a family member: Burden and positive experiences in caregivers. *Frontiers in Veterinary Science*, 5. doi: 10.3389/fvets.2018.00325
- Galioto, R., **Britton, K.**, Bond, D.S., Gunstad, J., Pera, V., Rathier, L., & Tremont, G. (2018). Executive functions are associated with weight loss during participation in a medically supervised weight loss program. *Obesity Medicine*, 9, 18-20. doi: 10.1016/j.obmed.2017.12.002

Van Patten, R., **Britton, K.**, & Tremont, G. (2018). Comparing the mini mental state examination and the modified mini mental state examination in the detection of mild cognitive impairment in older adults. *International Psychogeriatrics*, 1-9. doi: 10.1017/s1041610218001023

Book Chapters

* Indicates shared first authorship

***Britton, K.**, Hill, K., Willroth, E. (in press). Supporting the well-being of an aging global population: Associations between well-being and dementia. In Akinin, L., De Neve, J.E., Helliwell, J., Layard, R. (Eds). *2024 World happiness report*. Sustainable Development Solutions Network.

Submitted

Britton, K., Price, K., Caballerro, A., Ahmed, A., & Simon-Dack, S. L. (Submitted, October 2023) Examining the relationship between alcohol consumption, sleep quality, and neural processing efficiency during a simple interhemispheric transfer task in college students: and EEG study. *Journal of American College Health*.

In Preparation

Britton, K., De Vito, A., & Lee, A. (In preparation). Attitudes toward aging and subjective cognitive decline: The role of anxiety, depression, and race. *To be submitted to International Journal of Geriatric Psychiatry*.

Britton, K., Wruble, L., Bolin, J., & Simon-Dack, S. (Ready to submit). Depression, anxiety, and resilience during COVID-19: The role of pre-existing health diagnoses.

Howe, M. D., **Britton, K. J.**, Joyce, H. E., Menard, W., Emrani, S., Kunicki, Z. J., Faust, M. A., Dawson, B. C., Riddle, M. C., Huey, E. D., Janelidze, S., Hansson, O., & Salloway, S. P. (In preparation). Application of plasma P-tau217 to determine eligibility for amyloid-lowering immunotherapy in memory clinic patients with early Alzheimer's Disease. *To be submitted to Alzheimer's and Dementia*.

Professional Presentations

Howe, M. D., Emrani, S., **Britton, K. B.**, Joyce, H., Menard, W., Salloway, S. (December, 2023). *A Comparative Analysis of Plasma P-tau217 and Amyloid PET/CSF Testing to Improve Treatment Access*. Poster presented at American College of Neuropsychopharmacology Conference, Tampa, FL.

Britton, K., Hill, P., Bogdan, R., Oltmanns, T., & Willroth, E. (2023, November). *Indicators of Wellbeing and Self- and Informant- Reported Cognitive Decline in Older Adults*. Poster presented at the Gerontological Society of America Conference, Tampa, FL.

Howe, M. D., **Britton, K. J.**, Joyce, H. E., Pappas, G. J., Faust, M. A., Dawson, B. C., Riddle, M. C., & Salloway, S. P., Oh, H. (2023, July). *Initial Experiences with Amyloid Related Imaging Abnormalities in Patients Receiving Aducanumab Following Accelerated Approval*. Poster presented at the Alzheimer's Association International Conference, Amsterdam, Netherlands.

Howe, M. D., Emrani, S., Kunicki, Z. J., **Britton, K. J.**, Salloway, S. P., & Oh, H. (2023, July). *Utility of Accessible Neuroimaging Markers of Cerebrovascular Disease in Identifying Cerebral*

- Amyloidosis Across the Alzheimer's Disease Spectrum*. Poster presented at the Alzheimer's Association International Conference, Amsterdam, Netherlands.
- Britton, K.,** De Vito, A., & Calamia, M. (2023, February). *Face-to-face versus Telehealth Assessment Differences among Cognitively Healthy Older Adults and those with MCI*. Poster presented at the International Neuropsychological Society Conference, San Diego, CA.
- Britton, K.,** Roma, C., Rego, E., De Vito, A., Emrani, S., Lee, A. (2022, September). *Attitudes toward Aging and Subjective Cognitive Decline: The Mediating Role of anxiety and depression*. Poster presented virtually at Brown University Research Assistant Day, Providence, RI.
- De Vito, A., Kunicki, Z., **Britton, K.,** Correia, S., Thompson, L. (2022, March). *Intraindividual Variability on Cognitive Assessments Differs by Amyloidosis Status in Cognitively Normal Older Adults*. Poster presented at Brown University Mind Brain Research Day, Providence, RI.
- Britton, K.,** & Diaz, A. (2021, May). *The Importance of Health Behaviors: Increased Physical Activity and Sleep Quality Result in Better Prospective Memory*. Poster presented virtually at the Association for Psychological Science Conference.
- Britton, K.,** Grzywana, J., Caballero, A., Simon-Dack, S. (2021, April). *The Neurophysiological Impact of Sleep and Alcohol on Interhemispheric Transfer*. Poster presented virtually at the Midwestern Psychological Association Conference.
- Britton, K.,** Bray, K., Holtgraves, T. (2021, April). *Pardon my (mis)interpretation: Exploring types and reactions in miscommunication*. Poster presented virtually at the Midwestern Psychological Association Conference.
- Bray, K., **Britton, K.,** Holtgraves, T. (2021, April). *"I'd like you to do us a favor though": Conservative and Liberal Differences in the Interpretation of a Quid Pro Quo and Other Indirect Meanings*. Poster presented virtually at the Midwestern Psychological Association Conference.
- Tremont, G., Davis, J., **Britton, K.,** Kenney, L., Sanborn, V., Uebelacker, I., Ott, B. (2020, July). *A Pilot Trial of a Yoga Intervention versus Healthy Living Education for Mild Cognitive Impairment*. Poster to be presented at Alzheimer's Association International Conference, Amsterdam, Netherlands (Conference cancelled due to COVID-19).
- Asken, B., **Britton, K.,** Lee, A., Davis, J., Ott, B., Malloy, P., Salloway, S., Correia S. (2019, March). *Predicting Amyloid-Beta Deposition Using a Novel Cognitive Risk Score*. Poster presented at Brown University Mind Brain Research Day, Providence, RI
- Burke, E., Pillemer, S., Sofko, C., Kenney, L., **Britton, K.** & Tremont., G. (2019, March). *Family Intervention: Telephone Tracking—Caregiver (FITT-C) Implemented in a Clinical Setting: Taking C.A.R.E*. Poster presented at Brown University Mind Brain Research Day, Providence, RI
- Tremont, G., Davis, J., **Britton, K.,** Kenney, L., Sanborn, V., Uebelacker, L., Gillette, T., Becker, B., Ott, B.R. (2018, July). *Initial experience with a yoga intervention for mild cognitive impairment*. Poster presented at the Alzheimer's Association International Conference, Chicago, IL.
- Van Patten R., Tremont G., **Britton, K.** (2018, February). *Enhanced clinical utility of the modified mini mental state examination compared to the MMSE in older adults with mild cognitive impairment*. Poster presented at the International Neuropsychological Society Conference, Washington, D.C.
- Galioto, R., **Britton, K.,** Gunstad, J., Rathier, L., Pera, V., & Tremont, G. (2018, October). *Executive function training to improve weight loss*. Poster presented at the National Academy of Neuropsychology Conference, New Orleans, LA.
- Jameson, T. & **Britton, K.** (2017, May). *Metacognition and anxiety: A focus on mathematics and statistics anxiety*. Poster presented at the Association for Psychological Science 29th annual convention, Boston, MA.
- Britton, K.** & Jameson, T. (2016, April). *The role of metacognition in mathematics and statistics anxiety*. Poster presented at the Bridgewater State University spring symposium, Bridgewater, MA.

RESEARCH EXPERIENCE

Research Data Manager and Study Coordinator, Butler Hospital **2021-Present**
Memory and Aging Program

- **Butler Hospital Alzheimer's Disease Prevention Registry**
Responsibilities include database management for over 4,000 registrants including consistently updating biospecimen and imaging data, collaborating with internal investigators and external collaborators, implementing amendments to ensure optimal usability for registrants and staff, and training new staff.
- **Immunotherapy Biomarker Examination Across Time in Alzheimer's Disease**
Principal Investigators: Matthew Howe, M.D., Ph.D. & Stephen Salloway, M.D., M.S.
Responsibilities include participant recruitment, coordination and completion of study visits including administration of cognitive assessments, database creation and management, collaboration with Dr. Oskar Hansson's Lund University lab, and manuscript preparation.

Intern, Indiana University School of Medicine **9/2020-12/2020**
Department of Radiology and Imaging Sciences

- **Yoder Neuroimaging Laboratory**
Supervisor: Karmen Yoder, Ph.D.
Responsibilities included organization and processing of functional magnetic resonance imaging data using the Indiana University School of Medicine Neuroscience Connectivity Pipeline.

Lab Manager and Graduate Research Assistant, Ball State University **2019-2021**
Psychophysiological Attention, Cognition, and Emotion (P.A.C.E.) Lab

- **A Brain Study on the Impact of Sleep and Alcohol on Interhemispheric Transfer**
Principal Investigator: Stephanie Simon-Dack, Ph.D.
Responsibilities included capping procedures for use of electroencephalogram equipment, monitoring EEG signal quality, and cleaning and processing of EEG data with MatLab software.
- **An Unprecedented Experience: The Effects of Resiliency Strategies on Anxiety in Graduate Students During and After the COVID-19 Pandemic**
Principal Investigator: Lauren Wruble, M.C. & Stephanie Simon-Dack, Ph.D.
Examined the longitudinal effects of the COVID-19 pandemic on graduate students' behaviors, attitudes, resiliency, and ability to cope with , anxiety and stress. **Responsibilities** included study content conceptualization, survey creation using Qualtrics, data cleaning and analyses, and manuscript preparation.
- **Communication and Experimental Pragmatics Lab**
Principal Investigator: Thomas Holtgraves, Ph.D.
Graduate assistantship funded through the Department of Psychological Science for projects examining social and cognitive factors underlying miscommunication. **Responsibilities** included survey development, creation, and distribution using Qualtrics, MTurk, and Prolific, data analyses and manuscript preparation.

Graduate Volunteer, Ball State University **2019-2020**
Personality and Psychopathology Lab

- **Cognitive and Motivational Processes in Comorbid Alcohol and Depressive Disorders**

Principal Investigator: Tayla T.C. Lee, Ph.D.

Responsibilities included completing the study protocol with participants including the consent process, administering test measures, and scoring and norming test data. Attended bi-weekly supervision involving case conceptualization.

Clinical Research Assistant, Rhode Island Hospital

2016-2019

Neuropsychology Program

- **Pilot Trial of a Mind Body Intervention for Mild Cognitive Impairment**

Principal Investigator: Geoffrey Tremont, Ph.D. ABPP-CN

Examined the effects of different wellness programs such as Yoga and Healthy Living Education classes on mood, thinking, and quality of life in adults with mild cognitive impairment or mild dementia. **Responsibilities** included coordinating and managing classes for study participants and IRB management.

- **Does Executive Function Training Improve Outcomes of a Behavioral Weight Loss Program? A Pilot Study**

Principal Investigator: Rachel Galioto, Ph.D.

Examined whether the addition of computerized executive function training program to a behavioral weight loss intervention yielded superior weight loss outcomes. **Responsibilities** included database creation and maintenance, participant recruitment, pre and post intervention assessment, technology set up for Brain HQ and NIH Toolbox for assessment and participant conditions, scoring and interpretation of data, and IRB management.

- **Emotional Response in Older Adults with Mild Cognitive Impairment and Cognitively-Healthy Older Adults**

Principal Investigator: Jennifer Davis, Ph.D., ABPP-CN

Examined differences in trajectories of subjective emotional response, from reactivity through recovery, to negative mood induction in older adults with mild cognitive impairment relative to cognitively healthy older adults. **Responsibilities** included IRB management, participant recruitment, and assessment administration and scoring.

Undergraduate Research Assistant, Bridgewater State University

2015-2016

Psychology Department

- **The Role of Metacognition in Mathematics and Statistics Anxiety**

Supervisor: Tina Jameson, Ph.D.

Examined the potential relationship between mathematics anxiety, statistics anxiety, and metacognitive awareness. **Responsibilities** included entering study survey information using SONA database and collecting and analyzing data.

CLINICAL EXPERIENCE

Psychometrist

2016-2019

Neuropsychology Program, Rhode Island Hospital, Providence, RI

Supervisor: Geoffrey N. Tremont, Ph.D., ABPP-CN

- Conducted weekly neuropsychological evaluations with outpatients in a hospital setting. Patients presented with neurodegenerative disease, traumatic brain injury, epilepsy, and psychiatric disorders.
- Scored, normed, and prepared assessment results for inclusion in neuropsychological reports

- Conducted monthly neuropsychological evaluations at the Rhode Island Adult Correctional Institutions with inmates.
- Assisted with WADA testing

RELATED EXPERIENCE/ TEACHING & ADVISING

Teaching Assistant, Brown University **2017**

Supervisor: Rachel Galioto, Ph.D.

Created and graded quizzes and final exam for a pre-college course for Introduction to Neuropsychology. Created guidelines for group presentations.

Peer Assisted Learner Program, Bridgewater State University **2014-2015**

Supervisor: Tina Jameson, Ph.D.

Tutored students in a Statistics for Psychology course. Assisted the professor during classes and attended weekly meetings with the professor to discuss study sessions and students' progress.

Inclusive Concurrent Enrollment Program (ICE), Bridgewater State University **2015**

Mentored students ages 18-22 with intellectual disabilities. Provided guidance in their life and career goals and integrated students with on-campus activities and events.

Massachusetts Aggression Reduction Center (MARC), Bridgewater State University **2014-2016**

Co-led workshops where K-12 students came to the Bridgewater State University campus to learn about bullying and cyber bullying. Assisted in the yearly MARC Youth Summit and in marketing the program through various fundraising events.

Psychology Department Office, Bridgewater State University **2012-2016**

Performed administrative duties and assisted students and faculty.

TESTS ADMINISTERED

American National Reading Test	Mini Mental State Examination/ 3MS
Animal Fluency	Minnesota Cognitive Acuity Screen
Beck Anxiety Inventory	Minnesota Multiphasic Personality Inventory-II-RF
Beck Depression Inventory-II	Montreal Cognitive Assessment
Booklet Category Test	Neuropsychological Assessment Battery
Boston Naming Test	NIH Examiner Battery
Brief Rating Inventory of Executive Function	NIH Toolbox for the Assessment of
Brief Visuospatial Memory Test-R	Neurological and Behavioral Function
California Verbal Learning Test-II	Paced Auditory Serial Addition Test
Clock Drawing Test	Purdue Pegboard
Color Trails Test	Pyramids and Palm Trees Test
Connor's Continuous Performance Test-II	Repeatable Battery for the Assessment of
Controlled Oral Word Association Test	Neuropsychological Status Update

Cookie Theft Picture	Rey-Osterrieth Complex Figure
Coping Flexibility Scale	Short Category Test
Dementia Rating Scale-2	State-Trait Anxiety Inventory
Everyday Cognition Scale	Stroop Color Word Test
Geriatric Depression Scale	Test of Memory Malingering
Greens Word Memory Test	Test of Premorbid Functioning
Grooved Pegboard	The b Test
Grip Strength	Trail Making Test A and B
Hopkins Verbal Learning Test	Wechsler Abbreviated Scale of Intelligence-II
Judgement of Line Orientation	Wechsler Adult Intelligence Scale-IV
Language Screening	Wechsler Memory Scale-4
Lawton-Brody Activities of Daily Living Scale	Wide Range Achievement Test-4
Medical Symptom Validity Test	Wisconsin Card Scoring Test

PROFESSIONAL AFFILIATIONS

2023-Present	Gerontological Society of America (GSA)
2020-Present	Midwestern Psychological Association (MPA)
2017-Present	Association for Psychological Science (APS)
2014-2016	Psi Chi Honor Society, Bridgewater State University, Bridgewater MA

HONORS, AWARDS, AND GRANTS

2020	Hollis Fund Research Grant (Ball State University)	\$500
2019	Ball State University Travel Grant	\$150
2016	Bridgewater State University Award for Student Excellence	
2015	Office of Study Abroad Travel Assistance Award	\$1,000
2013-2016	Dean's List	

TECHNICAL SKILLS

SPSS, R, REDCap, Qualtrics, Biosemi, MatLab, Microsoft Office