

MOLLY MEMEL, PH.D., ABPP

Board Certified in Clinical Neuropsychology

Licensed Psychologist PSY32398

EDUCATION

UNIVERSITY OF ARIZONA, PH.D.

May 2019

College of Letters and Science, GPA: 4.0

Clinical Psychology, Neuropsychology Track, College of Science

Advisor: Lee Ryan, Ph.D.

UNIVERSITY OF CALIFORNIA BERKELEY, B.A.

May 2013

College of Letters and Science, Graduated High Honors

Bachelors of the Arts in Cognitive Science, Emphasis: Neuroscience and Psychology

Advisor: Robert Knight, M.D.

RECENT CLINICAL EXPERIENCE

RAY DOLBY BRAIN HEALTH CENTER

January 2022 –Present

SUTTER/ CALIFORNIA PACIFIC MEDICAL CENTER

Neuropsychologist

Conduct outpatient neuropsychological assessments for older adults with various neurological, medical and psychiatric comorbidities; Serve as a member of a multidisciplinary team of neurologists, geriatricians, neuropsychologists, and social workers

NORTHERN CALIFORNIA VA SYSTEM

September 2021 –January 2022

Staff Neuropsychologist, Geriatric Clinic

Contribute to the development of a multidisciplinary Geriatrics clinic; Conduct neuropsychological and capacity assessments; Provide consultation services to geriatricians, social workers, pharmacists, and other team members

SAN FRANCISCO VA MEDICAL CENTER/ UCSF

September 2019 –2021

Clinical Neuropsychology Postdoctoral Fellow

Conduct neuropsychological assessments and provide consultation to medical providers in the outpatient neuropsychology clinic, TBI clinic, Neurology Memory Clinic and Movement Disorders clinic, UCSF Memory and Aging Center, and UCSF Epilepsy Clinic

Supervisors: Johannes Rothlind, Ph.D., Nicole Crocker, Ph.D., Joel Kramer, Psy.D., ABPP-CN, Brandon Kopald, Psy.D., ABPP-CN

BOSTON VETERANS AFFAIRS HEALTHCARE SYSTEM

August 2018-2019

Neuropsychology Intern

Conducted clinical interviews, administered patient-specific neuropsychological batteries, scored neuropsychological testing, wrote integrative reports, and conducted feedback sessions. Performed neuropsychological assessments, capacity evaluations, and brief therapeutic interventions through the Geropsychology clinic. Co-leader of a weight loss management support group through Behavioral Medicine.

Primary Supervisor: Susan McGlynn, Ph.D., ABPP-CN

RESEARCH EXPERIENCE

UCSF MEMORY AND AGING CENTER

September 2019 – 2021

Principal Investigator: Joel Kramer, Psy.D., ABPP-CN

Projects: 1) A study investigating the interaction between *APOE* status and hippocampal blood flow on pattern separation performance in healthy older adults 2) Several studies investigating the moderating effect of physical activity on the relationship between AD risk factors and longitudinal trajectories of cognitive and brain aging.

BOSTON VA MEMORY DISORDERS RESEARCH CLINIC

August 2018- 2019

Principal investigator: Mieke Verfaellie, Ph.D.

Projects: A behavioral study of differences in autobiographical memory for negative events in individuals with and without PTSD.

UNIVERSITY OF ARIZONA

August 2013-2019

Graduate Researcher

Cognition and Neuroimaging Laboratory

Principal Investigator: Lee Ryan, Ph.D.

Projects: 1) An fMRI study that investigated age-related changes in associative memory and the mnemonic benefit of visual integration 2) A diffusion weighted imaging (DWI) analysis of frontotemporal white matter integrity in aging adults

Responsibilities: MRI scanning, preprocessing and analysis of magnetic resonance brain images, behavioral and neuropsychological testing, supervising research assistants in behavioral studies.

TEACHING EXPERIENCE

UNIVERSITY OF SAN FRANCISCO

Fall 2021-Present

Adjunct Professor

School of Nursing and Health Professions, Psychology Doctoral Program

Serve on multiple neuropsychology-oriented dissertation committees and teach the following graduate level courses: Clinical Neuropsychology, Intellectual Assessment, Personality Assessment, Cognitive and Affective Bases of Behavior

UCSF MEDICAL SCHOOL

October 2019 & 2020

Taught an interactive group course on cognitive domains for first year medical students

UNIVERSITY OF ARIZONA

Fall 2013-Fall 2017

Teaching Assistant

Courses Include: Introduction to Psychology, Abnormal Psychology, Learning and Behavior, Clinical Neuropsychology, Health Psychology, Clinical Psychology Assessment Practicum (Graduate Level)

Instructor, Abnormal Psychology

Summer 2017

Developed course materials and served as the instructor for an online course

Instructor, Human Memory

Summer 2014, 2015, 2016

Developed course materials and served as the instructor for a 3-week intensive online course

PUBLICATIONS

- Memel M.**, Buchman A.S., Bennett D.A., Casaletto K. (2021). Relationship between objectively measured physical activity on neuropathology and cognitive outcomes in older adults: Resistance versus resilience? *Alzheimers Dement* 13(1):e12245. doi: 10.1002/dad2.12245. PMID: 34692982; PMCID: PMC8515358.
- Memel, M.**, & Kramer, J.H. (2021). Frontotemporal Dementia in A Handbook of Geriatric Neuropsychology Practice Essentials: 2nd Edition. Routledge.
- Memel, M.**, Lynch, K., Lafleche, G., & Verfaellie, M. (2021). Autobiographical recall of a deployment-related traumatic event in Veterans with PTSD. *Memory*.
- Memel, M.** Staffaroni, A.M., Cobigo, Y., Casaletto, K.B., Betcher, B.M., Yassa, M.A., Elahi, F.M., Wolf, A., Rosen, H.J. & Kramer, J. (2021). *APOE* moderates the effect of hippocampal blood flow on memory pattern separation in clinically normal older adults. *Hippocampus*.
- Memel, M.**, Chen, D., & Kramer, J.H. (2020). Frontotemporal Dementia in the APA Handbook of Neuropsychology. American Psychological Association.
- Casaletto K.B., Lindbergh C., **Memel M.**, Staffaroni A., Elahi F., Weiner-Light S., You M., Fonseca C., Karydas A., Jacobs E., Dubal D.B., Yaffe K., Kramer J.H. (2020). Sexual dimorphism of physical activity on cognitive aging: Role of immune functioning. *Brain, behavior, and immunity*. 88: 699-710. doi: 10.1016/j.bbi.2020.05.014.
- Memel, M.**, Wank, A. A., Ryan, L., & Grilli, M. D. (2019). The Relationship Between Episodic Detail Generation and Anterotemporal, Posteromedial, and Hippocampal White Matter Tracts. *Cortex*.
<http://doi.org/https://doi.org/10.1016/j.cortex.2019.10.010>
- Memel, M.**, Woolverton, C., Bourassa, K., & Glisky, E. (2018). Working memory predicts subsequent episodic memory decline during healthy cognitive aging: Evidence from a cross-lagged panel design. *Aging, Neuropsychology, and Cognition*.
- Memel, M.** & Ryan, L. (2018). Visual integration of objects and scenes increases recollection-based responding with differential age effects in MTL recruitment. *Hippocampus*. DOI:10.1002/hipo.23011
- Memel, M.** & Ryan, L. (2017). Visual integration enhances associative memory in young and Visual integration enhances associative memory equally for young and older adults without reducing hippocampal encoding activation. *Neuropsychologia*.
<http://dx.doi.org/10.1016/j.neuropsychologia.2017.04.031>
- Memel, M.**, Bourassa, K., Woolverton, C., & Sbarra, D. A. (2016). Body Mass and Physical Activity Uniquely Predict Change in Cognition for Aging Adults. *Annals of Behavioral Medicine : A Publication of the Society of Behavioral Medicine*, 50(3), 397–408. <http://doi.org/10.1007/s12160-015-9768-2>
- Bourassa, K. J., **Memel, M.**, Woolverton, C., & Sbarra, D. A. (2015). Social participation predicts cognitive functioning in aging adults over time: comparisons with physical health, depression, and physical activity. *Aging & Mental Health*, 1–14. <http://doi.org/10.1080/13607863.2015.1081152>
- Bourassa, K. J., **Memel, M.**, Woolverton, C., & Sbarra, D. A. (2015). A dyadic approach to health, cognition, and quality of life in aging adults. *Psychology and Aging*, 30(2), 449-461. doi:10.1037/pag0000025

Memel, M., Casaletto, K., & Kramer, J.H. (2020). Medial Temporal Contributions to Learning, Retrieval, and Accuracy Monitoring in Verbal Memory. Presented at: Alzheimer's Association International Conference. 2020 July J7-31. Virtual Conference.

Memel, M., Wank, A., Ryan, L., & Grilli, M. The relationship between episodic autobiographical memory detail generation and the integrity of MTL-cortical white matter pathways in cognitively normal older adults. Presented at International Neuropsychological Society: Annual meeting: 2019 February 20-23. New York, NY.

Memel, M. & Ryan, L. Visual Integration of Objects and Scenes Results in Age-Specific Changes in Hippocampal and Parahippocampal Contributions to Successful Memory Retrieval. Poster presented at: International Neuropsychological Society: Annual meeting: 2018 February 14-17. Washington D.C.

Memel, M. & Ryan, L. Contributions of Visual Integration and Frontotemporal White Matter Integrity to Associative Memory in Older Adults. Poster presented at: International Neuropsychological Society: Annual meeting: 2017 February 1-4. New Orleans, Louisiana.

Memel, M. & Ryan, L. An fMRI analysis of visual unitization and the age-related associative memory deficit. Poster presented at: Society for Neuroscience. Annual meeting: 2016 November 12-15. San Diego, California.

Memel, M., Ritchie, H., Ryan, L. The Role of Visual Integration and Working Memory in Age-Related Associative Memory Deficits. Poster presented at: International Neuropsychological Society. Annual meeting: 2016 Feb 3-5.

Ritchie, H., **Memel M.,** & Ryan, L. The Relationship Between Lifestyle Activities and Updating Ability in an Older Adult Population. Arizona Cognitive Science Conclave. 2015 December 5.

Palmarozza, M., **Memel, M. &** Ryan, L. The Relationship Between Age, Gender, Percent Body Fat, and Executive Functioning in Older Adults. Arizona Cognitive Science Conclave. 2015 December 5.

Memel, M., Ryan, L., Age-related deficits in a hippocampal-mediated visual associative memory task: integration or segmentation?. Poster presented at: Society for Neuroscience. Annual meeting: 2014 November 15-19. Washington D.C.

Cooke, K., Kawa K., **Memel M.B.,** Ryan, L. Differential effects of context shifts on object recognition and source memory in older adults. Poster presented at: Cognitive Aging. Annual meeting: 2014 April 3-6. Atlanta, Georgia.

Stoloff R.H., **Memel M.B.,** Ivry R.B. Choosing between targets and effectors: a reinforcement learning approach. Poster presented at: Society for Neuroscience. Annual meeting: 2011 November 12-16. Washington D.C.

Stoloff, R.H., **Memel M.B.,** Ivry R.B. Which object, which hand? Reinforcement learning in choosing between targets and effectors. Poster presented at: Progress in Motor Control; 2011 July 21-23; Cincinnati, OH.

CONFERENCE PRESENTATIONS

Memel, M., Hoang, T., Baborik, A., Hillier, T. & Yaffe, K. (May 2021). Late life social factors and cognitive aging in women. UCSF Dementia Day. Virtual event.

Memel, M., Buchman, A., Bennett, D. & Casaletto, K. (February, 2021). Resistance versus Resilience – Effects of objectively measured physical activity on neuropathology and cognitive outcomes in older adults. Presented at the International Neuropsychological Society. Virtual event.

Bourassa, K. J., **Memel, M.,** Woolverton, C., & Sbarra, D. A. (January, 2016). A dyadic approach to health, cognition, and quality of life in aging adults. Presented at the Society for Personality and Social Psychology 17th annual meeting, San Diego, CA

Memel, M., Ryan, L. (October, 2014). Age-related changes in integration and segmentation processes – an investigation of contextual memory. Arizona Psychological Convention Association. Tucson, Arizona.

AWARDS/GRANTS

P.E.O Scholar Award Nominee	October 2017
Graduate & Professional Student Council Travel Grant	September 2016
Arizona Neuropsychological Society Student Poster Session, First Prize	November 2014
Graduate & Professional Student Council Research and Project Grant	March 2014

Received a competitive grant that was used to compensate participants on my master's project, "The effects of aging on visual associative memory"

OUTREACH/ PROFESSIONAL ACTIVITIES

Ad-Hoc Reviewer

Journal of the International Neuropsychological Society, Neurobiology of Aging
Co-reviewer: *Journal of Alzheimer's Disease; Alzheimer's & Dementia, Neuropsychology, Neuropsychological Review, Journal of Neurology, Neurosurgery, and Psychiatry, Journal of the International Neuropsychological Society*

Externship Advisory Committee

August 2016-2018

Served as an intermediary between clinical students and the director of clinical training in ensuring that students were satisfied with their externship placements, number of hours, and relationship with supervisors. Assisted in organizing internship preparatory meetings and externship placement meetings.

Lecturer at Brookdale Senior Living Center

October 2015

Lectured a group of older adults on the results of my master's project and brain changes associated with healthy aging

Volunteer for Tucson Medical Center's Concussion Discussions

March 2015

Assisted in demonstrations of the IMPACT test and provided psychoeducation on cognitive changes resulting from concussion.

ALZHEIMER'S ASSOCIATION

January 2014-2015

Support Group Co-facilitator

Volunteered as a co-facilitator for a bi-monthly support group geared towards care-takers, family members, and individuals with Alzheimer's disease. This involved preparing presentations on the progression of Alzheimer's disease, and creating a database with resources available to affected individuals and their families.

PROFESSIONAL AFFILIATIONS

International Neuropsychological Society, Student Affiliate
Society for Neuroscience, Student Affiliate

2016-Present
2013-2017