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EDUCATION AND RESEARCH EXPERIENCE

2023 - pres. Associate Professor
Department of Psychology, University of California, Riverside
Participating faculty member: Graduate Program in Neuroscience; Graduate Program in Genetics, Genomics and Bioinformatics

2016 - 2023 Assistant Professor
Department of Psychology, University of California, Riverside
Participating faculty member: Graduate Program in Neuroscience

2013 - 2016 Assistant Project Scientist
Center for the Neurobiology of Learning and Memory
Department of Neurobiology and Behavior, University of California, Irvine
Mentor: Craig Stark, Ph.D.

2009 - 2012 Postdoctoral Research Fellow
Center for Brain Health, University of Texas at Dallas
School of Behavioral & Brain Sciences, University of Texas at Dallas
Mentor: Bart Rypma, Ph.D.

2004 - 2009 Ph.D., Lifespan Cognitive Neuroscience Program
Department of Psychology, Georgetown University
Mentor: Darlene Howard, Ph.D.

2002 - 2004 Research Assistant
Department of Neurology, University of California, Irvine
Mentor: Arnold Starr, M.D.

1998 - 2002 B.A., Psychology with Honors (*Magna Cum Laude*)
Department of Cognitive Sciences, University of California, Irvine
Mentor: Donald Hoffman, Ph.D.

RESEARCH INTERESTS

My research seeks to identify sensitive magnetic resonance imaging (MRI) markers of brain aging and demonstrate how they contribute to individual and age-related differences in learning and memory processes. Interrelated lines of research (1) use diffusion-weighted MRI to assess microstructural properties of white and gray matter and the extent to which these diffusion metrics reflect age-related neuroinflammation and cerebrovascular disease and are impacted by age-related iron accumulation, (2) examine the neuromodulatory role of the locus coeruleus in brain aging and cognitive aging, and (3) investigate structural and functional MRI correlates of mnemonic discrimination, associative memory, and associative learning.

RESEARCH GRANTS

External Grants

05/25 - 04/30 NIH/NIA R01 AG088306 $3,483,938
PIs: Bornstein, **Bennett**
Memory-guided planning across the lifespan. This project aims to test whether the declines in decision making with age are related to cognitive and neurobiological components of memory decline.

04/25 - 03/28 NSF
PI: Wu co-PIs: **Bennett**, Kurum $699,836
Interrupted learning in older adulthood: Investigating how learning opportunities during retirement predicts learning ability, cognition, and brain structure. The proposed project will investigate how learning opportunities, activity challenge, and activity variety for working or retired older adults predicts learning ability (Aim 1), other cognitive abilities (Aim 2), and brain structure (Aim 3).

09/23 - 08/26 NIH/NIA R21 AG080282 $433,125
PIs: **Bennett**, Hu
MRI biomarkers of glial-specific metabolites and microstructure in aging. This project aims to test whether diffusion-weighted magnetic resonance spectroscopy can measure glial-specific neuroinflammation in aging.

06/23 - 05/26 NIH/NIA R01 AG046938 Subaward $114,460
PIs: Reynolds/Wadsworth co-I and site PI: **Bennett**
Colorado Adoption/Twin Study of Lifespan behavioral development & cognitive aging (CATSLife2). This project aims to study how early and current influences accumulate over one's life to impact how well individuals build and maintain cognitive functioning.

05/23 - 04/25 NIH/NIA R01 AG072607 Administrative Supplement $388,699
PIs: Hu, Seitz co-Is: **Bennett**, Peters, Zhang
How LC Integrity in Older Adults Mediates Perceptual and Memory Processes. This supplement aims to add a cohort of people Aging with HIV to our currently funded project examining the role of locus coeruleus structure and function to cognition in aging.

07/22 - 06/27 NIH/NIGMS T34 GM164437 $1,442,395
PI: Ford, Herrick Participating mentor: **Bennett**
Bridges to the Baccalaureate Research Training Program at University of California, Riverside. This Bridges to the Baccalaureate (B2B) research education program seeks to facilitate transfer of community college students into university biomedical and behavioral science majors, with the ultimate goal of increasing participation of underrepresented in medicine and science (URiMS) groups in research-oriented careers in these areas.

08/21 - 07/26 NIH/NIGMS T32 GH137812 $861,100
PI: Buckley-Nieves Participating mentor: **Bennett**

Integration of Research, Mentoring and Professional Skill Building for Master's Students to Bridge to a PhD Program in Biomedical Science. This project aims to increase the number of Master's students from underrepresented racial and ethnic groups, from low socio-economic backgrounds, and those with disabilities successfully transitioning to PhD programs in biomedical research.

05/21 - 04/26 NIH/NIA R01 AG072607 $3,314,055
PIs: Hu, Seitz co-Is: **Bennett**, Peters, Zhang
How LC Integrity in Older Adults Mediates Perceptual and Memory Processes. This project aims to test the role of locus coeruleus structure and function to cognition in aging.

07/21 - 06/24 NIH/NIA F31 AG071189 $120,403
PI: Klippenstein Mentor: **Bennett**
Structural and functional substrates of associative memory load in aging. This project aims to assess the contribution of hippocampal structure and function to associative memory deficits in aging.

07/20 - 06/21 Hellman Family Foundation Hellman Fellowship $30,000
PI: **Bennett**
What happens to future decisions when we forget the past? This project assessed whether age-related declines in episodic memory performance contributed to age-related declines in reinforcement learning.

05/17 - 04/20 NIH/NIA R21 AG054804 $232,430
PI: **Bennett**
Multi-compartment diffusion imaging of hippocampal white and gray matter in aging. This project tested age differences in the neurobiological substrates of hippocampal white and gray matter using high-resolution multi-compartment diffusion imaging.

09/16 - 05/20 NIH/NIA R00 AG047334 $503,987
PI: **Bennett**
High-resolution multimodal imaging of episodic memory networks in aging. This project used high-resolution DTI and fMRI in older and oldest-old adults to assess the contributions of medial temporal and striatal white matter to mnemonic discrimination.

04/14 - 06/16 NIH/NIA K99 AG047334 $196,059
PI: **Bennett**
High-resolution multimodal imaging of episodic memory networks in aging. This project used high-resolution DTI and fMRI in younger and older adults to assess the contributions of medial temporal and striatal white matter to mnemonic discrimination.

12/10 - 11/12 NIH/NIA F32 AG038299 $98,932
PI: **Bennett**
The role of white matter integrity in neural efficiency and cognitive aging. This project combined DTI and fMRI in younger and older adults to

assess the contribution of white matter integrity to neural efficiency, and their combined role in age-related working memory declines.

08/07 - 08/09 NIH/NIA F31 AG030874 $58,215
PI: **Bennett**
Aging, implicit learning, and white matter integrity. This project investigated the relationship between two forms of implicit learning and white matter microstructure in younger and older adults.

Internal Grants

07/25 - 06/27 UCR Committee on Research Grant (CoR) $4,000
PI: **Bennett**
Central and Peripheral Markers of Neuroinflammation. This project examines whether DW-MRS measures of central neuroinflammation are related to commonly used peripheral markers of inflammation.

01/24 - 03/24 UCR CHASS Dean's Office and Center for Ideas and Society $1,500
PI: **Bennett**
Aging and your Brain: Advancing Aging Research at UCR. This award supported a community-focused symposium about aging research and initiatives at UCR.

07/23 - 06/25 UCR Committee on Research Grant (CoR) $5,000
PI: **Bennett**
Aging and Associative Memory. This project examines whether age group differences in associative memory are due to working memory.

07/22 - 06/23 UCR Center for Ideas and Society Working Group Award $3,000
PIs: **Bennett**, Kaul
Working group to advance aging research at UCR. This award supported a year-long exploration of structures needed to grow the UCR Aging Initiative and areas of research that best address the diverse needs of our local aging population.

12/19 - 06/21 UCR Center for Health Disparities Research Interdisciplinary Research Working Group $5,000
PIs: **Bennett**, Seitz
Working group on underrepresented participant recruitment barriers. This award supported a working group tasked with identify barriers to recruitment of individuals from underrepresented backgrounds and to overcome these barriers through outreach in the Riverside community.

04/18 - 04/19 UCR Center for Advanced Neuroimaging Pilot Project Award $5,000
PIs: **Bennett**, Wu
Neuroplasticity from optimizing learning environments for older adults. This award provided 10 scan hours to pilot a project examining effects of a 3-month learning intervention on brain structure in healthy older adults.

01/18 - 06/18 UCR Undergraduate Education Teaching and Learning Grant $5,000
PI: **Bennett**

Human neuroimaging training for UCR undergraduates. This award provided 10 scan hours for hands-on training in neuroimaging acquisition and analysis in the Spring 2018 Human Neuroimaging laboratory course.

10/17 - 10/18 UCR Center for Advanced Neuroimaging Pilot Project Award $5,000
PIs: **Bennett**, Mednick
Neural correlates of pattern separation using targeted memory reactivation during sleep. This award provided 10 scan hours to pilot a project examining the neural correlates of memory performance enhanced by offline targeted memory reactivation during sleep.

07/10 - 12/12 Friends of Brain Health Distinguished New Scientist Award $25,000
PI: **Bennett**
Neural markers of Mild Cognitive Impairment. This project tested whether MRI measures of brain structure and function could be used to identify individuals with amnestic MCI.

09/06 - 08/07 Georgetown University Pilot Brain Imaging Study Award $8,000
PIs: **Bennett**, Howard
Aging, Implicit Learning, and Imaging. This award provided half-price imaging rates to collect MRI data.

HONORS AND AWARDS

08/23 Fellow, Center for the Neurobiology of Learning and Memory; UC Irvine
08/17 CHASS Proposal Incentive Plan Award, Univ. of California, Riverside, $1000
05/11 Harold N. Glassman Dissertation Award in the Sciences, Georgetown University
03/09 Georgetown University Graduate School Conference Travel Grant, $500
10/07 Georgetown University Graduate School Conference Travel Grant, $407
07/07 Early Career Researcher Award, Cognitive Aging Conference, $500 AUS
11/01 Psi Chi Honors in Psychology
11/00 Golden Key National Honors Society

PUBLICATIONS

*Note. Mentored ***postdoctoral, **graduate, and *undergraduate student authors*

Submitted Manuscripts and Preprints (5 total)

1. Bruellman, R.**, Pahlen, S., Ellingson, J.M., Corley, R.P., Wadsworth, S.J., **Bennett, I.J.**, Reynolds, C.A. (under review). Evaluating the comparability of moderate to vigorous intensity physical activity on health biomarkers in established adulthood: A twin substitution analysis.
2. Sanchez, D.L.**, **Bennett, I.J.** (under review). Normalization Method for Relative Cerebral Blood Flow Influences. *PsyArXiv*.
3. Langley, J., Sumanth, D., **Bennett, I.J.**, Hu, X. (under review). Striatal tau burden is increased in APOE-ε4+ mild cognitive impairment. *medRxiv*.

4. Langley, J., Solis, K., Masjedizadeh, V., Shao, M., **Bennett, I.J.**, Hu, X. (under review). Associations between iron and mean kurtosis in iron-rich grey matter nuclei in aging.
5. Ghaffari, A., Abouzaki, M., Romero, Y., Sun, A., Seitz, A., Langley, J., **Bennett, I.J.**, Hu, X. (under review). Connectome-based predictive modelling predicts frailty levels in older adults.

Peer Reviewed Journal Articles (42 total)

1. Greenman, D.**, **Bennett, I.J.** (2025). Aging of gray matter microstructure: A brain-wide characterization of age group differences using NODDI. *Neurobiology of Aging*, 149, 34-43.
2. **Bennett, I.J.**, Langley, J., Sun, A.**, Solis, K.*, Seitz, A.R., Hu, X. (2024). Locus coeruleus contrast and diffusivity metrics differentially relate to age and memory performance. *Scientific Reports*, 14, 15372.
3. Langley, J., Huddleston, D.E., **Bennett, I.J.**, Hu, X. (2024). Examining iron-related off-target binding effects of 18F-AV1451 PET in cortex of AB+ individuals. *European Journal of Neuroscience*, 60, 3614-3628.
4. Petok, J.R., Merenstein, J.L.**, **Bennett, I.J.** (2024). Iron content affects age group differences in associative learning-related fMRI activity. *Neuroimage*, 284, 120478.
5. Ibrahim, K.*, **Bennett, I.J.** (2023). Hippocampal microstructure, but not macrostructure, mediates age differences in episodic memory. *Frontiers of Aging Neuroscience*, 15, 1285375.
6. Noh, S.M., Singla, U.K., **Bennett, I.J.**, Bornstein, A.M. (2023). Memory precision and age differentially predict the use of decision-making strategies across the lifespan. *Scientific Reports*, 13, 17014.
7. Merenstein, J.L.**, Corrada, M.M., Kawas, C.H., **Bennett, I.J.** (2023). White matter microstructural correlates of associative learning in the oldest-old. *Cognitive, Affective, & Behavioral Neuroscience*, 23, 114-124.
8. Franco, C.*, Alcaraz-Torres, A.*, **Bennett, I.J.** (2023). The QuadMax Task: A novel parametric manipulation of associative memory load in adults across the lifespan. *Experimental Aging Research*, 49, 321-333.
9. Granger, S.J., Colon-Perez, L., Larson, M.S., **Bennett, I.J.**, Phelan, M., Keator, D.B., Janecek, J.T., Sathishkumar, M.T., Smith, A.P., McMillan, L., Greenia, D., Corrada, M.M., Kawas, C.H., Yassa, M.A. (2023). Reduced structural connectivity of the medial temporal lobe including the perforant path is associated with aging and verbal memory impairment. *Neurobiology of Aging*, 121, 119-128.
10. Glenn, D.E., Merenstein, J.L.**, **Bennett, I.J.** Michalska, K.J. (2022). Anxiety symptoms and puberty interactively predict lower cingulum microstructure in preadolescent Latina girls. *Scientific Reports*, 12, 20755.
11. Merenstein, J.L.**, **Bennett, I.J.** (2022). Bridging patterns of neurocognitive aging across the older adult lifespan. *Neuroscience & Biobehavioral Reviews*, 135, 104594.

12. Radhakrishnan, H., **Bennett, I.J.**, Stark, C.E.L. (2022). Higher-order multi-shell diffusion measures complement tensor metrics and volume in gray matter when predicting age and cognition. *NeuroImage*, 253, 119063.
13. Merenstein, J.L.**, Petok, J.R., **Bennett, I.J.** (2022). Age group differences in learning-related activity reflect task stage, not learning stage. *Behavioral Brain Research*, 416, 113570.
14. Langley, J., Hussain, S., Huddleston, D.E., **Bennett, I.J.**, Hu, X. (2022). Impact of locus coeruleus and its projections on memory and aging. *Brain Connectivity*, 12, 223-233.
15. Venkatesh, A.**, Daugherty, A.M., **Bennett, I.J.** (2021). Neuroimaging measures of iron and gliosis explain memory performance in aging. *Human Brain Mapping*, 42, 5761-5770.
16. Merenstein, J.L.**, Corrada, M.M., Kawas, C.H., **Bennett, I.J.** (2021). Age affects white matter microstructure and episodic memory across the older adult lifespan. *Neurobiology of Aging*, 106, 282-291.
17. Shokri-Kojori, E., **Bennett, I.J.**, Tomeldon, Z.A., Krawczyk, D.C., Rypma, B. (2021). Estimates of brain age for gray matter and white matter in younger and older adults: Insights into human intelligence. *Brain Research*, 1763, 147431.
18. Franco, C.Y.*, Petok, J.R., Langley, J., Hu, X., **Bennett, I.J.** (2021). Implicit associative learning relates to basal ganglia gray matter microstructure in young and older adults. *Behavioural and Brain Research*, 397, 112950.
19. Venkatesh, A.**, Stark, S.M., Stark, C.E.L. **Bennett, I.J.** (2020). Age- and memory-related differences in hippocampal gray matter integrity are better captured by NODDI compared to single-tensor diffusion imaging. *Neurobiology of Aging*, 96, 12-21.
20. Houston, J.R., Hughes, M.L., **Bennett, I.J.**, Allen, P.A., Rogers, J.M., Lien, M., Stoltz, H., Sakaie, K., Loth, F., Maleki, J., Vorster, S.J., Luciano, M.G. (2020). Evidence of neural microstructure abnormalities in Type I Chiari Malformation: Associations between fiber tract integrity, pain, and cognitive dysfunction. *Pain Medicine*, 21, 2323-2335.
21. Klippenstein, J.L.**, Stark, S.M., Stark, C.E.L. **Bennett, I.J.** (2020). Neural substrates of mnemonic discrimination: A whole-brain fMRI investigation. *Brain and Behavior*, 10, e01560.
22. Langley, J., Hussain, S., Flores, J.J.*, **Bennett, I.J.**, Hu, X. (2020). Characterization of age-related microstructural changes in locus coeruleus and substantia nigra pars compacta. *Neurobiology of Aging*, 87, 89-97.
23. **Bennett, I.J.**, Stark, S.M., Stark, C.E.L. (2019). Recognition memory dysfunction relates to hippocampal subfield volume: A study of cognitively normal and mildly impaired older adults. *Journal of Gerontology: Psychological Sciences*, 74 (7), 1132-1141.
24. **Bennett, I.J.**, Greenia, D.E., Maillard, P., Sajjadi, S.A., DeCarli, C., Corrada, M.M.,

Kawas, C.H. (2017). Age-related white matter integrity differences in oldest-old without dementia. *Neurobiology of Aging*, 56, 108-114.

25. Turner, M.P., Hubbard, N.A., Himes, L.M., Faghihahmadabadi, S., Hutchison, J.L., **Bennett, I.J.**, Motes, M.A., Haley, R.W., Rypma, B. (2016). Cognitive slowing in Gulf War Illness predicts executive network hyperconnectivity: Study in a population-representative sample. *NeuroImage: Clinical*, 12, 535-541.
26. **Bennett, I.J.**, Stark, C.E.L. (2016). Mnemonic discrimination relates to perforant path integrity: An ultra-high resolution diffusion tensor imaging study. *Neurobiology of Learning and Memory*, 129, 107-112.
27. Houston, J.R., **Bennett, I.J.**, Allen, P.A., Madden, D.J. (2016). Visual acuity does not moderate effect sizes of higher-level cognitive tasks. *Experimental Aging Research*, 42 (3), 221-263.
28. **Bennett, I.J.**, Huffman, D.J., Stark, C.E.L. (2015). Limbic tract integrity contributes to episodic memory performance across the lifespan. *Cerebral Cortex*, 25 (9), 2988-2999.
29. **Bennett, I.J.**, Madden, D.J. (2014). Disconnected aging: Cerebral white matter integrity and age-related differences in cognition. *Neuroscience*, 12 (276), 187-205.
30. Hubbard, N.A., Hutchison, J.L., Motes. M.A., Shokri-Kojori, E., **Bennett, I.J.**, Brigante, R.M., Haley, R.W., Rypma, B. (2014). Central executive dysfunction and deferred prefrontal processing in veterans with Gulf War Illness. *Clinical Psychological Sciences*, 2 (3), 319-327.
31. **Bennett, I.J.**, Rypma, B. (2013). Advances in functional neuroanatomy: A review of combined DTI and fMRI studies in healthy younger and older adults. *Neuroscience & Biobehavioral Reviews*, 37 (7), 1201-1210.
32. **Bennett, I.J.**, Rivera, H.G.**, Rypma, B. (2013). Isolating age group differences in working memory load-related neural activity: Assessing the contribution of working memory capacity using a partial-trial fMRI method. *Neuroimage*, 72, 20-32.
33. **Bennett, I.J.**, Motes, M.A., Rao, N.K., Rypma, B. (2012). White matter integrity predicts visual search performance in young and older adults. *Neurobiology of Aging*, 33 (2), 433.e21-433.e31.
34. Madden, D.J., **Bennett, I.J.**, Burzynska, A., Potter, G., Song, A.W. (2012). Diffusion tensor imaging of cerebral white matter integrity in cognitive aging. *BBA – Molecular Basis of Disease*, 1822 (3), 386-400.
35. **Bennett, I.J.**, Madden, D.J., Vaidya, C.J., Howard, J.H., Jr., Howard, D.V. (2011). White matter integrity correlates of implicit sequence learning in healthy aging. *Neurobiology of Aging*, 32 (12), 2317.e1-2317.e12.
36. **Bennett, I.J.**, Madden, D.J., Vaidya, C.J., Howard, D.V., Howard, J.H., Jr. (2010). Age-related differences in multiple measures of white matter integrity: A diffusion tensor imaging study of healthy aging. *Human Brain Mapping*, 31 (3), 378-390.
37. Madden, D.J., **Bennett, I.J.**, Song, A.W. (2009). Cerebral white matter integrity and cognitive aging: Contributions from diffusion tensor imaging. *Neuropsychology*

Review, 19 (4), 415-435.

38. **Bennett, I.J.**, Barnes, K.A., Howard, J.H., Jr., Howard, D.V. (2009). An abbreviated implicit spatial context learning task that yields greater learning. *Behavior Research Methods*, 41 (2), 391-395.
39. **Bennett, I.J.**, Romano, J.C., Howard, J.H., Jr., Howard, D.V. (2008). Two forms of implicit learning in young adult dyslexics. *Annals of the New York Academy of Sciences*, 1145, 184-198.
40. **Bennett, I.J.**, Howard, J.H., Jr., Howard, D.V. (2007). Age-related differences in implicit learning of subtle third-order sequential structure. *Journal of Gerontology. Series B, Psychological Sciences and Social Sciences*, 62 (2), 98-103.
41. **Bennett, I.J.**, Golob E.J., Parker, E.S., Starr A. (2006). Memory evaluation in mild cognitive impairment using recall and recognition tests. *Journal of Clinical and Experimental Neuropsychology*, 28, 1408-1422.
42. **Bennett, I.J.**, Golob E.J., Starr A. (2004). Age-related differences in auditory event-related potentials during a cued attention task. *Clinical Neurophysiology*, 115, 2602-2615.

Published Conference Proceedings (5 total)

1. Langley, J., Sumanth, D., **Bennett, I.J.**, Hu, X. (2022). Striatal tau deposition in mild cognitive impairment revealed by removal of iron-related off-target binding effects in 18F-AV1451 PET. *International Society for Magnetic Resonance in Medicine*. London, England.
2. Langley, J., Hussain, S., Huddleston, D.E., **Bennett, I.J.**, Hu, X. (2021) Tau correlates with tissue susceptibility and microstructure in APOE-e4+ mild cognitive impairment. *International Society for Magnetic Resonance in Medicine* oral presentation and published proceeding. Virtual event.
3. Hussain, S., Shalchy, M.A., Yaghoubi, K.C., Langley, L., Chen, X., **Bennett, I.J.**, Huang, R., Clewett, D., Nielsen, S.E., Velasco, R., Kennedy, B., Han, S., Tu, K., Seitz, A.R., Zhang, N., Mather, M., Hu, X., Peters, M.A.K. (2019). Locus coeruleus engagement drives network connectivity dynamics in humans and rats. *Conference on Cognitive Computation*. Berlin, Germany.
4. Yaghoubi, K.C., Shalchy, M.A., Hussain, S., Chen, X., **Bennett, I.J.**, Mather, M., Hu, X., Seitz, A.R., Peters, M.A.K. (2019). Computational fMRI reveals separable representations of stimulus and behavioral choice in auditory cortex: A tool for studying the locus coeruleus circuit. *Conference on Cognitive Computation*. Berlin, Germany.
5. Langley, J., Flores, J.J.*, Hussain, S., **Bennett, I.J.**, Hu, X. (2019). Characterizing age-related microstructural changes in locus coeruleus and substantia nigra. *International Society for Magnetic Resonance in Medicine.* Montreal, Canada.

Book Chapters (2 total)

1. Merenstein, J.L.**, **Bennett, I.J.** (2023). Neuroimaging studies of mental disorders. In Markey, C. & Friedman, H.S. (Eds.), *Encyclopedia of Mental Health, 3rd Edition*.

Elsevier.

2. Motes, M.A., Shokri-Kojori, E., Rao, N.K., **Bennett, I.J.**, Rypma, B. (2011). Using fMRI to examine the brain-bases of working memory. In E.S. Levine (Ed.), *Working memory: Capacity, developments and improvement techniques* (pp. 267-286). Hauppauge, NY: Nova Pub.

ABSTRACTS

*Note. Mentored ***postdoctoral, **graduate, and *undergraduate student authors*

Oral Presentations (11 total)

1. **Bennett, I.J.** (2025). Mnemonic discrimination: A key marker of neurocognitive aging. *Western Psychological Association Conference Keynote Address*. Las Vegas, NV.
2. Hu, X., Langley, J., **Bennett, I.J.**, Seitz, A. (2024). MR Imaging of LC integrity and its application in studying aging. *Locus Coeruleus Meeting*. Innsbruck, Austria.
3. **Bennett, I.J.**, Langley, J., Hu, X. (2023). Aging of the locus coeruleus and its contribution to memory. *Australasian Cognitive Neuroscience Society*. Sydney, Australia.
4. Alcaraz-Torres, A.*, Asatryan, C.*, Sun, A.*, Merenstein, J.L.**, Petok, J.R., **Bennett, I.J.** (2023). Iron concentration obscures age group differences in associative learning-related neural activity. *Dallas Aging and Cognition Conference*. Dallas, TX.
5. Klippenstein, J.L.**, **Bennett, I.J.** (2020). Neurocognitive mediators of episodic memory performance across the older adult lifespan. *Western Psychological Association Conference*. San Francisco, CA. (delayed and virtual due to COVID-19)
6. Klippenstein, J.L.**, Venkatesh, A.**, Alcaraz-Torres, A.*, **Bennett, I.J.** (2019). Hippocampal tract integrity relates to hippocampal memory-related activity: A combined DTI-fMRI study. *Society for Neuroscience*. Chicago, IL.
7. Venkatesh, A.**, Huffman, N.*, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2017). Hippocampal gray matter integrity declines in healthy aging and relates to mnemonic discrimination. *Society for Neuroscience*. Washington, DC.
8. DeCarli, C., **Bennett, I.J.**, Fletcher, E., Greenia, D.E., Corrada, M.M., Kawas, C.H. (2016). Amyloid burden does not differentiate cognitive status amongst the oldest old: The 90+ Study. *Alzheimer's Association International Conference Platform Presentation*. Toronto, Canada.
9. Shokri-Kojori, E.**, **Bennett, I.J.**, Krawczyk, D., Rypma, B. (2014). Microstructural estimates of grey matter and white matter age differentially predict lifespan variability in fluid and crystallized intelligence. *Society for Neuroscience*. Washington, DC.
10. **Bennett, I.J.**, Rypma, B. (2012). The contribution of white matter integrity and neural activity to cognition in healthy aging. *Society for Neuroscience*. New Orleans, LA.

11. **Bennett, I.J.**, Howard, J.H., Jr., Howard, D.V. (2007). Reading ability and implicit learning in healthy older adults. *Cognitive Aging Conference*. Adelaide, South Australia.

Poster Presentations: Regional, national, international (77 total)

1. Kim, S.**, Chaloupka, B., Gonzales, H., **Bennett, I.J.**, Zeithamova, D., Dimsdale-Zucker, D.R. (2025). Can memory precision explain how spatial and object overlap affects new learning across ages? *Society for Neuroscience*. San Diego, CA.
2. Bruellman, R.**, Corley, R.P., Wadsworth, S.J., **Bennett, I.J.**, Reynolds, C.A. (2025). Food for thought: Grocery store quality matters in accessing healthy food options for better health outcomes. *Behavioral Genetics Association Conference*. Atlanta, GA.
3. Langley, J., Solis, K.*, Masjedizadeh, V., **Bennett, I.J.**, Hu, X. (2025). Associations between iron and mean kurtosis in iron-rich grey matter nuclei in aging. *International Society for Magnetic Resonance in Medicine*. Honolulu, HI.
4. Ghaffari, A.**, Masjedizadeh, V., Chen, X., Langley, J., **Bennett, I.J.**, Hu, X. (2025). Linking brain functional connectivity of older adults to maximum voluntary contraction: Towards a neural marker of motor strength. *International Society for Magnetic Resonance in Medicine*. Honolulu, HI.
5. Shao, M., Solis, K.*, **Bennett, I.J.**, Langley, J., Hu, X. (2025). R_2 mapping as a marker for corticospinal tract integrity in aging. *International Society for Magnetic Resonance in Medicine*. Honolulu, HI.
6. Ghaffari, A.**, Langley, J., **Bennett, I.J.**, Hu, X. (2025). Functional MRI connectome fingerprinting in older adults. *IEEE International Symposium on Biomedical Imaging*. Houston, TX
7. **Bennett, I.J.**, Langley, J., Barrios, R.*, Ng, K.*, Zubair, J.*, Kuncharapu, S.*, Hu, X.P. (2025). Higher diffusion coefficients in glial-specific metabolites may indicate age-related hippocampal neuroinflammation: A preliminary diffusion-weighted MRS study. *Dallas Aging and Cognition Conference*. Dallas, TX.
8. Solis, K.*, Page, A.**, Seitz, A., Hu, X., Langley, J., **Bennett, I.J.** (2025). Handgrip strength relates to corticospinal tract microstructure in older adults. *Dallas Aging and Cognition Conference*. Dallas, TX.
9. Kim, S., Chaloupka, B., Gonzales, H., **Bennett, I.J.**, Zeithamova, D., Dimsdale-Zucker, H.R. (2025). Differential effects of object and spatial information overlap on new learning in younger and older adults. *Dallas Aging and Cognition Conference*. Dallas, TX.
10. Bruellman, R.**, Pahlen, S., Ellingson, J.M., Corley, R.P., Wadsworth, S.J., **Bennett, I.J.**, Reynolds, C.A. (2025). Health benefits of engaging in more vigorous than moderate intensity exercise. *Society of Behavioral Medicine Annual Meeting*. San Francisco, CA.
11. Sanchez, D.**, Sabbah, M.*, **Bennett, I.J.** (2024). Age-related declines in cerebral blood flow are moderated by sex, but not APOE ε4, in mild cognitive impairment.

Alzheimer's Association International Conference. New York, NY.

12. Zavradyan, G.**, Kang, S.*, Padmanaban, S.*, Kuncharapu, S.*, **Bennett, I.J.** (2024). Microglial activation captured by diffusion-weighted MRI and sTREM2 in Alzheimer's Disease. *Alzheimer's Association International Conference*. New York, NY.
13. Dastgheib, M.**, **Bennett, I.J.**, Seitz, A. (2024). The differential effect of physical effort within perceptual and visual memory domains: Insights from psychometric function analysis. *Psychonomics Society*. New York, NY.
14. Page, A.**, Prabhakar, S.*, Zubair, J.*, **Bennett, I.J.** (2024). Effects of age, sex, and associative load on memory and its relation to white matter microstructure. *Cognitive Neuroscience Society*. Toronto, Canada.
15. Greenman, D.**, **Bennett, I.J.** (2024). Maintenance of gray matter diffusion in older adults relates to better episodic memory. *Cognitive Neuroscience Society*. Toronto, Canada.
16. Solis, K., Langley, J., Sun, A.**, Seitz, A., Hu, X., **Bennett, I.J.** (2024). Locus coeruleus impact on memory variability in older adults. *Cognitive Neuroscience Society*. Toronto, Canada.
17. Alcaraz-Torres, A.*, Sun, A.*, **Bennett, I.J.** (2023). Effect of associative load on recognition memory and its neural substrates. *International Conference on Learning and Memory*. Huntington Beach, CA.
18. Dastgheib, M.**, Yaghoubi, K., Kobaissi, H., Alba, J., **Bennett, I.J.**, Seitz, A. (2023). The effect of handgrip-induced stress on perceptual and visual memory. *International Conference on Learning and Memory*. Huntington Beach, CA.
19. Page, A.**, Alcaraz-Torres, A.*, Sun, A., **Bennett, I.J.** (2023). Striatal, not just hippocampal, volume relates to associative memory in younger and older adults. *Dallas Aging and Cognition Conference*. Dallas, TX.
20. Greenman, D.**, **Bennett, I.J.** (2023). Age effects across NODDI metrics suggest differential aging of subcortical gray matter microstructure. *Dallas Aging and Cognition Conference*. Dallas, TX.
21. Sanchez, D.**, **Bennett, I.J.** (2023). Hippocampal blood flow differs with preclinical Alzheimer's disease stage in females but not males. *Dallas Aging and Cognition Conference*. Dallas, TX.
22. Zavradyan, G.**, **Bennett, I.J.** (2023). Fluid biomarkers of neuroinflammation relate to hippocampal volume in mild cognitive impairment. *Dallas Aging and Cognition Conference*. Dallas, TX.
23. Glenn, D., Merenstein, J.L.**, **Bennett, I.J.**, Michalska, K. (2022). Dana Higher uncinate fasciculus microstructure predicts social anxiety symptoms in Latina girls. *Society of Biological Psychiatry*. New Orleans, LA.
24. Merenstein, J.L.**, Corrada, M.M., Kawas, C.H., Bennett, I.J. (2022). White matter microstructural correlates of associative learning in the oldest-old. *Dallas Aging and Cognition Conference*. Dallas, TX. (cancelled due to COVID-19)

25. Noh, S., **Bennett, I.J.**, Bornstein, A. (2021). Age-related differences in memory-guided decisions are driven by a trade-off between multiple decision systems. *Society for Neuroscience*. Virtual event.
26. Alcaraz-Torres, A.*, **Bennett, I.J.** (2021). Effects of virtual testing format on associative memory performance. *Western Psychological Society*. Virtual event.
27. Merenstein, J.L.**, **Bennett, I.J.** (2021). White matter tract integrity mediates relationships between learning-related activity in younger and older adults. *Society for Neuroscience Global Connectome*. Virtual event.
28. Langley, J., Hussain, S., Huddleston, D.E., **Bennett, I.J.**, Hu, X. (2021). Tau-mediated microstructural changes in the central tegmental tract in APOE-e4 positive mild cognitive impairment. *International Society for Magnetic Resonance in Medicine*. Virtual event.
29. Langley, J., Hussain, S., Flores, J.J.*, Huddleston, D.E., **Bennett, I.J.**, Hu, X. (2020). Locus coeruleus and its projections impact on age-related cognitive decline. *International Society for Magnetic Resonance in Medicine.* Sydney, Australia. (virtual due to COVID-19)
30. Venkatesh, A.**, Franco, C.*, Langley, L., Hu, X., **Bennett, I.J.** (2020). Hippocampal iron relates to integrity and predicts episodic memory. *Cognitive Aging Conference*. Atlanta, GA. (cancelled due to COVID-19)
31. Klippenstein, J.L.**, Alcaraz-Torres, A.*, Petok, J.R., **Bennett, I.J.** (2020). Age moderates the coordination between hippocampal and caudate fMRI activity during implicit associative learning. *Cognitive Aging Conference*. Atlanta, GA. (cancelled due to COVID-19)
32. Franco, C.*, Flores, J.J.*, **Bennett, I.J.** (2020). A novel task to parametrically manipulate episodic memory load. *Cognitive Neuroscience Society*. Boston, MA. (virtual due to COVID-19)
33. Ibrahim, K.*, **Bennett, I.J.** (2020). The effect of hippocampal integrity and volume on recall memory in healthy aging. *Cognitive Neuroscience Society*. Boston, MA. (virtual due to COVID-19)
34. Yaghoubi, K.C., Shalchy, M.A., Chen, X., Langley, L., **Bennett, I.J.**, Hu, X.P., Seitz, A.R., Peters, M.A.K. (2019). Multi voxel pattern analysis of auditory oddball as a tool for investigating locus coeruleus modulation of perceptual circuits. *Society for Neuroscience*. Chicago, IL.
35. Shalchy, M.A., Yaghoubi, K.C., Chen, X., Langley, L., **Bennett, I.J.**, Hu, X.P., Peters, M.A.K., Seitz, A.R. (2019). Estimating behavioral and neural stimulus-response functions in auditory processing. *Society for Neuroscience*. Chicago, IL.
36. Flores, J.J.*, Petok, J.R., **Bennett, I.J.** (2019). Ethnic and age differences in general cognition. *Western Psychological Society*. Pasadena, CA.
37. Mendoza, M.M.*, Klippenstein, J.L.**, Petok, J.R., **Bennett, I.J.** (2019). Implicit associative learning: Hippocampus and striatal involvement over time. *Cognitive Neuroscience Society*. San Francisco, CA.

38. Franco, C.*, Petok, J.R., **Bennett, I.J.** (2019). Relationships between striatal gray matter integrity and implicit associative learning. *Cognitive Neuroscience Society*. San Francisco, CA.
39. Venkatesh, A.**, Langley, J., Hu, X., **Bennett, I.J.** (2019). Ultrahigh resolution diffusion imaging of fornix integrity and episodic memory in aging. *Dallas Aging and Cognition Conference*. Dallas, TX.
40. Klippenstein, J.L.**, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2019). Whole-brain substrates of mnemonic discrimination vary with memory status in older adults. *Dallas Aging and Cognition Conference*. Dallas, TX.
41. Rupp, M.A.***, Greenia, D.E., Corrada, M.M., Kawas, C.H., **Bennett, I.J.** (2019). The effect of nonagenarians on age-related white matter integrity declines. *Dallas Aging and Cognition Conference*. Dallas, TX.
42. Venkatesh, A.**, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2018). Hippocampal and striatal gray matter integrity differentially relate to age and mnemonic discrimination. *Cognitive Aging Conference*. Atlanta, GA.
43. Klippenstein, J.**, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2018). Age group differences in whole-brain substrates of mnemonic discrimination. *Cognitive Aging Conference*. Atlanta, GA.
44. Rupp, M.A.***, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2018). Engagement of an episodic encoding network predicts mnemonic discrimination performance in younger but not older adults. *Cognitive Aging Conference*. Atlanta, GA.
45. Rupp, M.A.***, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2018). Subsequent recollection network activity is associated with successful subsequent mnemonic discrimination. *International Conference on Learning and Memory*. Huntington Beach, CA.
46. Klippenstein, J.**, Stark, S.M., Stark, C.E.L., **Bennett, I.J.** (2017). Neural substrates of mnemonic discrimination: A whole-brain fMRI investigation. *Society for Neuroscience*. Washington, DC.
47. **Bennett, I.J.**, Stark, S.M., Greenia, D.E., Corrada, M.M., Kawas, C.H., Stark, C.E.L. (2016). Mnemonic discrimination relates to hippocampal tract integrity in the oldest-old. *Cognitive Aging Conference*. Atlanta, GA.
48. **Bennett, I.J.**, Greenia, D.E., Stark, S.M., Maillard, P., Corrada, M.M., Stark, C.E.L., DeCarli, C., Kawas, C.H. (2016). Age-related white matter integrity differences in the oldest-old. *Cognitive Aging Conference*. Atlanta, GA.
49. **Bennett, I.J.**, Stark, C.E.L. (2015). Contributions of hippocampal and striatal tract integrity to mnemonic discrimination across the lifespan. *Society for Neuroscience*. Chicago, IL.
50. **Bennett, I.J.**, Stark, C.E.L. (2015). Mnemonic discrimination relates to perforant path integrity: A high resolution DTI study. *Organization for Human Brain Mapping*. Honolulu, HI.
51. **Bennett, I.J.**, Stark, S.M., Stark, C.E.L. (2014). Dissociating behavioral pattern

separation declines in healthy aging and mild cognitive impairment. *Cognitive Aging Conference*. Atlanta, GA.

52. **Bennett, I.J.**, Huffman, D.J., Stark, C.E.L. (2013). Integrity of limbic tracts contributes to episodic memory performance across the lifespan. *Society for Neuroscience*. San Diego, CA.
53. Shokri-Kojori, E.**, Tomeldan, Z.A.*, Kriegsman, M., **Bennett, I.J.**, Motes, M.A., Rypma, B., Krawczyk, D. (2012). Towards a functional diffusion tensor imaging atlas of the human brain. *Society for Neuroscience*. New Orleans, LA.
54. **Bennett, I.J.**, Tomeldan, Z.A.*, Cocjin, S.A.*, Rypma, B. (2012). Combined DTI-fMRI study of structure-function relationships between adjacent brain regions in aging. *Cognitive Aging Conference*. Atlanta, GA.
55. **Bennett, I.J.**, Rivera, H.G.**, Rypma, B. (2012). Working memory load-related activity varies in aging: A test of competing neurocognitive aging theories. *Cognitive Neuroscience Society*. Chicago, IL.
56. **Bennett, I.J.**, Rypma, B. (2011). Structure-function relationships in healthy aging and mild cognitive impairment: A combined DTI-fMRI study. *Society for Neuroscience*. Washington, DC.
57. **Bennett, I.J.**, Karnik-Henry, M., Colby, M.A.E., Rypma, B. (2011). Neural correlates of processing speed: A combined DTI-fMRI study in healthy aging. *Cognitive Neuroscience Society*. San Francisco, CA.
58. Shokri-Kojori, E., **Bennett, I.J.**, Motes, M.A., Krawczyk, D., Rypma, B. (2011). Functional and anatomical connectivity predicting performance in a digit symbol substitution task. *Cognitive Neuroscience Society*. San Francisco, CA.
59. Colby, M.A.E., **Bennett, I.J.**, Pham, L., Karnik-Henry, M., Sandoval, T.I., Rypma, B. (2011). Working memory and processing speed in healthy aging: An fMRI analysis. *Dallas Aging and Cognition Conference*. Dallas, TX.
60. **Bennett, I.J.**, Rivera, H.G.**, Colby, M.A.E., Karnik-Henry, M., Rypma, B. (2010). Processing speed accounts for age group differences in working memory-related performance and neural activity. *Society for Neuroscience*. San Diego, CA.
61. Rivera, H.G.**, **Bennett, I.J.**, Colby, M.A.E., Karnik-Henry, M., Rypma, B. (2010). Relationships between working memory performance and maintenance phase activity: An aging study. *Society for Neuroscience*. San Diego, CA.
62. Colby, M.A.E., **Bennett, I.J.**, Karnik-Henry, M., Tisdale, E.K., Jordan, L.A., Motes, M.A., Sandoval, T.I., Rypma, B. (2010). Neural mediation of working memory by processing speed in older adults. *Society for Psychophysiological Research*. Portland, OR.
63. **Bennett, I.J.**, Karnik-Henry, M., Colby, M.A.E., Rypma, B. (2010). Processing speed mediates working memory, but not visual search: A behavioral and functional imaging study of older adults. *Cognitive Aging Conference*. Atlanta, GA.
64. Thomas, K.M.*, **Bennett, I.J.**, Madden, D.J., Vaidya, C.J., Howard, J.H., Jr., Howard, D.V. (2010). Relationships between white matter integrity and two forms of

recall in healthy aging. *Cognitive Neuroscience Society*. Montreal, Canada.

65. Hillis, G.A.J., Sandoval, T.I., Motes, M.A., **Bennett, I.J.**, Maciejewski, M.J., Hutchison, J.L., Rypma, B. (2010). Pre-frontal cortex dysfunction in Gulf War Illness. *Cognitive Neuroscience Society*. Montreal, Canada.
66. **Bennett, I.J.**, Madden, D.J., Vaidya, C.J., Howard, J.H., Jr., Howard, D.V. (2010). White matter integrity correlates of implicit sequence learning in healthy aging. *Cognitive Neuroscience Society*. Montreal, Canada.
67. **Bennett, I.J.**, Motes, M.A., Rao, N.K., Rypma, B. (2010). Accounting for age group differences in white matter integrity. *Dallas Aging and Cognition Conference*. Dallas, TX.
68. **Bennett, I.J.**, Simon, J.R., Madden, D.J., Vaidya, C.J., Howard, J.H., Jr., Howard, D.V. (2009). A combined DTI and fMRI analysis of the neural correlates of implicit probabilistic sequence learning. *Cognitive Neuroscience Society*. San Francisco, CA.
69. **Bennett, I.J.**, Joseph, D.A.**, Madden, D.J., Vaidya, C.J., Howard, J.H., Jr., Howard, D.V. (2008). The effect of healthy aging on multiple measures of white matter integrity. *Society for Neuroscience*. Washington, DC.
70. **Bennett, I.J.**, Vaidya, C.J., Madden, D.J., Howard, D.V., Howard, J.H., Jr. (2008). White matter integrity and implicit sequence learning in younger and older adults. *Cognitive Neuroscience Society*. San Francisco, CA.
71. **Bennett, I.J.**, Lee, P.S., Barnes, K.A., Vaidya, C.J., Madden, D.J., Howard, J.H., Jr., Howard, D.V. (2007). The role of white matter integrity in two forms of implicit learning. *Society for Neuroscience*. San Diego, CA.
72. Shapiro, M.D.*, **Bennett, I.J.**, Barnes, K.A., Howard, J.H., Jr., Howard, D.V. (2007). Memory load affects the magnitude of implicit spatial context learning. *Association for Psychological Sciences*. Washington, DC.
73. **Bennett, I.J.**, Romano, J.C., Howard, J.H., Jr., Howard, D.V. (2006). Two forms of implicit learning in young adult dyslexics. *25th Rodin Remediation Academy Conference*. Washington, DC.
74. Badaly, D.*, **Bennett, I.J.**, Howard, J.H., Jr., Howard, D.V. (2006). Statistical learning from visual sequences in younger and older adults. *Association for Psychological Sciences*. New York, NY.
75. **Bennett, I.J.**, Wolfe, A.L.*, Howard, J.H., Jr., Howard, D.V. (2006). Older adults reveal implicit learning of subtle third-order sequential structure. *Cognitive Aging Conference*. Atlanta, GA.
76. **Bennett I.J.**, Golob E.J., Starr A. (2003). Age-related differences in auditory event-related potentials during a cued attention task. *Society for Neuroscience*. New Orleans, LA.
77. Rodriguez A., Hoffman D.D., Hara J., Bennett B.M., Shankle W. J., **Bennett I.J.** (2001). EEG signatures for rigid motion perception. *8th Joint Symposium on Neural Computation*. San Diego, CA.

Poster Presentations: Intramural (15 total)

1. McCollum, M.*, Page, A.**, **Bennett, I.J.** (2024). Creating a short-term associative memory version of our associative memory task. *R'PSYC Undergraduate Research Conference*. Riverside, CA.
2. McCollum, M.*, Page, A.**, **Bennett, I.J.** (2024). Creating a functional QuadMax working memory task. *Undergraduate Research Symposium oral presentation*. Riverside, CA.
3. Zavradyan, G., **Bennett, I.J.** (2024). Fluid biomarkers of neuroinflammation relate to hippocampal volume in Mild Cognitive Impairment and Alzheimer's Disease. *Center for Glial and Neuronal Interactions Symposium*. Riverside, CA.
4. Agarwal, S.*, **Bennett, I.J.** (2022). Relationships between hippocampal myelin and memory performance in older adults. *Undergraduate Research Symposium oral presentation*. Riverside, CA.
5. Ramirez, M.*, Merenstein, J.L.**, **Bennett, I.J.** (2022). Basal ganglia network contributions to associative and skill learning. *Undergraduate Research Symposium oral presentation*. Riverside, CA.
6. Merenstein, J.L.**, **Bennett, I.J.** (2021). Neural substrates of task, but not learning, stage vary in aging. *Center for the Neurobiology of Learning and Memory Spring Conference*. Virtual event.
7. Ibrahim, K.*, Venkatesh, A.**, **Bennett, I.J.** (2020). The effect of hippocampal integrity and volume on recall memory in healthy aging. *Undergraduate Research Symposium oral presentation*. Riverside, CA.
8. Flores, J.J.*, **Bennett, I.J.**, Wu, R., Firat, R. (2019). Ethnic and age differences in psychological wellbeing. *UCLA Research Conference on Aging*. Los Angeles, CA.
9. Hanachi, M.*, Pineda, J.K.*, Venkatesh, A.**, **Bennett, I.J.** (2019). White matter integrity explains age effects on gray matter integrity. *R'PSYC Undergraduate Research Conference oral presentation*. Riverside, CA.
10. Franco, C.*, **Bennett, I.J.** (2019). Relationships Between Striatal Gray Matter Integrity and Implicit Associative Learning. *Undergraduate Research Symposium oral presentation.* Riverside, CA.
11. Madero, B.*, Ibrahim, K.*, Rupp, M.A.***, **Bennett, I.J.** (2019). Hippocampal but not caudate volume predicts implicit associative learning in aging. *R'PSYC Undergraduate Research Conference*. Riverside, CA.
12. Pineda, J.K.*, Hanachi, M.*, Venkatesh, A.**, **Bennett, I.J.** (2019). Gray matter integrity is a better predictor of episodic memory performance than white matter in the episodic memory network. *R'PSYC Undergraduate Research Conference*. Riverside, CA.
13. Nguyen, G., Zhang, J., Leanos, S., Ditta, A., **Bennett, I.J.**, Barrett, L.F., Wu, R. (2019). Neural correlates of learning multiple skills in older adulthood. *UCR Undergraduate Research Symposium.* Riverside, CA.
14. Colby, M.A.E., **Bennett, I.J.**, Karnik-Henry, M., Sandoval, T.I., & Rypma, B. (2010).

Neural mechanisms of working memory and processing speed in healthy aging. *Human Brain Imaging Retreat*, Dallas, TX.

15. **Bennett, I.J.**, Motes, M.A., Rao, N.K., Rypma, B. (2010). Brain structure predicts behavioral performance: A diffusion tensor imaging study of visual search in healthy aging. *Center for Vital Longevity Grand Opening*. Dallas, TX.

INVITED TALKS

Academic

09/25 Aging of the locus coeruleus: Implications for memory. *Center for Vital Longevity*. Dallas, TX.
03/25 Mnemonic discrimination in the aging brain. *UCLA Integrative Center for Learning and Memory Symposium*. Los Angeles, CA.
06/23 Neurocognitive aging: Insights from structural MRI. *Neuroimaging in Health and Disease seminar at Washington University in St. Louis*. Virtual event.
04/22 Associative learning and memory in aging. *Cognition, Perception, and Cognitive Neuroscience seminar at University of California, Santa Barbara*. Virtual event.
04/21 Hippocampal and basal ganglia contributions to associative learning. *Pennsylvania University Neuroscience Seminar*. Virtual event.
05/19 Hippocampal and striatal contributions to associative learning. *Southern California Learning and Memory Symposium at UCLA*. Los Angeles, CA.
04/18 Diffusion imaging of the aging brain: How integrity relates to episodic memory dysfunction. *University of Southern California Behavioral Neurology and Neuropsychiatry conference*. Los Angeles, CA.
04/18 Diffusion imaging of the aging brain: How integrity relates to episodic memory dysfunction. *Claremont Colleges Neuroscience Speaker Series*. Claremont, CA.

Community

05/24 Advanced aging research at UCR. *UCR Retirees' and Emeriti Associations Spring Luncheon*. Riverside, CA
09/22 Memory and our aging brain. *Magnolia Grand*. Riverside, CA
03/22 Memory and the aging brain. *Exploring our Aging Brain series*. Virtual event.
03/22 Our amazing brain. *Beacon Park Elementary School*. Virtual event.
11/18 Panel member. *Alzheimer's Association Ask the Doc event*. Riverside, CA
03/18 Memory and the aging brain. *American Society for Neurochemistry Conference High School Day*. Riverside, CA.
05/17 Hippocampal tract integrity mediates mnemonic discrimination. *Southern California Learning and Memory Symposium*. Riverside, CA.
11/16 Memory in normal aging and dementia. *Riverside Office on Aging Annual Caregiver Conference keynote address*. Riverside, CA.

TEACHING EXPERIENCE

Graduate Instructor

PSYC 271 Seminar in Cognition: Modifiers of Cognitive and Brain Health (2024 S)
PSYC 283 Proseminar on Current Research in Cognitive Psychology (2019-2023)
PSYC 271 Seminar in Cognition: Episodic Memory: A Cognitive Neuroscience and Aging Perspective (2019 S)

Georgetown Lifespan Development: Brain and Cognition (aging section; 2009 S)

Undergraduate Instructor

PSYC 122 Human Neuroimaging (2018 S, 2020 W, 2022 S, 2025 W)
PSYC 122L Human Neuroimaging Lab (2018 S, 2020 W, 2022 S, 2025 W)
PSYC 134 Cognitive Processes (2019 W, 2021 S, 2022 F, 2025 F)
PSYC 011 Psychological Methods: Statistical Procedures (2016 F, 2018 F, 2021 W, 2023 S, 2024 F)
UC Irvine Human Neurodegenerative Diseases (2015 F)
Georgetown Aging Mind and Brain seminar (2007 F)

Guest Lecturer

2010 S "Attention and language" in Cognitive Neuroscience course
2008 S "Physical and cognitive development in late adulthood" in Lifespan Development course

Teaching Fellow

2007 S Childhood and Adolescence
2006 F Abnormal Psychology
2006 S Clinical Neuropsychology
2005 F General Psychology
2004 F - 2005 S Research Methods and Statistics

Formal Training

2021 F Transforming Teaching Faculty Learning Program
2016 F First year faculty teaching excellence workshop series
2007 S Tutorial: course design, teaching methods
2006 F - 2007 S Workshops: effective classroom interaction, syllabus design

MENTORING EXPERIENCE

Note. Psychology otherwise: [NRSC]Neuroscience; [GGB]Genetics, Genomics and Bioinformatics; [BCOE]Bourns College of Engineering; [BIOM]Biomedical Sciences

Postdoctoral Mentor

2023 Su - 2024 Su Mao Chao (currently Assistant Professor, National Chung Cheng University, Taiwan)
2017 Su - 2019 S Michael Rupp (Human Factors Researcher at Hewlett Packard)

PhD Mentor

2025 F - present Emerald Wang
2025 S - present Bethany Tavenner (co-mentor)
2023 F - present Ryan Bruellman[GGB] (co-mentor)
2022 F - present Abbey Page
2022 F - present Danielle Greenman
2022 S - present Gohar Zavadryan[NRSC]
2021 Su - present Mohammad Dastgheib (co-mentor)
2021 Su - present Danielle Sanchez
2017 Su - 2022 W Jenna Klippenstein (NRSA F31; Postdoctoral Fellow, Duke University; 2025 Assistant Professor, University of Utah)

2017 S - 2021 Su	Anu Venkatesh[NRSC] (SMART Fellowship; currently Researcher, Department of Defense, Naval Information Warfare Center Pacific)

Neuroscience PhD Rotation Mentor

2024 S	Daniel Peixoto[NRSC]
2022 S	Gohar Zavadryan[NRSC]
2020 S	Alexander Bilas[NRSC], Noorhan Rahmatullah[NRSC]
2019 F	Kamryn Mattingly[NRSC]
2018 W	Jordan Donohue[NRSC]

Other Graduate Mentorship

2017 Su	Stephanie Dreikorn
2013 Su	Avital Fischer
2010 S - 2011 F	Hannah Rivera
2008 S	Dawn Joseph

Graduate Committee Member: Dissertation defense

present	Amin Ghaffari[BCOE], Ellie Hodge[NRSC]
2025	Kamryn Mattingly[NRSC]
2024	Austin Moon[NRSC]
2023	Lilian Azer, Rebecca Tuckerman (ABD)
2022	Jenna Merenstein (chair)
2021	Anu Venkatesh[NRSC] (chair)
2020	Alessandra Macbeth

Graduate Committee Member: Qualifying exam

present	Danielle Sanchez (chair)
2025	Mohammad Dastgheib (chair), Abbey Page (chair), Danielle Greenman (chair), Hailey Rousey, Daniel Peixoto[NRSC], Hossein Rahimzadeh[BCOE]
2024	Marybeth McCook, Hunter Sturgill, Tyler Jang[GGB] (chair), Anjum Hussain[NRSC], Sakina Hussain[BIOM]
2023	Austin Moon[NRSC] (chair), Mack Ma, Ryan Bruellman[GGB], Ellie Hodge[NRSC], Amin Ghaffari[BCOE]
2022	Kamryn Mattingly[NRSC] (chair)
2021	Deja Simon, Jacob Elder
2020	Rebecca Tuckerman, Lilian Azer, Kimia Yaghoubi
2019	Trevor Basil, Mahsa Shalchy, Shandell Pahlen, Sana Hussain[BCOE], Jenna Klippenstein (chair)
2018	Anu Venkatesh (chair)
2017	Alessandra Macbeth

Graduate Committee Member: Master's thesis

present	Jennifer Moseley, Seongyun Kim
2025	Inik Kim, Isadora Farias Lopes de Queiroz
2024	Hailey Rousey, Abbey Page (chair), Danielle Greenman (chair)
2023	Leah Ferguson, Marybeth McCook, Danielle Sanchez (chair), Mohammad Dastgheib
2021	Samyukta Jayakumar, Li Yang

2019	Jenna Klippenstein (chair), Lilian Azer, Shirley Leanos
2018	Mahsa Shalchy
2017	Negin Sattari, Rebecca Tuckerman

Graduate Committee Member: Advisory committee

2024 - present	Daniel Peixoto[NRSC], Seongyun Kim
2023 - present	Jennifer Moseley, Hailey Rousey
2021 - present	Ellie (formerly Lucas) Hodge[NRSC]
2021 - 2023	Lilian Azer
2020 - present	Mack Ma

Undergraduate and Post-Baccalaureate Mentor (select; *honors mentee)

2024 Su	Lauren Pittman (CSULB summer intern)
2024 W - present	Riley Barrios* (lab assistant)
2023 F - present	Kaikei Ng (lab assistant)
2023 F - 2024 S	Diana Aramyan (lab assistant; now graduate student, California Lutheran University)
2023 Su - 2025 Su	Kitzia Solis (lab assistant)
2022 Su - 2024 F	Jamilah Zubair (lab assistant)
2022 F - 2023 Su	Andrew Sun (lab assistant, staff research associate; now graduate student, Northeastern University)
2022 F - 2024 S	May MacCollum*
2021 F - 2023 W	Christina Asatryan*
2021 W - 2022 S	Shreya Agrawal*
2018 F - 2021 W	Kirolos Ibrahim (pre-med Health Coach Program, UC Riverside; medical student, Georgetown University)
2019 W - 2019 F	Sierra Cheung (senior thesis)
2018 Su - 2020 Su	Bryan Madero (lab assistant; graduate student, University of Iowa)
2018 W - 2023 S	Alex Alcaraz-Torres (lab assistant)
2017 S - 2020 Su	Corinna Franco* (lab assistant; graduate student, UC Los Angeles)
2017 W - 2018 S	Nicole Huffman*
2017 W - 2018 S	Sydney Schabacker* (Masters student, San Diego State University)
2016 F - 2018 S	Brianna Cabrera (lab manager; graduate student, UC Riverside)

PROFESSIONAL ACTIVITIES

Leadership and strategic planning

2024 - pres.	Chair, Psychology Department Executive Committee
2024	UC Women's Initiative for Professional Development
2023 - pres.	Area Head, Cognition and Cognitive Neuroscience, Psychology Departmnt
2022 - pres.	Co-Director, University of California, Riverside Aging Initiative
2017 - 2024	Member, Psychology Department Executive Committee

Editorial role

2025 - pres.	Social Media Editor, Neurobiology of Aging, Imaging Section
2023 - pres.	Reviewing (Associate) Editor, Neurobiology of Aging, Imaging Section

Reviewer

2018 - pres.	Ad-hoc grant reviewer, National Institutes of Health (panels in 2018, 2019

x2, 2021, 2024)
2017 Grant reviewer, Hungarian Academy of Sciences Momentum Program
2016 - 2020 Conference abstract reviewer, Western Psychological Association
2016 - 2017 Grant reviewer, National Science Foundation
2010 - pres. Manuscript reviewer for Annals of Neurology; Biological Psychology; Brain Connectivity; Brain Research; Cerebral Cortex; Cognitive and Behavioral Neurology; Cortex; Developmental Science; Experimental Aging Research; Hippocampus; Human Brain Mapping; Journal of Aging Research; Journal of Geriatric Psychiatry and Neurology; Journal of Neuroscience; Learning and Memory; Memory; Nature Communications; Neurobiology of Aging; Neuroimage; Neuroimage: Clinical; Neurology, Psychiatry, and Brain Research; Neuropsychologia; Neuroscience and Biobehavioral Reviews; PLOS ONE; Psychology and Aging; Scientific Reports; Translational Neuroscience

Hiring committees
2023 - 2024 Chair, Open-Rank Professor in Cognition and Cognitive Neuroscience
2022 - 2023 Member, Open-Rank Professor in Computational Neuroscience
2021 - 2022 Member, Assistant Professor in Neurocognitive Aging
2018 Member, Administrative Assistant, Psychology Department

Other department service
2024 - pres. Faculty Mentor, Halle Dimsdale-Zucker
2022 - 2023 Member, Graduate Admissions Committee, Psychology Department
2016 - 2019 Library liaison

Other campus service
2024 - pres. Member, ITS Governance Board
2019 - 2020 Member, Aging Initiative committees on Shared Resources for Human Research and Educational, Intellectual, and Social Resources
2007 - 2009 Campus representative, Association for Psychological Science
2007 - 2008 Graduate student representative, Psychology Department
2007 - 2009 Aging Committee Member, Research on Socially and Economically Underrepresented Populations (RiSEUP)

Conference moderation and organization
2023 Campus representative and session chair, Geroscience Los Angeles Meeting. Los Angeles, CA.
2022 Moderator, Exploring our Aging Brains. Virtual event series.
2016 Howard festschrift co-organizer, Cognitive Aging Conference. Atlanta, GA.
2010 Conference moderator, Dallas ACC Conference Abstracts. Dallas, TX.

Journal club and event organization
2024 - 2025 Organizer, Aging and Your Brain: Advancing Aging Research at UCR annual community event. Riverside, CA
2018 - 2019 Co-coordinator, Distinguished Cognitive Neuroscience Speaker Series
2017 - 2018 Co-coordinator, Neuroimaging Journal Club
2012 - 2013 Coordinator, Diffusion Tensor Imaging Journal Club

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2012 - 2013 American Psychological Assoc., Division 20 Adult Development and Aging
2008 - 2018 Society for Neuroscience
2006 - 2009 Association for Psychological Science
2005 - 2012 Cognitive Neuroscience Society