Curriculum Vitae

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Michael A. Yassa, Ph.D.

Pronouns: he/him/his

Professor of Neurobiology and Behavior, School of Biological Sciences
Professor of Neurology, School of Medicine
Professor of Psychiatry and Human Behavior, School of Medicine
Professor of Anatomy and Neurobiology, School of Medicine
James L. McGaugh Endowed Chair in the Neurobiology of Learning and Memory
Associate Dean of Diversity, Equity and Inclusion, School of Biological Sciences
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PUBLIC BIOGRAPHY

Dr. Michael Yassa is a Neuroscience Professor and James L. McGaugh Endowed Chair in the Neurobiology of Learning and Memory at the University of California, Irvine. Since 2016, he has served as director of the world-renowned Center for the Neurobiology of Learning and Memory. His research focuses on how our brains acquire and store memories and how they are used to guide everyday decisions. His lab's work addresses how memories are disrupted in conditions such as Alzheimer's dementia and major depressive disorder. Dr. Yassa received his bachelor's and master's degrees from the Johns Hopkins University and his PhD from the University of California, Irvine. He has been awarded over $50 million in research funding including grants from the National Institutes of Health and private foundations. He has authored or co-authored over 120 research articles and his work has been published in top tier academic journals. He has appeared on major news outlets including the BBC, CNN, ABC, NBC, and PBS, and featured on NPR and news outlets including *The New York Times*, *The Wall Street Journal*, *Washington Post*, and *The Guardian*. Dr. Yassa has received many awards for research, teaching mentoring and service excellence. Since 2020, he has served as Associate Dean of Diversity, Equity, and Inclusion in UCI's School of Biological Sciences, working to dismantle systemic barriers preventing minoritized scholars from thriving in academia and fostering inclusive research and training environments where different cultural identities are embraced.

RESEARCH GROUP MISSION STATEMENT

We strive to understand how brains can store and retrieve information and in using this knowledge to improve the human condition. We use cutting-edge human neuroscience tools to understand learning and memory in healthy and diseased brains. We are discovering ways in which our memory abilities change throughout the lifespan from childhood to older adulthood. We are developing approaches to diagnose and treat memory disorders in patients with progressive diseases like Alzheimer's disease or mood disorders like depression. We also explore the impact of lifestyle factors like sleep, diet, and exercise on memory and cognition. Our toolkit is dynamic and diverse. It includes cross-species brain imaging as well as direct electrophysiological recordings from the brains of epilepsy patients before they undergo neurological surgery. We develop and refine cognitive assessment tools, with the goal of designing improved diagnostic and prognostic tests that can be used in community settings. We are building new tools for high-resolution imaging to explore the brain's structure and function at fine levels of detail. Finally, we collaborate vigorously and widely with investigators across the globe and provide support to the community with open-source development and open data to facilitate team discovery.

EDUCATION

2002 B.A., Neuroscience, Johns Hopkins University, Baltimore MD
2007 M.A., Psychological & Brain Sciences, Johns Hopkins University, Baltimore MD
2010 Ph.D., Neurobiology and Behavior, University of California, Irvine, CA
Thesis: Neurocognitive aging and the human hippocampus

ACADEMIC POSITIONS

1999 - 2002 Research Data Assistant, Psychiatry, Johns Hopkins School of Medicine
2002 - 2005 Sr. Research Technologist, Psychiatry, Johns Hopkins School of Medicine
2005 - 2007 Graduate Assistant, Psychological and Brain Sciences, Johns Hopkins University
2008 - 2010 Graduate Assistant, Neurobiology and Behavior, University of California, Irvine
2008 - 2010 Adjunct Professor, School of Social Sciences, Irvine Valley College
2011 - 2013 Assistant Professor, Psychological & Brain Sciences, Johns Hopkins University
2014 - 2016 Assistant Professor, Neurobiology and Behavior, University of California, Irvine
2016 - 2018 Associate Professor, Neurobiology and Behavior, University of California, Irvine
2016 - Professor, Faculty of Health and Sport Sciences, University of Tsukuba, Japan
2016 - Director, Center for the Neurobiology of Learning and Memory, UC Irvine
2018 - Professor, Neurobiology and Behavior, University of California, Irvine
2018 - Director, UCI Brain Initiative, UC Irvine
2020 - Associate Dean of Diversity, Equity and Inclusion, Bio Sci, UC Irvine
2021 - James L. McGaugh Endowed Chair in the Neurobiology of Learning and Memory

AWARDS AND HONORS

2001 - Member, National Honor Society for Neuroscience (Nu Rho Psi)
2001 - Member, National Honor Society in Biology (Beta Beta Beta)
2001 - Member, National Honor Society in Psychology (Psi Chi)
2006 Graduate Research Fellowship Honorable Mention, National Science Foundation
2007 - 2010 Graduate Research Fellowship, National Science Foundation
2010 Fine Science Tools Travel Award in Neuroscience, University of California, Irvine
2010 Roger W. Russell Scholar's Award in the Neurobiology of Learning & Memory
2010 Carl Cotman Scholar's Award in the Neurobiology of Neurological Disorders
2011 Ossoff Scholars Award in Cognitive Disorders Research
2012 Distinguished Lectureship in Neuroscience and Aging, National Institute on Aging
2014 Eugene Williams Endowed Lectureship, St. Luke's Hospital, Chesterfield, MO
2015 Excellence in Teaching Award, National Society for Leadership and Success
2015 Departmental Service Award, UCI Department of Neurobiology and Behavior
2016 Robert Newcomb Interdisciplinary Team Science Award – 90+ Study (Co-I)
2017 Frank Logan 'Quad-L' Early Career Award in Learning, Memory, and Cognition
2017 - 2020 Chancellor's Fellow, University of California, Irvine
2018 Young Investigator Award, Cognitive Neuroscience Society
2018 Allen Edwards Endowed Lectureship, University of Washington
2018 Robert Newcomb Interdisciplinary Team Science Award – Conte Center (Co-I)
2018 Great Minds Series Inaugural Speaker, Board of Trustees, UC Irvine Foundation
2018 Eliot Stellar Endowed Lectureship in Neuroscience, University of Pennsylvania
2019 Robert Newcomb Interdisciplinary Team Science Award – BEACoN Group (PI)
2020 Service in Social Justice Award, UCI Department of Neurobiology and Behavior
2020 Inclusive Excellence Spirit Award, Office of Inclusive Excellence, UC Irvine
2023 Distinguished Faculty Award for Mentorship, University of California Academic Senate

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Memberships

1999 - Member, American Psychological Association
1999 - Member, American Public Health Association
2001 - Member, International Neuropsychological Society
2001 - Member, Society for Neuroscience
2002 - Member, Cognitive Neuroscience Society
2008 - Member, Faculty for Undergraduate Neuroscience
2010 - Member, International Society to Advance Alzheimer's Research and Treatment
2014 - Member, Neuroimaging Professional Interest Area, ISTAART
2015 - Member, Memory Disorders Research Society (elected)
2015 - Member, Faculty of 1000 Cognitive Neuroscience Division
2016 - Member, American Association for the Advancement of Science (AAAS)
2020 - Member, ALBA Network for Diversity and Inclusion in Brain Sciences

Grant and Institutional Reviews

2013 NSF CAREER Awards Modulation Panel
NIH-CSR Special Emphasis Panel SRG ZAG1 ZIJ-1 (J2)
Ontario Mental Health Foundation
MRC Cognition and Brain Sciences Unit Quinquennial Review, Cambridge
2015 University of Texas BRAIN Initiative
2016 Weston Brain Institute Transformational Research program, Canada
Alzheimer's Orange County Research Grant Program
UC Irvine Alzheimer's Disease Research Center Pilot Project Program
2017 NIH-CSR Institutional Research Training Grant T32 Review Panel ERB-X-01
Wolfson Research Merit Awards, The Royal Society, London, United Kingdom
2018 USC Alzheimer's Disease Research Center Pilot Project Program
United States – Israel Binational Science Foundation
NIH-CSR Special Emphasis Panel ZNS1 SRB K13
Chan Zuckerberg Initiative Collaborative Research Awards
2019 NIH-CSR Clinical Neuroscience and Neurodegeneration (CNN) Study Section
Fay/Frank Seed Program - Brain Research Foundation Reviews
Conte Center @ UCI Seed Funding Program
2020 NIH-CSR Clinical Neuroscience and Neurodegeneration (CNN) Study Section
NIH-CSR Learning and Memory (LAM) Study Section
NIH-CSR Special Emphasis Panel ZRG1 BBBP-D 02
DOD CDMRP Peer Reviewed Alzheimer's Research Program
Conte Center @ UCI Seed Funding Program
2021 Standing Member, NIH-CSR Learning, Memory, and Decision Neuroscience (LMDN)
Review Panel, AAAS Lifetime Mentor Awards
Conte Center @ UCI Seed Funding Program
Wellcome Trust Clinical Research Career Development Fellowship
2022 Vice Chair, NIH-CSR Learning, Memory, and Decision Neuroscience (LMDN)
Conte Center @ UCI Seed Funding Program
Reviewer, NIH NINDS Special Emphasis Panel for R13 Grant Program
Reviewer, NIH Office of the Director Special Emphasis Panel – NIH FIRST Program
2023 Conte Center @ UCI Seed Funding Program
2023 - 2025 Chair, NIH-CSR Learning, Memory, and Decision Neuroscience (LMDN)2021

Editorial Positions

2014 - 2015 Research Topic Editor, *Frontiers in Systems Neuroscience*
2017 - 2020 Research Topic Editor, *Frontiers in Molecular Neuroscience*
2017 - Associate Editor, *Frontiers for Young Minds*
2018 - Editorial Board Member, *Learning and Memory*
2019 Guest Editor, Special Issue in *Learning and Memory*
2020 - Editorial Board Member, *Behavioral Neuroscience*

Entrepreneurial and Commercial Activities

2020 - *Enthorin Therapeutics, LLC* | Co-Founder and Interim Chief Medical Officer
2021 - *Augnition Labs, LLC* | Co-Founder and Chief Scientific Advisor
2023 - *The Answer Project, LLC (TAP Neuro)* | Co-Founder and Scientific Advisor

Industry Consulting Roles

2015 - 2017 Consultant, Pfizer Pharmaceuticals, Boston, MA
2016 - 2018 Consultant, Dart Neuroscience, San Diego, CA
2020 - 2022 Consultant, Eisai Ltd, New Jersey, NJ
2019 - Consultant, BPT Pharmaceuticals, LLC
2020 - Consultant, Cognito Therapeutics, LLC
2021 - Consultant, CuraSen Therapeutics, Inc
2021 - Consultant, Myosin Therapeutics, Inc

Selected Journal Reviews (from over 150 journals)

Alzheimer's and Dementia
American Journal of Psychiatry
Annals of Neurology
Behavioral Neuroscience
Biological Psychiatry
Cerebral Cortex
Current Biology
Current Opin in Neurobiology
eLife
eNeuro
Eur Journal of Neuroscience
Hippocampus
Human Brain Mapping
JAMA Neurology
JAMA Psychiatry
Journal of Cog Neuroscience
Journal of Neuroscience
Lancet
Lancet Psychiatry
Lancet Neurology
Learning and Memory
Molecular Psychiatry
Nature
Nature Communications
Nature Neuroscience
Nature Reviews Neurosci
Neurobiology of Aging
Neurobiology Learn Mem
NeuroImage
Neuron
Neuropsychologia
Neuropsychopharmacology
Neurology
New England Journal Med
PLoS Biology
PNAS USA
Psychological Science
Science
Science Advances
Scientific Reports
Trends in Cognitive Science
Trends in Neuroscience

TEACHING ACTIVITIES

2008 - 2009 Psych 3 - Physiological Psychology, Irvine Valley College
2009 Psych 2 - Research Methods, Irvine Valley College
2011 - 2013 200.308 - Neurobiology of Learning & Memory, Johns Hopkins University
2011 - 2013 200.603 - Hippocampus Graduate Seminar, Johns Hopkins University
2011 - 2013 200.613 - Fundamentals of Psych and Brain Sci, Johns Hopkins University
2011 - 2013 440.812 - Neuroscience and Cognition II, Johns Hopkins School of Medicine
2012 200.207 - Research Methods in Experimental Psychology, Johns Hopkins University
2012 330.802 - Aging, Cognition & Dementia, Johns Hopkins University

2012 - 2013 200.614 - Core Topics in Psych and Brain Sci A, Johns Hopkins University (Graduate)
2014 - 2015 N112B - Neuroscience Fundamentals, University of California, Irvine
2014 - 2019 Bio37 - Brain Dysfunction and Repair, University of California, Irvine
2015 - 2016 N137 - Human Neuropsychology, University of California, Irvine
2016 - H195 (Honors) - Imaging from Molecules to Mind, University of California, Irvine
NB240 – Advanced Topics in Learning and Memory (Graduate)

ACADEMIC SERVICE

Johns Hopkins University

2006 - 2007 Psychology Department Colloquium Committee
2006 - 2007 fMRI Journal Club Coordinator
2011 - 2012 Behavioral Neuroscience Faculty Search Committee
2011 - 2012 Chair, Graduate Curriculum Restructuring Committee, Psychological & Brain Sciences
2011 - 2012 Member, Molecules to Mind Working Group, Science of Learning Initiative
2011 - 2013 Chair, Psychology Department Colloquium Committee
2011 - 2013 Hippocampus Journal Club Founder and Faculty Advisor
2011 - 2013 Psychology Department Graduate Awards Committee
2011 - 2013 Faculty Fellow-in-Residence and Director of Faculty Engagement
2011 - 2013 Protocol Review Committee, F. M. Kirby Functional Imaging Research Center
2011 - 2013 Faculty Advisor, Hopkins Undergraduate Research Journal
2012 Invited Expert, Science of Learning Initiative, JHU Leadership Summit
2012 - 2013 Cognitive Psychology Faculty Search Committee
2012 - 2013 Health Professions Committee
2012 - 2013 Interdepartmental Neuroscience Program Committee
2012 - 2013 Undergraduate Academic Ethics Panel

University of California, Irvine

2008 - 2010 MTL Journal Club Co-Founder and Coordinator
2008 - 2010 Neuroblitz Graduate Seminar Series Coordinator
2009 - 2010 Organizing Chair, UCI Chapter, Honor Society for Neuroscience
2009 Data Blitz Chair, Spring Neurobiology of Learning and Memory Meeting
2009 Panel Moderator, Spring Neurobiology of Learning and Memory Meeting
2014 Departmental Retreat Committee
2014 Center for the Neurobiology of Learning and Memory (CNLM) Awards Committee
2014 CNLM Spring Meeting Organizing Committee
2014 CNLM Executive Committee
2014 - 2016 CNLM Space/Resources Committee
2014 - 2016 CNLM Outreach and Public Relations Committee
2014 - 2016 Interdepartmental Neuroscience Program (INP) Executive Committee
2014 - 2017 Member, Exercise Medicine, and Sports Sciences Initiative (EMSSI)
2014 - 2020 Neurobiology and Behavior Department Tenure and Promotion Review Committees
2015 Chair, UCI-Tsukuba Mini-symposium on Exercise and Brain Health
2015 Chair, 50th Anniversary Retreat Committee
2015 - 2016 Campus Neuroimaging Strategic Vision Task Force
2015 - Neurobiology and Behavior Department Strategic Planning Committee
2016 - Director, Center for the Neurobiology of Learning and Memory
2016 - Executive Committee, Campus Center for Neuroimaging
2016 - 2018 Executive Board, Center for the Scientific Study of Creativity
2017 - 2018 Search Committee (8 positions), Sue and Bill Gross School of Nursing

2017 - 2019 Search Committee, Faculty Hiring for Leveraged Research Excellence
2017 - Neurobiology and Behavior Department Faculty Mentoring Committee
2018 Co-Host, *Why Our Brains Love Story*, UCI Brain Initiative and UCI Illuminations
2018 Interdisciplinarity Task Force, Academic Planning Group
2018 - 2019 Provost Leadership Academy Inclusive Excellence Working Group
2018 - 2020 Biological Sciences Strategic Planning Task Force
2018 - 2020 School of Biological Sciences Executive Committee
2018 - 2019 Search Committee, Exercise Neuroscience Strategic Hiring Initiative
2018 - 2019 Chair, Campus-wide Neuroscience PhD Planning Committee
2018 - Faculty Advisor, UCI Chapter of Nu Rho Psi (Honor Society for Neuroscience)
2018 - Director, UCI Brain Initiative, Office of the Provost
2019 - 2020 Representative, Divisional Senate Assembly, School of Biological Sciences
2019 Co-Host, Interdisciplinary Research Showcase and Workshop, Office of the Provost
2019 Host and Chair, UCI Brain Initiative Launch Event
2019 - Member, T32 Principal Investigator Council
2019 - Co-Host, Conte Center Annual Symposium
2020 - Member, Biological Sciences Committee on Academic Personnel (BioCAP)
2020 - Advisory Board, Black Thriving Initiative, Office of Inclusive Excellence
2020 - Chair, Steering Committee, UCI End Racism Initiative
2020 - Advisory Board, Center for Integrated Movement Sciences (CIMS)
2020 - Advisory Board, Leveraging Inspiring Futures Through Educational Degrees (LIFTED)
2021 Chair, Undergraduate Research Opportunities Program Inclusion Working Group
2021 - Advisory Board, Graduate Professional Success in STEM (GPS-STEM)
2021 - AAAS SEA Change Implementation Advisory Group, Office of Inclusive Excellence
2021 - Sexual Harassment Advisor, Office of Equal Opportunity, and Diversity (OEOD)
2021 - Member, Advanced Courses Subcommittee, Committee on Neuroscience PhD
2022 - 2023 Member, Search Committee, Chair of Department of Psychiatry and Behavioral Sciences
2022 - 2023 Member, Search Committee, Director of Noel Drury Depression Research Center

Scientific Community

2009 - 2010 Science Subcommittee, American Psychological Association
2012 Symposium Chair, Winter Neurobiology of Learning and Memory Meeting
2013 Conference Organizer and Chair, Hippocampal Subfield Segmentation Summit
2013 Conference Co-organizer, Hippocampal Subfield Segmentation Summit
2013 Symposium Chair, International Neuropsychological Association Meeting
2013 Conference Co-Chair, Winter Neurobiology of Learning and Memory Meeting
2014 Symposium Chair, Winter Neurobiology of Learning and Memory Meeting
2014 Conference Organizer and Chair, Hippocampal Subfield Segmentation Summit
2015 Symposium Chair, Winter Neurobiology of Learning and Memory Meeting
2015 Reviewer, Alzheimer's Association International Conference, Washington, DC
2016 Symposium Chair, Winter Neurobiology of Learning and Memory Meeting
2017 Host, Spring Conference on the Neurobiology of Learning and Memory
2017 Conference Organizer and Co-Chair, Physical Exercise and Brain Health Symposium
2017 Session Chair, NeuroCampus Conference: Early Signs of Cognitive Decline
2018 Faculty Judge, Irvine Brain Bee Competition
2018 Member, Inventory Working Group, International Brain Initiative (IBI)
2018 Conference Organizer and Co-Chair, IBI: Systems Implementation Workshop
2018 Chair, Program Committee, LEARNMEM2018, Huntington Beach, CA
2019 - Member, Advisory Board, Kavli Institute for Systems Neuroscience, NTNU, Trondheim, Norway
2020 Reviewer, Alzheimer's Association Int'l Conference, Amsterdam, The Netherlands
2020 - 2021 Member, STEMM Equity Achievement (SEA) Change Institute, AAAS
2020 - Member, SEA Change Initiative Advisory Council – AAAS

2021 - 2023 Justice, Equity, Diversity and Inclusion Committee, Memory Disorders Research Society
2021 - Member, AAAS Board-appointed Committee on Opportunities in Science (COOS)
2021 - Member, Advisory Board, Black in Neuro
2021 - Member, Advisory Board, ALBA Network for Diversity and Equity in Brain Sciences
2021 - Member, Advisory Board, Southern California Youth Neuroscience Association
2022 - Member, Diversity and Inclusion Committee, Human Connectome Project Course
2023 - Member, Advisory Board, Broadening the Representation of Academic Investigators in NeuroScience (BRAINS), University of Washington and the NINDS
2023 Chair, Program Committee, LEARNMEM2023, Huntington Beach, CA

INTELLECTUAL PROPERTY

Yassa, Michael A., Gattas, Sandra, Lynch, Gary. 2021. Methods for Derivation and Application of Synaptic Transfer Function. U.S. 63/276,847, filed November 8, 2021. Provisional patent.

PUBLICATIONS

Journal Articles

1. Assaf, M., Rivkin, P., Kuzu, C., Calhoun, V., Kraut, M., Groth, K., Yassa, M.A., Hart, J., Pearlson, G. (2005) Abnormal object-recall and anterior cingulate over-activation correlate with formal thought disorder in schizophrenia. *Biological Psychiatry* 59: 452-459.
2. Bassett, S., Kusevic, I., Cristinzio, C., Yassa, M.A., Avramopoulos, D., Yousem, D., Fallin, M. (2005) Brain activation in offspring of AD cases corresponds to 10q linkage. *Annals of Neurology* 58: 142-146.
3. Reading, S., Yassa, M.A., Dziorny, A., Gourley, L., Yallapragada, V., Rosenblatt, A., Margolis, R., Aylward, E., Brandt, J., Mori, S., van Zijl, P., Bassett, S., Ross, C. (2005) Regional white matter change in pre-symptomatic Huntington's disease: a diffusion tensor imaging study. *Psychiatry Research: Neuroimaging* 140(1): 55-62.
4. Bassett, S., Yousem, D., Cristinzio, C., Kusevic, I., Yassa, M.A., Caffo, B., Zeger, S. (2006) Familial risk for Alzheimer's disease alters fMRI activation patterns. *Brain* 129: 1229-1239.
5. Bazin, P.L., Cuzzocreo, J.L., Yassa, M.A., Gandler, W., McAuliffe, M.J., Bassett, S.S., Pham, D.L. (2007) Volumetric neuroimage analysis extensions for the MIPAV software package. *Journal of Neuroscience Methods* 165(1):111-21.
6. Yassa, M.A., Verduzco, G., Cristinzio C., Bassett, S. (2008) Altered fMRI activation during mental rotation in those at genetic risk for Alzheimer's disease. *Neurology* 70(20):1898-904.
7. Yassa, M.A., Stark, C.E.L. (2008) Multiple Recognition-related signals in the medial temporal lobe. *Hippocampus* 18(9): 945-954.
8. Yassa, M.A., Stark, C.E.L. (2009) A quantitative evaluation of cross-participant alignment techniques for MRI studies of the medial temporal lobe. *NeuroImage* 44(2):319-327.
9. Cuzzocreo, J., Yassa, M.A., Verduzco, G., Honeycutt, N., Scott, D., Bassett, S. (2009) Effect of handedness on a verbal auditory memory fMRI task. *Human Brain Mapping* 30(4):1271-1278.
10. Yousem, D.M., Yassa, M.A., Cristinzio, C., Kusevic, I., Mohamed, M., Caffo, B.S., Bassett, S.S. (2009) Intelligence and medial temporal lobe function in older adults: A Functional MR Imaging-based investigation. *American Journal of Neuroradiology* 30(8):1477-81.
11. Bonekamp, D., Yassa, M.A., Munro, C. Geckle, R., Yousem, D., Barker, P.B., Schretlen, D.J., Brandt, J., Horska, (2009) A. Gray Matter in Amnestic Mild Cognitive Impairment: Voxel-based Morphometry. *NeuroReport* 21(4):259-63.
12. Gallagher, M., Bakker, A., Yassa, M.A., Stark, C.E.L. (2010) Bridging neurocognitive aging and disease modification: targeting functional mechanisms of impairment. *Current Alzheimer's Research* 7, 197-199.

13. Yassa, M.A., Stark, S.M., Bakker, A., Albert, M.S., Gallagher, M., Stark, C.E.L. (2010) High-resolution functional MRI of hippocampal CA3 and dentate gyrus in patients with amnestic mild cognitive impairment. *NeuroImage* 51:1242-1252.
14. Yassa, M.A., Lacy, J.W., Stark, S.M., Albert, M.S., Gallagher, M., Stark, C.E.L. (2010-11) Pattern separation deficits associated with increased hippocampal CA3 and dentate gyrus activity in nondemented older adults. *Hippocampus* 21:968-979.
15. Stark, S.M., Yassa, M.A., Stark, C.E.L. (2010) Individual differences in spatial pattern separation performance associated with healthy aging in humans. *Learning and Memory* 17(6):284-8.
16. Yassa, M.A., Muftuler, L.T., Stark, C.E.L. (2010) Ultrahigh-resolution microstructural diffusion tensor imaging (msDTI) elucidates perforant path degradation in aged humans in vivo. *Proceedings of the National Academy of Sciences U S A* 107(28): 12687-91.
17. Lacy, J.W., Yassa, M.A., Stark, S.M., Stark, C.E.L. (2011) Distinct pattern separation related transfer functions in human CA3/dentate and CA1 revealed using high-resolution fMRI and variable mnemonic similarity. *Learning and Memory* 18(1):15-18.
18. Yassa, M.A., Mattfeld A.T., Stark, S.M., Stark, C.E.L. (2011) Age-related memory deficits linked to circuit-specific disruptions in the hippocampus. *Proceedings of the National Academy of Sciences U S A* 108(21):8873-8.
19. Yassa, M.A. (2011) Searching for novel biomarkers using high resolution diffusion tensor imaging. *Journal of Alzheimer's Disease* 26:297-305.
20. Yassa, M.A., Stark, C.E.L. (2011) Pattern separation and the hippocampus. *Trends in Neuroscience* 34(10):515-525.
21. Segal, S., Stark, S.M., Kattan, D., Stark, C.E., Yassa, M.A. (2012) Norepinephrine-mediated emotional arousal facilitates subsequent pattern separation. *Neurobiology of Learning and Memory* 97(4): 465-469.
22. Bakker, A., Krauss, G., Albert, M.A., Speck, C.L., Jones, L.R., Stark, C.E., Yassa, M.A., Bassett, S.S., Shelton, A.L., Gallagher, M. (2012) Reducing hippocampal hyperactivity improves cognition in mild cognitive impairment. *Neuron* 74, 467-474.
23. Yassa, M.A., Hazlett, R.L., Stark, C.E., Hoehn-Saric, R. (2012) Functional MRI of the amygdala and bed nucleus of the stria terminalis during conditions of uncertainty in generalized anxiety disorder. *Journal of Psychiatric Research* 46(8):1045-1052.
24. Stark, S.M., Yassa, M.A., Lacy, J.W., Stark, C.E. (2013) A task to assess behavioral pattern separation (BPS) in humans: data from healthy aging and mild cognitive impairment. *Neuropsychologia* 51(12):2442-9.
25. Kim, J., Yassa, M.A. (2013) Assessing recollection and familiarity of similar lures in a behavioral pattern separation task. *Hippocampus* 23(4): 287–294.
26. Leal, S., Yassa, M.A. (2013) Perturbations of Neural Circuitry in Aging, Mild Cognitive Impairment, and Alzheimer's Disease. *Ageing Research Reviews* 12(3):823-31.
27. Ly, M., Murray, E., Yassa, M.A. (2013) Perceptual versus conceptual interference and pattern separation of verbal stimuli in young and older adults. *Hippocampus* 23:425-430.
28. Schwab, E., Cetingul, E., Afsari, B., Yassa, M.A., Vidal, R. (2013) Rotation invariant features for HARDI. *Information Processing in Medical Imaging - Lecture Notes in Computer Science* 7917: 705-717.
29. Schurgin, M.W., Reagh, Z.M., Yassa, M.A., Flombaum, J.I. (2013) Spatiotemporal continuity alters long-term memory representations. *Visual Cognition* 21:6, 715-718.
30. Reagh, Z.M., Roberts, J.M., Ly, M., DiProspero, N., Murray, E., Yassa, M.A. (2013) Spatial discrimination deficits as a function of mnemonic interference in aged adults with and without memory impairment. *Hippocampus* 24(3):303–314.
31. Yassa, M.A., Reagh, Z.M. (2013) Competitive Trace Theory (CTT): A role for the hippocampus in contextual interference during retrieval. *Frontiers in Behavioral Neuroscience* 7:107.
32. Borota, D., Murray, E., Watabe, J., Keceli, G., Toscano, J. Yassa, M.A. (2014) Post-study caffeine administration enhances memory consolidation in humans. *Nature Neuroscience* 17:201–203.
33. Yassa, M.A. (2014) Ground zero in Alzheimer's disease. *Nature Neuroscience* 17:146–147.
34. Leal, S., Tighe, S., Yassa, M.A. (2014) Asymmetric effects of emotion on mnemonic interference. *Neurobiology of Learning and Memory* 111:41-48.

35. Reagh, Z.M., Yassa, M.A. (2014) Repetition strengthens target recognition but impairs similar lure discrimination: Evidence for trace competition. *Learning and Memory* 21: 342-346.
36. Leal, S.L., Tighe, S.K., Jones, C.J., Yassa, M.A. (2014) Pattern separation of emotional information in hippocampal dentate and CA3. *Hippocampus* 24(9): 1146-1155.
37. Roberts, J.M., Ly, M., Murray, E., Yassa, M.A. (2014) Temporal discrimination deficits as a function of lag interference in older adults. *Hippocampus* 24(10):1189-96.
38. Anderson, B.A., Leal, S.L., Hall, M.G., Yassa, M.A., Yantis, S. (2014) The attribution of value-based attentional priority in individuals with depressive symptoms. *Cognitive, Affective, and Behavioral Neuroscience* 14(4):1221-7.
39. Leal, S.L., Yassa, M.A. (2014) Effect of aging on mnemonic discrimination of emotional information. *Behavioral Neuroscienc*e 128(5):539-547.
40. Reagh, Z.M., Yassa, M.A. (2014) Object and spatial mnemonic interference differentially engage lateral and medial entorhinal cortex in humans. *Proceedings of the National Academy of Sciences U S A* 111(40):E4264-73.
41. Reagh, Z.M., Watabe, J., Ly, M., Murray, E., Yassa, M.A. (2014) Dissociated signals in human dentate gyrus and CA3 predict different facets of recognition memory. *Journal of Neuroscience* 34(40):13301-13.
42. Yushkevich, P.A., Amaral, R.S.C., Augustinack, J.C., Bender, A.R., Bernstein, J.D., Boccardi, M., Bocchetta, M., Burggren, A.C., Carr, V.A., Chakravarty, M.M., Chetelat, G., Daugherty, A., Davachi, L., Ding, S.L., Ekstrom, A., Geerlings, M.I., Hassan, A., Huang, YU., Iglesias, E., La Joie, R., Kerchner, G.A., LaRoque, K., Van Leemput, K., Libby, L.A., Malykhin, N., Mueller, S.G., Olsen, R.K., Palombo, D.J., Parekh, M., Pluta, J., Preston, A.R., Pruessner, J.C., Ranganath, C., Raz, N., Schlichting, M.L., Shoemaker, D., Singh, S., Stark, C.E.L., Suthana, N., Tompary A., Turowskiah, M.M., Wagner, A.D., Wang, L., Winterburn, J.L., Wisse, L.E.M., Yassa, M.A., Zeineh, M.M. for the Hippocampal Subfield Group (HSG) (2015). Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal cortical subregions in in vivo MRI: initial steps towards a harmonized segmentation protocol. *Neuroimage* 111:526-41.
43. Chang, A., Murray, E. A., Yassa, M.A. (2015) Expertise and pattern separation: A potential mechanism for the “other race” effect. *Behavioral Neuroscience* 129(5):666-672.
44. Schwab, E., Yassa, M.A., Weiner, M., Vidal, R. (2015) HARDI feature selection, registration, and atlas building applied to Abeta pathology characterization. *Medical Image Computing and Computer-Assisted Interventions (MICCAI) Computational and Diffusion MRI* 207-218.
45. Cunningham, C., Yassa, M.A., Egeth, H.E. (2015) Massive memory revisited: Limitations on storage capacity for object details in visual long-term memory. *Learning & Memory* 22(11):563-6.
46. Leal, S.L., Yassa, M.A. (2015) Neurocognitive aging and the hippocampus across species. *Trends in Neurosciences* 38(12): 800–812.
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116. Márquez, F., Noche, J., Larson, M.S., Delisle, D., Murray, E., McMillan, L., Witbracht, M., Sirivong, S., Grill, J., Yassa, M.A. (2018) Hippocampal cingulum white matter integrity contributes to spatial discrimination in older adults. Society for Neuroscience.
117. Granger, S., Leal, S.L., Murray, E.A., Yassa, M.A. (2018) Structural integrity deficits of uncinated fasciculus predict medial temporal lobe activity during an emotional pattern separation task. Society for Neuroscience.
118. Stevenson, R.F., Janecek, J.T., Zheng, Z., Mnatsakanyan, L., Vadera, S., Knight, R., Lin, J.J., Yassa, M.A. (2018) Gamma power in the human medial temporal lobe and prefrontal cortex predicts error and learning in a spatial memory task. Society for Neuroscience.
119. Byun, K., Suwabe, K., Hyodo, K., Tustison, N., Yassa, M.A., Soya, H. (2018) Effects of a six-week mild exercise intervention on volume of the hippocampal dentate gyrus and CA3. Society for Neuroscience.
120. DiProspero, N., McMillan, L., Smith, A.P., Larson, M.S., Doran, E., Lott, I., Yassa, M.A. (2018) Functional connectivity in a Down syndrome model of preclinical Alzheimer's disease. Society for Neuroscience.
121. Harriger, L., Yassa, M.A., Mander, B.A., Knight, R.T., Lin, J.J. (2018) Spatiotemporal coupling of slow-wave and spindle activity during sleep. Society for Neuroscience.
122. Gattas, S., Lin, J., Yassa, M.A. (2019) Electrophysiological signatures of pattern separation in humans. CNLM Spring Conference on Learning and Memory.
123. Granger, S., Yassa, M.A. (2019) In-vivo microdissection of MTL subfields using ultrahigh-resolution diffusion imaging in the oldest old. CNLM Spring Conference on Learning and Memory.
124. DiProspero, N.D., Keator, D.B., van Erp, T.G.M., Doran, E., Lott, I., Yassa, M.A. (2019) Reduced long-range default mode connectivity predicts conversion to Alzheimer's disease in older individuals with Down syndrome. Society for Neuroscience.
125. Gattas, S., Lin, J.J., Yassa, M.A. (2019) Pattern separation beyond the hippocampus: Neocortico-hippocampal mechanisms of pattern separation in humans. Society for Neuroscience.
126. Granger, S.J., Larson, M.S., Sathishkumar, M., Smith, A.P., Kawas, C.H., McMillan, L., Corrada-Bravo, M., Greenia, D., Yassa, M.A. (2019) Ultrahigh resolution diffusion imaging reveals abnormal medial

temporal lobe integrity predicts poor performance on RAVLT delayed recall in the oldest old. Society for Neuroscience.

127. Sathishkumar, M., Adams, J. Baram, T.Z., Yassa, M.A. (2019) The neural circuit bases of prolonged maternal grief for the loss of her child. Society for Neuroscience.
128. Larson, M., Sathishkumar, M., Smith, A., DiPropspero, N., McMillan, L., Greenia, D., Corrada-Bravo, M., Kawas, C.H., Witbracht, M., Grill, J., Yassa, M.A. (2019) Mnemonic discrimination in the oldest old and relationship with volumes of medial temporal lobe and striatal regions. Society for Neuroscience.
129. Yaros, J.L., Salama, D., Delisle, D., Larson, M.S., Miranda, B.A., Yassa, M.A. (2019) A Memory Computational Basis for the Other-Race Effect. Society for Neuroscience.
130. Márquez, F., Yassa, M.A. (2019) Functional connectivity of the medial temporal lobe contributes to spatial discrimination impairments in non-demented older adults with and without memory impairments. Society for Neuroscience.
131. Sathishkumar M., Janecek J., Phelan M., Keator D.B., Doran E., Hom C., Nguyen D., Hsu E., Igwe K., Banerjee A., Rosas D.H., Lai F., Brickman A., Schupf N., Silverman W., Lott I.T., Yassa M.A. (2019) Medial Temporal Lobe Structural Deficits Associated with Alzheimer's Dementia in Individuals with Down Syndrome. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
132. Keator D.B., Price J., Kreisl W.C., Yassa M.A., Phelan M.J., Doran E., Hom C., Nguyen D., Lai F., Pulsifer M., Rosas D.H., Krinsky-McHale S., Brickman A., Schupf N., Silverman W., Lott I.T. (2019) Baseline Amyloid (18F-AV-45 PET) Distributions by Consensus Diagnosis from the Alzheimer's Disease in Down Syndrome (ADDS) Consortium. Human Brain Mapping.
133. Keator D.B., Price J., Kreisl W.C., Yassa M.A., Phelan M.J., Doran E., Hom C., Nguyen D., Lai F., Pulsifer M., Rosas D.H., Krinsky-McHale S., Brickman A., Schupf N., Silverman W., Lott I.T. (2019) Baseline Amyloid (18F-AV-45 PET) Distributions by Consensus Diagnosis from the Alzheimer's Disease in Down Syndrome (ADDS) Consortium. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
134. Rosas D.H., Mercaldo N., Hsu E., Brickman A., Pulsifer M., Pang D., Jordan C., Doran E., Yassa M.A., Keator D.B., Sathishkumar M., Price J., Krinsky-McHale S., Silverman W., Lott I.T., Schupf N., Lai F. (2019) Alzheimer's Related Altered Microstructure Integrity in Down Syndrome. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
135. Gattas, S., Lin, J.J., Yassa, M.A. (2020) Neocortical-hippocampal interactions supporting pattern separation in humans. Park City Winter Neurobiology of Learning and Meeting.
136. DiPospero N., Keator D.B., VanErp T., Doran E., Lott I.T., Yassa M.A. (2020) Reduced Long-Range Default Mode Connectivity Predicts Conversion to Alzheimer's Disease in Older Individuals with Down Syndrome. Park City Winter Neurobiology of Learning and Meeting.
137. Chen, I.Y., Neikrug, A.B., Adams, J., McMillan, L., Yassa, M.A., Benca, R.M. (2020). Altered actigraphic behavioral activity rhythm in depression. Sleep.
138. Chappel-Farley, M.G., Nan, B., Grill, J., Mander, B., Yassa, M.A., Benca, R.M. (2020). Sleep as a mediator of the relationship between exercise and self-reported cognitive function. Sleep.
139. Sathishkumar, M., Janecek, J., Smith, A., Phelan, M., Tustison, N., Keator, D., Doran, E., Hom, C., Nguyen, D., Melissa Petersen, P., Rosas, H.D., Lai, F., Brickman, A.M., Schupf, N., Silverman, W., Lott, I.T., O'Bryant, S., Yassa, M.A. (2020) Anterolateral entorhinal cortical thinning as a biomarker for Alzheimer's disease in Down syndrome. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
140. Márquez, F., Larson, M.S., Miranda, B., McMillan, L., Sathishkumar, M., Yassa, M.A. (2020) Neurocognitive mechanisms of spatial pattern separation in older adults with and without subclinical memory impairment. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
141. Sathishkumar, M., Larson, M.S., Taylor, L., Keator, D., Hollearn, M.K., Miranda, B.A., Tutison, N., McMillan, L., Gillen, D., Yassa, M.A. (2020) Hippocampal volume loss is associated with PET amyloid deposition in nondemented elderly individuals. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
142. Lao, P.J., Igwe, K.C., Rizvi, B., Sathishkumar, M., Rosas, H.D., Lai, F., Silverman, W., Lott, I., Schupf, N., Yassa, M.A., Brickman, A. (2020) Cross-sectional and longitudinal associations of white matter

hyperintensities and cortical thickness in the Biomarkers of Alzheimer's disease in Down syndrome study. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).

143. Jullienne, A., Lee, J.B., Yassa, M.A., Territo, P.R., Obenaus, A. for the MODEL-AD Consortium (2020) Lifespan diffusion MRI reveals abnormalities in the 5xFAD model of Alzheimer's disease. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
144. Pagen, L., Smeets, T., Muller-Ehrenberg, L., Yassa, M.A., Verhey, F., Jacobs, H. (2020) Pilot Study: Stress-induced Noradrenergic activity as potential indicator for practice effects. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
145. Kark, S., Adams, J., McMillan, L., Yassa, M.A. (2020) Dynamic resting connectivity of the mesolimbic system is associated with individual differences in reward sensitivity. Abstract and Poster Presentation at the Cognitive Neuroscience Society Annual Meeting.
146. Yaros, J.L., Salama, D.A., Delisle, D., Larson, M.S., Miranda, B.A., Hollearn, M., Houalla, B., Yu, G., Jirsaraie R., Yassa, M.A. (2020) Differential mnemonic discrimination of faces: A contributing mechanism to the other-race effect. Abstract and Poster Presentation at the Cognitive Neuroscience Society Annual Meeting.
147. Damronthai, C., Kuwamizu, R., Suwabe, K., Ochi, G., Yamazaki, Y., Adachi, K., Yassa, M.A., Soya, H. (2020) Acute moderate running boosts positive mood and executive function coinciding with prefrontal activation: An fNIRS study. Abstract and Poster Presentation at the Society for Neuroscience Annual Meeting.
148. Harhen, N.C., Baram, T.Z., Yassa, M.A., Bornstein, A.M. (2020). Formalizing the relationship between early life adversity and addiction vulnerability: the role of memory sampling. Society of Biological Psychiatry Annual Meeting.
149. Rosas, H.D., Hasimoglu, Y., Mercaldo, N., Lai, F., Peterson, M., Brickman, A., Yassa, M.A., Lott, I.T., Silverman, W., Schupf, N., O'Bryant, S. (2021) Alterations in white matter integrity in cognitively stable Down syndrome correlate with neurofilament light chain; evidence of early myelin breakdown. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
150. Jutten, R.J., Amariglio, R.E., Properzi, M.J., Buckley, R.F., Yassa, M.A., Johnson, K.A., Sperling, R.A., Rentz, D.M., Papp, K.V. (2021) Monthly computerized at-home assessments to detect cognitive change in preclinical Alzheimer's disease. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
151. Kark, S. M., Adams, J., Sathishkumar, M. T., McMillan, L., Granger, S., Baram, T.Z., & Yassa, M. (2021). Enduring maternal grief following child loss alters resting connectivity of the paraventricular thalamic nucleus. Poster presented at Cognitive Neuroscience Society Annual Meeting.
152. Kark, S. M., Adams, J., McMillan, L., Granger, S., Baram, T.Z., & Yassa, M. (2021). Functional, dynamic brain circuit changes underlie enduring maternal grief for the loss of her child. Poster presented at The Social and Affective Neuroscience Society Annual Meeting.
153. Taylor, L., Doran, E., Poline, J.B., Nguyen, D., Krinsky-McHale, S., Price, J., Kreisl, W.C., Hom, C., Pulsifer, M., Lai, F., Rosas, H.D., Brickman, A., Schupf, N., Silverman, W., Lott, I.T., Yassa, M.A., Keator, D.B. (2021) Correspondence between cortical tau and atrophy in aged non-demented adults with Down syndrome. Abstract and Poster Presentation at the Alzheimer's Association International Conference (AAIC).
154. Lao, P., Zimmerman, M.E., Gutierrez, J., Keator, D., Igwe, K.C., Laing, K.R., Cotton-Samuel, D., Sathishkumar, M., Moni, F., Andrews, H., Krinsky-McHale, S., Head, E., Lee, J.H., Lai, F., Yassa, M.A., Rosas, H.D., Silverman, W., Lott, I., Schupf, N., Brickman, A. (2021) Sleep apnea may be a modifiable target in the development of cerebrovascular disease and cortical amyloid in older adults with Down syndrome. Trisomy 21 Research Society (T21RS) Annual Conference.
155. Jutten, R.J., Rentz, D.M., Amariglio, R.E., Buckley, R.F., Properzi, M.J., Maruff, P., Stark, C.E., Yassa, M.A., Johnson, K.A., Sperling, R.A., Papp, K.V. (2021) Monthly at-home computerized cognitive testing to detect diminished practice effects in preclinical Alzheimer's disease. Abstract and Poster Presentation at Clinical Trial in Alzheimer's Disease (CTAD) 2021.
156. Granger, S., Adams, J., Kark, S.M., Sathishkumar, M., Chen, I., Benca, R.M., McMillan, L., Janecek, J., Yassa, M.A. (2021) Latent anxiety in clinical depression is associated with worse recognition of emotional stimuli. Abstract and Poster Presentation at the Society for Neuroscience Annual Meeting.

157. Kim, S., Chappel-Farley, M., Keator, D., Janecek, J., McMillan, L., Miranda, B., Mikhail, A., Yassa, M.A. (2021) Examining the diagnostic utility of the mnemonic discrimination task for classification of cognitive status and amyloid-beta positivity. Abstract and Poster Presentation at the Society for Neuroscience Annual Meeting.
158. Rizvi, B., Sathishkumar, M., Márquez, F., Granger, S., McMillan, L., Brickman, A., Tustison, N., Yassa, M.A. (2021) Regional white matter hyperintensities are associated with reduced medial temporal lobe subregion volumes in older adults. Abstract and Poster Presentation at the Society for Neuroscience Annual Meeting.
159. Delarazan, A., Karagoz, A., Montchal, M., Yassa, M.A., Ranganath, C., Reagh, Z. (2021) Hippocampal and entorhinal contributions to naturalistic event context reinstatement. Abstract and Poster Presentation at the Society for Neuroscience Annual Meeting.
160. Rizvi, B., Lao, P., Sathishkumar, M., Laing, K., Igwe, K., McMillan, L., Keator, D., Doran, E., Hom, C., Nguyen, D., Rosas, H.D., Lai, F., Schupf, N., Silverman, W., Lott, I.T., Mapstone, M., Head, E., Brickman, A., Yassa, M.A. (2022). Associations of Pulse Pressure with Alzheimer's Disease-Related Structural Imaging Markers and Memory in Down Syndrome. Abstract and Poster Presentation at the International Neuropsychological Society Meeting.
161. Diaz, V., Memel, M., Gaynor, L., Gontrum, E., Chan, B., Lario-Lago, A, Yassa, M.A., Rojas, J.C., Casaletto, K.B., Kramer, J.H., Saloner, R. (2022) APOE genotype moderates the relationship between plasma phosphorylated-tau181 and pattern separation performance in non-demented adults. Abstract and Poster Presentation at the Alzheimer's Association International Conference.
162. Rizvi, B., Sathishkumar, M., Larson, M.S., Tustison, N.J., McMillan, L., Greenia, G., Corrada, M.M., Kawas, C., Yassa, M.A. (2022) The effect of age on mnemonic discrimination is fully mediated by posterior cerebral artery-defined white matter hyperintensities. Abstract and Poster Presentation at the Alzheimer's Association International Conference.
163. Adams, J.A., Chappel-Farley, M.G., Yaros, J.L., Taylor, L., Harris, A.L., Mikhail, A., McMillan, L., Keator, D.B., Yassa, M.A. (2022) Functional network modularity and efficiency support episodic memory in cognitively normal older adults with amyloid-beta pathology. Abstract and Poster Presentation at the Alzheimer's Association International Conference.
164. Adams, J.N., Kim, S., Taylor, L., Harrison, T.M., Harris, A.L., Mikhail, A., Keator, D., McMillan, L., Yassa, M.A. Tau pathology in medial temporal lobe is related to object mnemonic discrimination performance in older adults. Poster presented at the Tau2022 Global Conference (virtual). February, 2022
165. Berisha, D.E., Chappel-Farley, M.G., Malhas, R., Gross, T.J., Chen, I.Y., Dave, A., Lui, K.K., Neikrug, A.B., Yassa, M.A., Benca, R.M., Mapstone, M., Mander, B.A. (2022) Associations between obstructive sleep apnea, inflammation, and cortical **β**-amyloid burden in cognitively unimpaired older adults. Abstract and Poster Presentation at the World Sleep Conference.
166. Chappel-Farley, M.G., Mander, B.A., Neikrug, A.B., Dave, A., Lui, K.K., Chen, I.Y., Yassa, M.A., Benca, R.M. (2022) Obstructive sleep apnea-related blood oxygen desaturation is associated with preferential consolidation of negative memories in older adults. Abstract and Poster Presentation at the World Sleep Conference.
167. Chwiesko, C., Kim, S., Adams, J.N., Rizvi, B., Liu, P., McMillan, L., Yassa, M.A. (2022) Cerebrovascular reactivity of the hippocampus predicts pattern separation performance. Abstract and Poster Presentation at the Conte Center Annual Symposium.
168. Leonard, B., Kark, S.M., Stith, L., Small, S., Sandman, C., Davis, E., Glynn, L., Baram, T.Z., Yassa, M.A. (2022). Functional connectivity of the paraventricular nucleus of the thalamus in children and adolescents. Abstract and Poster Presentation at the Conte Center Annual Symposium.
169. Adams, J.N., Kim, S., Rizvi, B., Sathishkumar, M., Taylor, L., Harris, A.L., Mikhail, A., Keator, D.B., McMillan, L., Yassa, M.A. (2022) Entorhinal-hippocampal circuit integrity is related to mnemonic discrimination and amyloid-β pathology in older adults. Abstract and Poster Presentation at the Conte Center Annual Symposium.
170. Chappel-Farley, M., Mander, B.A., Neikrug, A.B., Dave, A., Lui, K., Chen, I., Yassa, M.A., Benca, R.M. (2022) Obstructive sleep apnea-related blood oxygen desaturation is associated with preferential consolidation of negative memories in older adults. Abstract and Poster Presentation at the Conte Center Annual Symposium.

171. Rizvi, B., Sathishkumar, M., Marquez, F., Granger, S.J., Hollearn, M.K., McMillan, L., Tustison, N.J., Lao, P.J., Brickman, A.B., Greenia, D., Corrada, M.M., Kawas, C.H., Yassa, M.A. (2022) Association between regional white matter hyperintensities and long-term memory is mediated by medial temporal lobe subregional volumes in older adults. Abstract and Poster Presentation at the Conte Center Annual Symposium.
172. Kim, S., Chappel-Farley, M.G., Janecek, J., Keator, D., Mikhail, A., Hollearn, M., McMillan, L., Yassa, M.A. (2022) Examining the diagnostic utility of the mnemonic discrimination task for classification of cognition and amyloid-b burden. Abstract and Poster Presentation at the Conte Center Annual Symposium.
173. Granger, S.J., Colon-Perez, L., Larson, M.S., 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. (2022) Advances in Ultrahigh Resolution Diffusion Imaging to Detect Medial Temporal Lobe Integrity in Aging and Verbal Memory Impairment. Abstract and Poster Presentation at the Conte Center Annual Symposium.
174. Stith, L., Adams, J., Nye, V., Yassa, M.A. (2022) Redesigning Highly Superior Autobiographical Memory (HSAM) Assessment Tools with Confidence: The Event Recognition Task. Abstract and Poster Presentation at the Conte Center Annual Symposium.
175. DiProspero, N., Sathishkumar, M., McMillan, L., Keator, D.B., Doran, E., Hom, C., Nguyen, D., Rosas, H.D., Lai, F., Brickman, A.M., Schupf, N., Silverman, W., Lott, I.T., Yassa, M.A. (2022) Functional connectivity in the default mode network and medial temporal lobe network changes in the course of Alzheimer's disease in individuals with Down syndrome. Abstract and Poster Presentation at the Conte Center Annual Symposium.
176. Queder, N., McMillan, L., Sathishkumar, M., Taylor, L., Doran, E., Nguyen, D., Keator, D.B., Hom, C., Price, J., Kreisl, W.C., Rosas, H.D., Brickman, A.M., Schupf, N., Silverman, W., Lott, I.T., Head, E., Mapstone, M., Yassa, M.A. Regional tau Accumulation in the Entorhinal Cortex and Hippocampus is Associated with Memory Performance in Down Syndrome. Abstract submitted to Trisomy 21 Conference 2022.
177. Nye, V., Stith, L., Adams, J., Yassa, M.A. (2022). The event recognition task: a personalized screening tool for highly superior autobiographical memory. Poster presented at the Annual Spring Conference of the Center for the Neurobiology of Learning and Memory, 2022.
178. Adams, J.N., Kim, S., Taylor, L., Harrison, T.M., Harris, A.L., Mikhail, A., Keator, D., McMillan, L., Yassa, M.A. (2022) Associations between Alzheimer's pathology and episodic memory are mediated by medial temporal lobe subregional volume in older adults. Poster presented at the Annual Spring Conference of the Center for the Neurobiology of Learning and Memory, 2022.
179. Berisha, D.E., Chappel-Farley, M.G., Malhas, R., Gross, T.J., Chen, I.Y., Dave, A., Lui, K.K., Neikrug, A.B., Yassa, M.A., Benca, R.M., Mapstone, M., Mander, B.A. (2022) Associations between obstructive sleep apnea, inflammation, and cortical **β**-amyloid burden in cognitively unimpaired older adults. Poster presented at the Annual Spring Conference of the Center for the Neurobiology of Learning and Memory, 2022.
180. Kim, S., Chappel-Farley, M., Keator, D., Janecek, J., McMillan, L., Miranda, B., Mikhail, A., Yassa, M.A. (2022) Examining the diagnostic utility of the mnemonic discrimination task for classification of cognitive status and amyloid-beta positivity. Poster presented at the Annual Spring Conference of the Center for the Neurobiology of Learning and Memory, 2022.
181. Leonard, B., Kark, S.M., Stith, L., Small, S., Sandman, C., Davis, E., Glynn, L., Baram, T.Z., Yassa, M.A. (2022). Functional connectivity of the paraventricular nucleus of the thalamus in children and adolescents. Poster presented at the Annual Spring Conference of the Center for the Neurobiology of Learning and Memory, 2022.
182. Rizvi, B., Yassa, M.A. (2022) Associations of pulse pressure with Alzheimer's disease-related imaging markers and memory in adults with Down syndrome. Talk presented at the Alzheimer's Biomarkers Consortium – Down Syndrome (ABC-DS) Annual Meeting, Long Beach, CA.
183. Gattas, S., Barbosa, D., Le, A., Kaboodvand, N., Lynch, G., Yassa, M.A., Parvizi, J., Buch, V. (2022) Using System Identification to Characterize Neural Circuits for Design of Adaptive Neurostimulation. Congress of Neurological Surgeons. San Francisco, CA.
184. Rizvi, B., Sathishkumar, M., Larson, M.S., Tustison, N., McMillan, L., Greenia, D., Corrada, M.M., Kawas, C., Yassa, M.A. (2022) The effect of age on mnemonic discrimination is fully mediated by

posterior cerebral artery-defined white matter hyperintensities. Abstract and poster presentation at the Alzheimer's Association International Conference.

185. Adams, J.N., Chappel-Farley, M.G., Yaros, J.L., Tayler, L., Harris, A.L., Mikhail, A., McMillan, L., Keator, D.B., Yassa, M.A. (2022) Functional network modularity and efficiency supports episodic memory in older adults with amyloid beta pathology. Abstract and poster presentation at the Alzheimer's Association International Conference.
186. Kim, S., Chappel-Farley, M., Keator, D., Janecek, J., McMillan, L., Miranda, B., Mikhail, A., Yassa, M.A. (2022) Examining the diagnostic utility of the mnemonic discrimination task for classification of cognition and amyloid-beta burden. Abstract and poster presentation at the Alzheimer's Association International Conference.
187. DiProspero, N., Sathishkumar, M., McMillan, L., Keator, D.B., Doran, E., Hom, C., Nguyen, D., Rosas, H.D., Lai, F., Brickman, A.M., Schupf, N., Silverman, W., Lott, I.T., Yassa, M.A. (2022) Default mode network and medial temporal lobe functional changes with Alzheimer's disease severity and cognitive impairment in individuals with Down syndrome. Abstract and poster presentation at the Alzheimer's Association International Conference.
188. Leonard, B.T., Granger, S.J., Adams, J., McMillan, L., Yassa, M.A. (2023) Anhedonia is associated with increased paraventricular nucleus of thalamus to nucleus accumbens resting-state functional connectivity. American College of Neuropsychopharmacology.
189. Zhang, H., Skelin, I., Ma, S., Paff, M., Yassa, M.A., Knight, R.T., Lin, J. (2022) Awake ripples enhance emotional memory encoding in the human brain. Abstract and poster presentation at the Society for Neuroscience Meeting.
190. Leonard, B.T., Gordi, E., Small, S.L., Sandman, C., Stern, H., Baram, T.Z., Glynn, L., Yassa, M.A., Davis, E. (2022) Unpredictable sensory signals during early development and resting state connectivity of the paraventricular nucleus of the thalamus. Abstract and poster presentation at the Society for Neuroscience Meeting.
191. Taylor, L., Sathishkumar, M., McMillan, L., Head, E., Doran, E., Mapstone, M., Lott, I., Silverman, W., Yassa, M.A., Nguyen, D., Keator, D., Poline, J.B., Tudorascu, D., Price, J., Pulsifer, M., Lai, F., Rosas, H.D., Brickman, A., Kreisl, W., Schupf, N., Lao, P. (2022) Longitudinal amyloid, tau, and neurodegeneration in Braak staging in Down syndrome. Abstract and poster presentation at the Society for Neuroscience Meeting.
192. Queder, N., Keator, D.B., McMillan, L., Sathishkumar, M., Taylor, L., Doran, E., Nguyen, D., Hom, C., Price, J., Rosas, H.D., Lao, P.J., Brickman, A., Schupf, N., Silverman, W., Lott, I., Head, E., Mapstone, M., Yassa, M.A. (2022) Association between regional tau accumulation and memory performance in adults with Down syndrome. Abstract and poster presentation at the Society for Neuroscience Meeting.
193. Adams, J.N., Kark, S.M., Stith, L., Chappel-Farley, M.G., Yassa, M.A. (2022) Dynamic brain states are disrupted by aging and Alzheimer's disease. Nanosymposium talk at the Society for Neuroscience Meeting.
194. Chappel-Farley, M.G., Adams, J.N., Betzel, R.F., Berisha, D.E., Dave, A., Lui, K.K., Neikrug, A.B., Benca, R.M., Yassa, M.A., Mander, B.A. (2022) Greater resting-state functional network integration supports successful mnemonic discrimination following sleep. Abstract and poster presentation at the Society for Neuroscience Meeting.
195. Kim, S., Sbeini, B., Adams, J.N., Taylor, L., Harris, A., Mikhail, A., McMillan, L., Yassa, M.A. (2022) Cerebellar-cortical functional connectivity and mnemonic discrimination in preclinical Alzheimer's disease. Abstract and poster presentation at the Society for Neuroscience Meeting.
196. Chwiesko, C., Kim, S., Adams, A., Rizvi, B., Liu, L., McMillan, L., Yassa, M.A. (2022) Cerebrovascular reactivity in the hippocampus predicts mnemonic discrimination performance. Abstract and poster presentation at the Society for Neuroscience Meeting.
197. Noarbe, B.P., Wendel, K.M., Short, A.K., Baram, T.Z., Yassa, M.A., Obenaus, A. (2022) Early life adversity in mice alters structural connectivity within the cingulum that is associated with changes in social behavior. Abstract and poster presentation at the Society for Neuroscience Meeting.
198. Berisha, D.E., Rizvi, B., Chappel-Farley, M., Chen, I.Y., Sattari, N., Dave, A., Vinces, K., Meza, N.J., Lui, K.K., Neikrug, A.B., Benca, R.M., Yassa, M.A., Mander, B.A. (2022) Obstructive sleep apnea and cerebrovascular pathology in older adults. Abstract and poster presentation at the Society for Neuroscience Meeting. Datablitz presented at the Sleep and Circadian Neuroscience SfN Social.

199. Leonard, B.T., Granger, S.J., Adams, J., McMillan, L., Yassa, M.A. (2023) Anhedonia is associated with increased paraventricular nucleus of thalamus to nucleus accumbens resting-state functional connectivity. Park City Winter Conference on the Neurobiology of Learning and Memory.
200. Stout, D., Harhen, N.C., Bornstein, A.M., Vinograd, M., Spadoni, A., Simmons, A.N., Yassa, M.A., Davis, E.P., Glynn, L.M., Baram, T.Z., Baker, D., Risbrough, V.B. (2023). Unpredictable early-life experiences moderate the effect of anhedonia and PTSD on neural measures of reward learning in adulthood. Anxiety and Depression Association of America Annual Conference.
201. Berisha, D.E., Rizvi, B., Chappel-Farley, M., Chen, I.Y., Sattari, N., Dave, A., Vinces, K., Meza, N.J., Lui, K.K., Neikrug, A.B., Benca, R.M., Yassa, M.A., Mander, B.A. (2023). Sleep apnea-related hypoxemia, not sleep fragmentation, are associated with white matter hyperintensities in older adults. Accepted to Advances in Sleep and Circadian Neuroscience Conference.
202. Chappel-Farley, M.G., Adams, J.A., Dave, A., Lui, K.K., Chen, I.Y., Berisha, D., Sattari Barabardi, N., Janecek, J., Neikrug, A., Benca, R.M., Yassa, M.A., Mander, B. (2023) A graph theoretical approach to study sleep-dependent memory consolidation in older adults. Accepted to Advances in Sleep and Circadian Neuroscience Conference.

INVITED SCIENTIFIC TALKS

1. Division of Medical Psychology, Johns Hopkins School of Medicine, Baltimore, MD, June 2003.
2. Johns Hopkins School of Medicine, Baltimore, MD, September 2004.
3. Johns Hopkins School of Public Health, Baltimore, MD, October 2004.
4. Cognitive Lunch, Johns Hopkins University, Baltimore, MD, February 2006.
5. Introduction to Psychology Class, Johns Hopkins University, Baltimore, MD, March 2006.
6. Biopsychology Proseminar, Johns Hopkins University, Baltimore, MD, April 2006.
7. Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD, May 2006.
8. Psychology Seminar, Johns Hopkins University, Baltimore, MD, February 2007.
9. Cognitive Lunch, Johns Hopkins University, Baltimore, MD, October 2007.
10. Introduction to Psychology, Johns Hopkins University, Baltimore, MD, December 2007.
11. Neurobiology of Memory Seminar, UC Irvine, CA, October 2008.
12. National Science Foundation GK-12 Program Workshop, Irvine, CA, January 2009.
13. Careers in Psychology Class, Irvine Valley College, Irvine, CA, March 2009.
14. Neurobiology and Behavior, UC Irvine, CA, April 2009.
15. Irvine Valley College Research Conference Keynote Talk, Irvine, CA, May 2009.
16. Neurobiology of Memory Seminar, UC Irvine, CA, September 2009.
17. Neuro Blitz Seminar Series, UC Irvine, CA, November 2009.
18. Scientific colloquium, Johns Hopkins Psychological and Brain Sciences, Baltimore, MD
19. Careers in Psychology Class, Irvine Valley College, Irvine, CA, March 2010.
20. Institute for Clinical and Translational Research, UC Irvine, CA, April 2010.
21. Minorities in Research Careers, California State University, Fullerton, CA, May 2010.
22. Center for Neurobiology of Learning and Memory, UC Irvine, CA, May 2010.
23. Center for Imaging Science, Johns Hopkins University, Baltimore, MD, February 2011.
24. Johns Hopkins School of Medicine, Baltimore, MD, February 2011.
25. Aging and Cognition Conference, University of Texas, Dallas, TX, March 2011.
26. Division of Geriatric Psychiatry, Johns Hopkins Medicine, Baltimore, MD, April 2011.
27. Workshop on Diffusion Tensor Imaging, UC San Francisco, CA, May 2011.
28. Dementia Consortium, Johns Hopkins Medicine, Baltimore, MD, June 2011.
29. Neuroradiology Department, University of Pennsylvania, Philadelphia, PA, June 2011.
30. Biostatistics Department, Johns Hopkins Public Health, Baltimore, MD, October 2011.
31. Siemens Corporate Research, Princeton, NJ, December 2012.
32. Winter Neurobiology of Learning and Memory Meeting, Park City, UT, January 2012.
33. National Institute on Aging, Intramural Research Program, Baltimore, MD, January 2012.
34. Johns Hopkins School of Medicine, Baltimore, MD, February 2012.

35. NeuroMem Symposium, CNRS/INSERM, Cargèse, Corsica, France, March 2012.
36. Psychology Department, Alamance College, Graham, NC, March 2012.
37. Memory and Aging Center, University of California, San Francisco, CA, June 2012.
38. Center for Imaging of Neurodegenerative Diseases, San Francisco, CA, June 2012.
39. Department of Psychology, University of California, Berkeley, CA, June 2012.
40. Department of Psychology, Stanford University, Stanford, CA, June 2012.
41. Center for Mind and Brain, University of California, Davis, CA, June 2012.
42. Johns Hopkins School of Medicine, Baltimore, MD, February 2013.
43. Mind/Brain Institute, Johns Hopkins University, Baltimore, MD, September 2013.
44. Director's Research Circle, Center for Vital Longevity, UT Dallas, TX, November 2013.
45. Center for Vital Longevity, University of Texas, Dallas, TX, November 2013.
46. Symposium, European Brain and Behavior Society, Munich, Germany, September 2013
47. Symposium, International Neuropsychological Society, Waikoloa, HI, September 2013.
48. Johns Hopkins University Advisory Board, Baltimore, MD, October 2013.
49. Faculty Spotlight, JHU Homewood Parents Council, Baltimore, MD, November 2013.
50. Symposium, Park City Learning and Memory Meeting, Park City, UT, January 2014.
51. Eugene Williams Endowed Lecture, St. Luke's Hospital, Chesterfield, MO, March 2014.
52. Center for Hearing Research, University of California, Irvine, April 2014.
53. TEDx UCIrvine (an independently organized TED event), UC Irvine, May 2014.
54. Symposium, Southern California Learning and Memory Symposium, UCLA, June 2014.
55. Silvio O. Conte Center, University of California, Irvine, July 2014.
56. Faculty of Health Sciences, University of Tsukuba, Japan, August 2014.
57. Southern California Alzheimer's Disease Conference, Costa Mesa, CA, September 2014.
58. Grand Rounds in Psychiatry, UT Southwestern, Dallas, TX, September 2014.
59. Center for Talented Youth, Johns Hopkins University, Baltimore, MD, September 2014.
60. Mini-symposium, Society for Neuroscience, Washington, DC, November 2014.
61. Dept of Psychology and Brain Sciences, University of Louisville, KY, December 2014.
62. Winter Neurobiology of Learning and Memory Meeting, Park City, UT, January 2015.
63. Alzheimer's Disease Research Forum, UCLA, Los Angeles, CA, February 2015.
64. 12th Congress of Brain Mapping and Therapeutics, Los Angeles, CA, March 2015.
65. Keynote, Global Initiative for Sports Neuroscience, Tsukuba, Japan, March 2015.
66. Department of Psychology, UC Riverside, Riverside, CA, March 2015.
67. Symposium, Cognitive Neuroscience Society, San Francisco, CA, March 2015.
68. Colloquium, Department of Psychology and Social Behavior, UC Irvine, CA, April 2015.
69. Allergan Symposium, Irvine, CA, April 2015
70. Neurology Grand Rounds, UC Irvine School of Medicine, Orange, CA, May 2015
71. Colloquium, Cognitive Neural Systems Seminar, UC San Diego, CA, May 2015
72. Spring Hippocampal Research Conference, Taormina, Sicily, June 2015
73. Temporal Dynamics of Learning Center, UC San Diego, CA, July 2015
74. Neurology, Memory and Aging Center, UC San Francisco, CA, July 2015
75. National Primate Research Center, University of Washington, Seattle, WA, August 2015.
76. Department of Psychiatry, UT Southwestern Medical Center, Dallas, TX, August 2015.
77. Memory Disorders Research Society Meeting, Cambridge, UK, September 2015
78. DZNE, Magdeburg, Germany, September 2015
79. Maastricht University Research Day, Maastricht, The Netherlands, October 2015
80. Martinos Center Brain Mapping Lecture, Harvard University/MGH, October 2015
81. Department of Psychology, Boston College, October 2015
82. Center for Mind and Brain, Boston University, October 2015
83. Center for Mind and Brain, University of Maryland, College Park, November 2015
84. Kavli Institute for Systems Neuroscience, NTNU, Trondheim, Norway, December 2015
85. Winter Neurobiology of Learning and Memory Conference, Park City, UT, January 2016
86. Department of Psychology, University of Arizona, Tucson, AZ, January 2016
87. Winter Conference on Neural Plasticity, Maui, HI, February 2016
88. Brain Mapping Colloquium, ICTS, University of California, Irvine, CA, February 2016

89. Center for the Neurobiology of Learning and Memory, UC Irvine, CA, February 2016
90. Department of Pharmacological Sciences, UC Irvine, Irvine, CA, March 2016
91. School of Gerontology, University of Southern California, Los Angeles, CA March 2016
92. Psychiatry and Neurology, Columbia University, New York, NY, March 2016
93. University of Alabama, Birmingham, AL, April 2016
94. Leibniz Institute for Neurobiology, Germany, May 2016
95. Pfizer, Inc., Cambridge MA, July 2016
96. Rotman Research Institute, University of Toronto, Toronto ON, July 2016
97. Minority Science Program, University of California, Irvine, August 2016
98. Keynote address, National Academy of Neuropsychology, Seattle, WA, October 2016
99. Winter Neurobiology of Learning and Memory Meeting, Park City, UT, January 2017
100. University of Tsukuba, Ibaraki, Japan, February 2017
101. Quad-L Early Career Award Presentation, UNM Albuquerque, NM, May 2017
102. Keynote, Florida Consortium on the Neural Basic of Cognition, Gainesville, FL, May 2017
103. Symposium talk, Spring Hippocampal Research Conference, Taormina, Sicily, June 2017
104. Nathan S. Kline Institute. New York University, New York, June 2017
105. Roberts Academy, City of Hope Hospital, Los Angeles, CA, July 2017
106. Grand Rounds, Psychiatry and Human Behavior, UC Irvine, CA, August 2017
107. Neurolunch series, Neurobiology and Behavior, UC Irvine, Irvine, CA, August 2017
108. Department of Psychology, Georgetown University, Washington, DC, August 2017
109. Department of Psychology, Wayne State University, Detroit, MI, September 2017
110. Careers in Psychology Class, Irvine Valley College, Irvine, CA, September 2017.
111. Memory Disorders Research Society Annual Conference, Chicago, IL, September 2017
112. Alzheimer's Disease in Down syndrome NIH Conference, Bethesda, MD, September 2017
113. Science of Acting Class, University of California, Irvine, November 2017
114. Conte Center on Adolescent Vulnerabilities, UC Irvine, CA, November 2017
115. Neurocampus: Early Signs of Cognitive Decline, Strasbourg, France, December 2017
116. Department of Psychology, Rutgers University, Newark, NJ, December 2017
117. Department of Psychology, Georgetown University, Washington, DC, December 2017
118. Research and Development Team, MeriCal, Anaheim, CA, December 2017
119. Young Investigator Lecture, Cognitive Neuroscience Society, Boston, MA, February, 2018
120. Functional Architecture of Memory meeting, Magdeburg, Germany, May 2018
121. Global Initiative on Sports Neuroscience, Osaka, Japan, August 2018
122. Bordeaux Neurocampus: Aging of Memory Functions, Bordeaux, France, September 2018
123. Psychology and Neuroscience, Brandeis University, Waltham, MA, October 2018
124. Memory Disorders Research Society, Toronto, Canada, October 2018
125. BrightFocus Foundation Alzheimer's Fast Track Course, San Diego, November 2018
126. Laboratory for NeuroImaging, University of Southern California, November 2018
127. Eliot Stellar Lecture in Neuroscience, University of Pennsylvania, December 2018
128. Invited Symposium. Cognitive Neuroscience Society, April 2019
129. Engineering Human Potential Course, University California, Irvine, May 2019
130. Statistical Methods in Imaging Conference, University of California, Irvine, June 2019
131. Department of Neurology, Northwestern University, August 2019
132. Institute for Mathematical and Behavioral Sciences, University of California, Irvine, Jan 2020
133. Engineering Human Potential Course, University of California, Irvine, May 2020
134. Southern California Artificial Intelligence in Biomedicine Symposium, September 2020
135. Brain Mapping Center, University of California, Los Angeles, November 2020
136. Alzheimer's Biomarkers Consortium – Down Syndrome Annual Meeting, November 2020
137. Conte Center External Advisory Board Meeting – University of California, Irvine, March 2021
138. Seminar Outreach for Minority Advocacy (SOMA) – University of California, Davis, April 2021
139. Department of Neurology Grand Rounds – University of California, Irvine, April 2021
140. ADNI Private Partners Scientific Board – Clinical Endpoints Working Group, May 2021
141. Improving Clinical Endpoints in AD Clinical Trials – Cognito, Inc., May 2021
142. Symposium at Trisomy 21 Research Society Annual Conference – Virtual, June 2021

143. Keynote, Virtual CNLM Summer Research Symposium, August 2021
144. Harley Hotchkiss Memorial Lecture, University of Lethbridge, September 2011
145. Invited talk and Q&A session on Why our Brains Love Story, The Garden, October 2011
146. Cognitive Neuroscience Seminar Series, University of Texas at Austin, November 2021
147. Panel at American College of Neuropsychopharmacology (ACNP), Puerto Rico, December 2021
148. Cognition and Cognitive Neuroscience Area Forum, University of Michigan, January 2022
149. Hippocampus Symposium, St. Jude's Children's Research Hospital, February 2022
150. Invited Symposium talk, Association for Psychological Science Annual Conference, May 2022
151. Max Planck/ University of Toronto Centre for Neural Science and Technology, July 2022
152. Conte Center Monthly Meeting Science talk and discussion, September 2022
153. Invited talk, Center for Reproducible Neuroimaging Computation (ReproNim), November 2022
154. Invited talk, Department of Brain and Cognitive Sciences, Seoul National Univ., November 2022
155. Invited talk, Autonomy Capability Team (ATC3), The Airforce Research Laboratory, March 2023
156. Invited talk, University of Washington Neuroscience Seminar Series, April 2023
157. Keynote, Diversity in Immunology & Neuroscience Symposium, University of Virginia, June 2023
158. Invited talk, Summer Institute in Neuroscience, University of California, Irvine, June 2023

POPULAR PRESS AND MEDIA

1. "Alzheimer's or just a senior moment?" Orange County Register, 2010
2. "UC Irvine scientists discover pathway to brain's memory storage*", 89.3 KPCC, 2010*
3. "Distinguishing senior moments from Alzheimer's", UC Irvine Today, 2010
4. "Forgetting of things past", Johns Hopkins Magazine, 2011
5. "Thanks for the memories", Johns Hopkins Arts and Sciences Magazine, 2011
6. "Applying brain science to the art of marketing", Radio & TV Business Report, 2011
7. "Forget about it! Your memory and aging", Discoveries & Breakthroughs, 2011
8. "Studio Interview on "Maryland Morning with Sheilah Kast", 88.1 WYPR (NPR), 2011
9. "A memory tonic for the aging brain", The New York Times, 2011
10. "As brain pathways deteriorate, so does our memory", SmartPlanet 2011
11. "Aging brains have trouble remembering information", US News & World Report, 2011
12. "As times goes by, it gets tougher to 'just remember this'", JHU Gazette, 2011
13. "Reducing specific brain activity may slow memory loss", Psych Central 2012
14. "Reducing brain activity aids memory after cognitive decline", JHU Gazette 2012
15. "Epilepsy drug calms the hippocampus, aids memory", AlzForum 2012
16. "Important new theory explains where old memories go", Scientific American, 2013
17. "Caffeine consumption enhances memory, UCI neurobiologist finds", UCI News 2014
18. "Caffeine has positive effects on memory, Hopkins researchers say", JHU News 2014
19. Live interview with BBC World News Television, 2014
20. Interview on "Maryland Morning with Sheilah Kast", 88.1 WYPR (NPR), 2014
21. "Caffeine boosts memory, Johns Hopkins Researchers say", ABC News, 2014
22. "One cup of joe and your brain is ready to go!", PBS Newshour, 2014
23. "Two espressos enhance your long term memory", Gizmodo, 2014
24. "Caffeine stirs memory: study", Business Standard, 2014
25. "Caffeine and memory", NBC News, 2014
26. "Researchers confirm caffeine improves memory", Fox News, 2014
27. "Caffeine jolt may boost how memories are processed", CBS News, 2014
28. "Caffeine consumption can help your memory", CW Network, 2014
29. "A little caffeine can boost your memory: study shows", CTV News, Canada, 2014
30. "Study shows how caffeine can affect your memory", WBAL Radio, 2014
31. "Caffeine might improve long-term memory", Voice of America, 2014
32. "Coffee boosts memory retention study says", CBC News, Canada, 2014
33. "Caffeine and memory", KFBK Sacramento, 2014

34. “Caffeine boosts memory”, Nathan Sterner – WYPR (NPR), 2014
35. “Caffeine can boost memory function”, ABC News, Australia, 2014
36. “Caffeine could help boost memory”, SBS Radio, Australia, 2014
37. “Caffeine pill ‘could boost memory’”, BBC News, 2014
38. “Coffee lovers perk up – caffeine may help boost memory”, USA Today, 2014
39. “Coffee as a memory booster”, The New York Times, 2014
40. “Caffeine can help jolt your memory”, Los Angeles Times, 2014
41. “Feeling forgetful? Have a cuppa coffee”, National Geographic Magazine, 2014
42. “Caffeine can help strengthen memory function”, The Washington Post, 2014
43. “Should you drink coffee before or after a learning task”, Scientific American, 2014
44. “Caffeine may improve memory”, TIME Magazine, 2014
45. “Drink two espressos to enhance long-term memory”, New Scientist, 2014
46. “Coffee may boost brain’s ability to store long term memories”, The Guardian, 2014
47. “Study: Caffeine can improve memory”, The Atlantic, 2014
48. “How a little caffeine can boost your memory”, Forbes Magazine, 2014
49. “Caffeine may help you forget less, study finds”, Los Angeles Times, 2014
50. “Caffeine may enhance memory”, Huffington Post, 2014
51. “Coffee enhances long-term memory retention”, WIRED UK, 2014
52. “Your daily coffee might just jolt your memory”, WebMD, 2014
53. “Can a cuppa joe improve your memory?”, Psychology Today, 2014
54. “Caffeine’s little memory jolt garners a lot of excitement”, Science News, 2014
55. “That cup of morning joe could sharpen memory”, Orange County Register, 2014
56. “Jolting our memories with caffeine” The Osgood File, CBS News Radio, 2014
57. “What was that? Ways to make memories last” NOW Magazine, 2014
58. “Easy way to ward off memory blips” First for Women, 2014
59. “Myth or Science” Episode of The Nature of Things, broadcast on CBC TV, 2014
60. “UCI study finds that learning by repetition impairs recall of details” UCI News, 2014
61. “Study finds tote memorization makes you forget details” AirTalk – SCPR (NPR), 2014
62. “Rote memorization creates weakness, UC Irvine study says” – KPCC 89.3 (NPR), 2014
63. “Op-Ed: Repetitive learning downside – losing details in memory” Digital Journal, 2014
64. “Repetitive learning has its shortcomings” PsychCentral, 2014
65. “Learning by repetition impairs recall of details, study shows” ScienceDaily, 2014
66. “Repetition might not be the key to learning” Orange County Register, 2014
67. “Learning by repetition may hamper recalling abilities” Headlines & Global News 2014
68. “Study: practice doesn’t always make perfect” The Atlantic, 2014
69. “Repeated memorization can lead to false memories, study says” NBC News 2014
70. “Less than total recall” Orange County Register, 2014
71. “Your memory isn’t perfect and repetition may make it worse” Quartz 2014
72. “Study finds learning by repetition impairs recall of details” Neuroscience News, 2014
73. “Repetition doesn’t work: better ways to train your memory” The Daily Beast, 2014
74. “The future of Alzheimer’s Disease Research” Interview for KUCI Radio 2014
75. “Selective retention of positive information marker for memory loss”, UCI News 2016
76. “Selective memory may portend Memory loss in old age”, PsychCentral, 2016
77. “Study links ‘Positivity Effect’ with memory impairment”, Psychiatry Advisor, 2016
78. “Total Recall”, Better Homes and Gardens, 2016
79. “6 physical symptoms that mean you're drinking too much coffee”, Prevention.com, 20167
80. “7 ways to protect your brain against aging”, Good Housekeeping (UK), 2016
81. “6 signs you’re drinking way too much coffee”, Women’s Health, 2016
82. “Caffeine may boost brain health in women,” Yahoo! Beauty, 2016
83. “Train your brain”. Mindfood magazine, 2016
84. Interview with the Wall Street Journal’s MarketWatch, 2016
85. Interview with Alzforum on epigenetic PET tracer and application to Alzheimer’s, 2016
86. “How does our brain process fear? Study investigates,” Medical News Daily, 2017
87. “What horror movies tell us about our brains,” MSN, 2017

88. “Horror movies help identify brain circuits for processing fear,” Business Standard, 2017
89. “Scary movies help UCI researchers identify brain circuits for fear,” UCI News, 2017
90. Interview with BBC Canada on highly superior autobiographical memory, 2017
91. Interview with TBS eFM Seoul, South Korea on caffeine and the brain, 2017
92. Interview with KUCI on traumatic brain injury, exercise, and brain health, 2017
93. Interview with The Scientist on highly superior autobiographical memory, 2017
94. Filmed documentary on memory, NHK, Japanese public television, 2017
95. National Geographic program on highly superior autobiographical memory, 2017
96. Canadian Broadcast TV, The Nature of Things on autobiographical memory, 2017
97. “UCI neurobiologists aim to identify biomarkers for Alzheimer’s”, UCI News, 2017
98. Filmed documentary on super recognizers, NHK, Japanese public television, 2017
99. “Scientific acting: Course explores role of neurobiology in arts”, UCI News, 2017
100. “How UC Irvine is combining acting and brain science”, OC Register, 2017
101. “Brain imaging provides clues about memory loss in older adults”, Cell Press, 2018
102. Interview with Jeff Green on memory adaptation, Bloomberg News 2018
103. Interview with Jean-Baptiste Veyrieras on forgetting, Science et Vie magazine, 2018
104. Interview with Lisa Bain on traumatic memories, The Good Life, Hearst, 2018
105. “Some foods are better for your memory” CNN News, 2018
106. “What caffeine does to your body and brain” Business Insider, 2018
107. “Lutter contre Alzheimer avec une tasse de café” The Conversation, 2018
108. Interview with Jack Dutton, The British Psychological Society, 2018
109. “What are the best ways to improve your memory according to Science” Forbes 2018
110. “Scientists Reveal How Much Exercise You Need for a Better Memory” Inverse.com 2018
111. “Ten minutes of exercise a day improves memory” MSN 2018
112. “Even mild physical activity can boost memory” PsychCentral 2018
113. “Ten minutes of exercise a day improves memory” The Guardian 2018
114. Exercise study featured in NIH Director Francis’ Collins Blog, 2018
115. “Even a ten-minute walk might be good for the brain” The New York Times, 2018
116. Interview about the aging brain and healthy lifestyle, Laguna Woods TV, 2018
117. “Curb Your Enthusiasm' helps study brain's sense of time”, UPI News, 2019
118. “UCI study on how brains mark time may aid dementia research”, LATimes, 2019
119. “Researchers discover neural patterns key to understanding PTSD”, UCI News 2019
120. “A Prescription for Exercise”, Feature Article, UCI Magazine and UCI News 2019
121. Interview with German magazine “Ärzteblatt”, on the effect of exercise on the brain, 2019
122. “Is light-intensity exercise enough to benefit the brain? Yes!” Mind Over Matter, 2019
123. “Unlocking Secrets of Memory and Time in the Brain” Wall Street Journal, 2019
124. “Exploring Humanity’s Final Frontiers” UCI News, 2019
125. “UCI Brings Top Minds Together for Brain Research” Orange County Business Journal, 2020
126. “Working Memory” Interview on The Pulse, WHYY PBS National Public Radio, 2020
127. “How Time is Encoded in Memories”, The Scientist, 2020
128. “The Case for Caffeine,” The Epoch Times, 2020
129. “Did You Forget Something During Lockdown?” The Wall Street Journal, 2020
130. “Have coronavirus lockdowns made us more forgetful?” Dailymail UK, 2020
131. “NIH awards $100M to examine biomarkers of Alzheimer’s in Down syndrome”, UCI News, 2020
132. “When our minds play tricks on us” DW Documentary – German TV, 2021
133. “A fun way to keep your memory sharp” Elemental, Medium.com, 2021
134. “Late-Stage Pandemic is Messing with Your Brain” Story by Ellen Cushing, The Atlantic, 2021
135. Interview, “Pandemic effects on the brain”, The John Oakley Show, Global News Radio 640, 2021
136. Interview, “Pandemic year”, The Geoff Lloyd Show, BBC Radio 5 Live, 2021
137. Interview, “Reflecting on the Pandemic” On Point with Meghna Chakrabarti, WBUR NPR, 2021
138. “We Have All Hit a Wall” Article by Sarah Lyall, The New York Times, 2021
139. “Speaking of Psychology: HSAM” American Psychological Assoc. Podcast with Kim Mills, 2021
140. “I have ‘pandemic brain’. Will I ever be able to concentrate again?” The Guardian, 2021
141. “Is pandemic brain real?” Interview with BBC Worldwide News, 2021

142. Episode of “Delving In” with Stuart Kelter, KTAL101.5 FM, 2021
143. “Minimal effort required: A ten-minute run can boost brain processing”, ScienceDaily, 2021
144. “Study Shows That Mild Physical Activity Can Improve Brain Function” OneGreenPlanet, 2021
145. “Secret Side Effects of Walking Just 30 Minutes Per Day, Says Science” Eat This Not That!, 2021
146. “Boosting the Brain’s Brakes to Beat Memory Loss” Simons Foundation, 2021
147. National Geographic Special Issue on Memory highlighting Yassa’s research, 2021
148. Interview on pandemic stress effects on the brain. KCRW National Public Radio, 2022
149. “What Memories are Made of” CNN Chasing Life with Dr. Sanjay Gupta, podcast episode, 2022
150. “It's not just you -- we are all more forgetful during the pandemic” CNN Health, 2022
151. “What can Wordle Do for our Brain?” WebMD, 2022
152. “UCI poised to advance depression research following $55-million gift”, LA Times, 2022
153. “How to live longer: The exercise shown to 'immediately improve' memory”, Express UK, 2022
154. Interview on depression research, Get the Funk Out! Podcast by Jeanine Bernstein, KUCI, 2022
155. “Beyond Brain Fog: What the Pandemic has Done to our Memory”, Katie Couric Media, 2022
156. “The #1 Thing You Can Do to Lower Your Dementia Risk”, Eat this, Not that!, 2022
157. “Three unique ways you can remember the past”, Discover Magazine, 2022
158. Interview on the impact of social determinants of health on Alzheimer’s, NeurologyLive, 2023
159. “Addressing disparities in Alzheimer’s disease research”, UCI News, 2023

PUBLIC OUTREACH

1. NSF Workshop for K-12 teachers on neuroscience and education, Irvine, CA, 2009
2. Dean’s dinner series for undergraduates, Johns Hopkins University, 2010
3. Lecture on Alzheimer’s disease, Action in Maturity Center, Baltimore, MD, 2011
4. Alzheimer’s Q&A Session, Bethel AME Church, Chesapeake City, MD, 2011
5. Senior Health Fair (particular focus on Alzheimer’s), Chesapeake City, MD, 2011
6. Alzheimer’s Q&A Session, St. Mark’s Lutheran Church, Baltimore, MD, 2012
7. Alzheimer’s Q&A Session, Church of the Resurrection, Lutherville, MD, 2012
8. Lecture on Successful Aging, Fairhaven Memorial Park, Mission Viejo, CA, 2014
9. Lecture on Successful Aging, UCI MIND Matters Club, Costa Mesa, CA, 2014
10. Webinar for JHU’s Center for Talented Youth (Cogito.org), Baltimore, MD, 2014
11. Lecture on mental disorders, UCI “Diversity in Medicine” Course, Irvine, CA, 2015
12. Ask the Doctor – Alzheimer’s Health Forum, Buena Park, CA, February 2015
13. UCI MIND Behind the Scenes Tour, Irvine, CA, May 2015
14. Ask the Doctor – Alzheimer’s Forum, Walnut Village, Anaheim, June 2015
15. Lecture on Alzheimer’s disease research, Beckman Scholars Foundation, August 2015
16. California Institute for Regenerative Medicine Career Panel, August 2015
17. Lecture on Alzheimer’s disease research, Northrop Grumman, November 2015
18. Lecture on Brain Science and impact on Society, UCI Town and Gown, November 2015
19. Evenings to Remember Series, CNLM, UC Irvine, February 2016
20. Ask the Doctor – Alzheimer’s Health Forum, Alzheimer’s Orange County, March 2016
21. Lecture on Successful Aging, Lakeview Senior Center, Newport Beach, CA, August 2016
22. Ask the Doctor – Alzheimer’s Health Forum, The Covington, November 2016
23. Panelist, Postdoc forum – How to start a research laboratory, UC Irvine, February 2016
24. Lecture on Mood Disorders - Reclaim Mental Health, UC Irvine, CA, May 2017
25. Brain demo and exhibit – Reclaim Mental Health, UC Irvine, May 2017
26. Lecture on Brain Science, Lakeview Senior Center, Irvine, CA, May 2017
27. Q&A, Scientific American Review Club, Laguna Beach Senior Center, August 2017
28. Lecture to OC Psychological Association on memory, aging and mood, January 2018
29. Lecture to the Chancellor’s Club on advances in brain science, UC Irvine, January 2018
30. Lecture to Aging 2.0, Orange County Chapter, on the aging brain, Calit2 UC January 2018
31. Lecture at UCI Homecoming on advances in brain science, UC Irvine, March 2018

32. Ask the Doctor – Alzheimer's Health Forum, OC Senior Day, March 2018
33. Edwards Public Lecture, University of Washington, Seattle, WA, May 2018
34. Brain demo and exhibit – Reclaim Mental Health, UC Irvine, May 2018
35. Lecture on Mental Illness and Stigma - Reclaim Mental Health, UC Irvine, CA, May 2018
36. Invited Lecture at "Great Minds" series - UCI Board of Trustees, Irvine, CA, Sep 2018
37. Invited Lecture for the UCI Chapter of the Honor Society for Neuroscience, February 2019
38. Lecture on Brain Science, Lakeview Senior Center, Irvine, CA, July 2019
39. Lecture on Brain Imaging Methods for UCI Brain Camp, August 2019
40. Lecture on Maternal Grief, Healing Hearts Gathering, August 2019
41. Workshop on Maintaining Mental Health During COVID-19 Crisis, April 2020
42. Lecture on Child Loss, Grief, and the Brain, May 2020
43. Lecture on Mental Health During COVID-19 Crisis, May 2020
44. Workshop and Q&A on Mental Health During COVID-19 Crisis, Reclaim Mental health, May 2020
45. Lecture on Perception and Memory, Osher Lifelong Learning Institute, August 2020
46. Lecture on Memory, Lamorinda Sunrise Rotary Club, August 2020
47. Lecture to the Southern California Youth Neuroscience Association (SCYNA), Oct 2020
48. Workshop on Destigmatizing Mental Illness for Connect OC: Mental Health Conference, Dec 2020
49. Co-Host: Compassion: A Brain Dialogue (4C the Future Virtual Series), March 2021
50. Co-Host: Consciousness: A Brain Dialogue (4C the Future Virtual Series), April 2021
51. Panel: National Alliance on Mental Illness (NAMI) Orange County: Knowledge Forum, May 2021
52. Co-Host: Collective Memory: A Brain Dialogue (4C the Future Virtual Series), May 2021
53. Co-Host: Creativity: A Brain Dialogue (4C the Future Virtual Series), June 2021
54. Panel: Graduate School Admissions, NSF REU Summer Institute in Neuroscience, July 2021
55. Workshop on Developing the CV, NSF REU Summer Institute in Neuroscience, July 2021
56. Keynote Lecture on Memory and the Brain, UCI Brain Camp, July 2021
57. Lecture: Memory, Aging and Brain, Irvine Senior Services, August 2021
58. Lecture on Memory in Aging and Alzheimer's Disease: Anteater Family Weekend, Dec 2021
59. Speaker: Evenings to Remember, Center for the Neurobiology of Learning and Memory, Dec 2021
60. Host: Research update on grief, panel discussion and screening of *Forever Changed*, May 2022
61. Host: Career Planning for Trainees: An Informal Discussion, CNLM Spring Conference, May 2022
62. Host: Evenings to Remember public forum discussion with Dr. Sara Mednick, May 2022
63. Workshop on Grant Writing, GPS-STEM and Conte Center Junior Investigators, May 2022
64. Lecture on Memory and the Brain, NSF REU Summer Institute in Neuroscience May 2022
65. Workshop on Developing the CV, NSF REU Summer Institute in Neuroscience, July 2022
66. Lecture on Memory and the Brain, UCI Brain Camp, July 2022
67. Lecture on Aging and Dementia to AASC National Service Coordinator Conference, August 2022
68. Lecture on Memory, Aging and Dementia, Golden Futures Expo, Long Beach, December 2022
69. Panel and mentoring circles with ASUCI undergraduate students, January 2023
70. Lecture on Memory and the Brain, NSF REU Summer Institute in Neuroscience June 2023

DIVERSITY, EQUITY, AND INCLUSION ACTIVITIES

Memberships and Activities

2018 - 2019	Member, Committee on Diversity Statements, Provost Leadership Academy
2020 - 2023	Founding Member, JEDI Committee, Memory Disorders Research Society
2020 -	Founding Organizer and Steering Group Member, End Racism Initiative
2020 -	Appointed to the SEA Change Initiative Advisory Council, AAAS
2020 - 2021	Member, Advisory Board, Black Thriving Initiative, UCI Office of Inclusive Excellence Chair, Task Force on Inclusion in Undergraduate Student Research
2021-2022	Member and UCI Representative, STEMM Equity Achievement (SEA) Change Institute
2021 -	Member, Committee on Opportunities in Science (COOS), AAAS

2021- Liaison, Site Host and Facilitator, Culturally Aware Mentor (CAM) Training
2021- Reviewer, American Association for the Advancement of Science (AAAS) Mentor Awards
2021 - Member, Advisory Board, Black in Neuro
2021 - Member, Advisory Board, ALBA Network for Diversity and Equity in Brain Sciences
2022 - Member, Diversity and Inclusion Committee, Human Connectome Project Course
2023 - Member, Advisory Board, BRAINS Program at University of Washington

Invited Presentations

1. Host, Dismantling Systemic Racism in STEM: A #ShutDownSTEM Virtual Town Hall, June 2020
2. Host, Dismantling Systemic Racism: A Panel Summary and Town Hall Discussion, July 2020
3. Presentation to Cellular Molecular Biosciences (CMB) graduate program leadership, Nov 2020
4. Presentation to Interdepartmental Neuroscience Program (INP) leadership, Nov 2020
5. Presentation on DEI issues to Department of Ecology and Evolutionary Biology, Nov 2020
6. Co-host, Upstander Training, School of Biological Sciences, Nov 2020
7. Presentation on DEI issues to Department of Molecular Biology and Biochemistry, Nov 2020
8. Presentation on DEI issues to the GPS-STEM Advisory Board Meeting, Nov 2020
9. Host, Dismantling Systemic Racism Working Groups Launch, Dec 2020
10. Presentation to T32 Principal Investigator Council, UC Irvine, Dec 2020
11. Host, Dismantling Systemic Racism Working Group Leadership and Facilitation, Jan 2021
12. Presentation to prospective candidates for INP graduate program, Jan and Feb 2021
13. Host, Promoting Inclusion in the Student Experience (PROMISE) Symposium, Jan 2021
14. Host, Open Hour for Reflection on U.S. Capital Bombing, Jan 2021
15. Panelist, *Social Justice Speaker Panel*, Undergraduate Public Health Assoc, UC Irvine, Jan 2021
16. Speaker, *Anti-Blackness in Academia*, Bio Sci Student Council, UC Irvine, Feb 2021
17. Presentation on DEI issues to Department of Neurobiology and Behavior, Feb 2020
18. Presentation on Inclusion in Undergraduate Education at the Bio Sci Leadership Summit, Mar 2021
19. Presentation on DEI issues at the Dean's Leadership Council, Apr 2021
20. Panelist, The Souls of Black Folks – Diversity, Inclusion, and Advancement in STEM, May 2021
21. Presentation on DEI issues related to mentoring, GPS-STEM, November 2021
22. Workshop on DEI issues for Biological Sciences Graduate Program Recruitment, November 2021
23. Presentation on DEI issues in higher ed scholarship, Inclusive Excellence Forum, January 2022
24. Presentation to ADRC Research Education Component Scholars on DEI Issues, Jan & Feb 2022
25. Host, Screening of *White Like Me* documentary as part of Black History Month, February 2022
26. Guest/Mentor, *What a Scientist/Engineer Looks like*, Office of Inclusive Excellence, February 2022
27. Presentation on DEI Issues to the Health Research Alliance (HRA) Members Meeting, April 2022
28. Panelist, Symposium on Culturally Responsive Mentoring, University of Utah, April 2022
29. Panelist, Comparing Relevant Equity Advisor Tools to Empower Symposium, April 2022
30. Lecture on safe research environments, Responsible Conduct of Research Lecture, May 2022
31. Workshop on equity and inclusion in research training, MSTP Program, May 2022
32. Host, Dismantling Systemic Racism Town Hall Discussion on the Buffalo mass shooting, May 2022
33. Speaker, Journal club on DEI issues in research, TL1 and KL2 Trainees, ICTS at UCI, June 2022
34. Workshop on equity and inclusion in research training, INP/CMB Mol Neuro Program, Sep 2022
35. Workshop on inclusive lab environments, Medical Students Research Program, Sep 2022
36. Keynote Speaker, Inclusive Excellence Academy, University of California, Irvine, Sep 2022
37. Workshop on equity and inclusion, Course in Responsible Conduct of Research, UCI, Sep 2022
38. Faculty application and hiring, Panel by DECADE Program, UCI, Oct 2022
39. Host, Idea Tree Brainstorming Exercise, Joint T32 Programs in Neuroscience Retreat, Oct 2022
40. Keynote Speaker, Lecture on Inclusive Lab Environments, ALBA Network SfN Social, Nov 2022
41. Speaker, Implicit Bias and Racism in Academic Workplaces, LUNGevity Foundation, Jan 2023
42. Host, Documentary Film Screening of *The 1619 Project* and discussion, February 2023
43. Speaker, Challenging Bias and Fostering Inclusion, UCI Neurology Retreat, February 2023
44. Host, Culturally Aware Mentor (CAM) Training workshop by CIMER, March 2023

45. Host, Documentary Film Screening of *Picture a Scientist* and discussion, March 2023
46. Speaker, Comprehensive Wellbeing Initiative (CWI) DEI Pillar, UC Irvine, April 2023
47. Workshop on equity and inclusion, Course in Responsible Conduct of Research, UCI, June 2023
48. Career Panel, Neuroscience/Immunology Diversity Symposium, University of Virginia, June 2023

RESEARCH SUPPORT

Current Support

Assessing the role of cerebrovascular brain injury and dysfunction in Alzheimer's pathogenesis in the BEACoN Cohort
Principal Investigator, NIA R01AG053555 (Renewal) 1/1/23 - 12/31/27
The goal of this project is to establish the role of cerebrovascular injury and dysfunction (CVID) in the pathophysiology of preclinical AD and develop individualized imaging-based cerebrovascular profiles that predict memory decline across racially and ethnically diverse populations. We will develop a novel mechanistic framework for how CVID contributes to AD and memory/cognitive decline that directly addresses racial and ethnic disparities in AD risk. Cerebrovascular profiles, and their associated modifiable risk factors that confer the greatest risk of AD, will be identified as targets for future intervention.
Total Costs: $12,096,640

Testing a memory-based hypothesis for anhedonia
Principal Investigator, NIMH R01MH128306 1/1/23 - 12/31/27
We propose to test a memory-based account for anhedonia as part of our goal to biologically define the construct. The overall goal is to develop a comprehensive, mechanistic, and actionable memory-based account for anhedonia using new paradigms, computational models, high-resolution neuroimaging, as well as artificial intelligence approaches to develop novel interventions and improve clinical practice. MPI: J. Thayer.
Total Costs: $3,897,446

Salivary neurofilament light and YKL-40 as prognostic biomarkers of cognitive decline
Co-Investigator, Alzheimer's Drug Discovery Foundation (ADDF) 1/1/23 - 12/31/23
The overall goals of this project are to identify biomarker profiles in saliva that might represent indicators of early cognitive decline, with a focus on the neuronal and glial markers, NfL and YKL-40, respectively. Our overall hypothesis is that alterations in NfL and YKL-40 are early events in the development of AD and might represent biomarkers to detect patients at risk of developing AD during the preclinical phase. PI: Elizabeth Thomas.
Total Costs: $150,000

Circuit-specific tau burden and mechanisms of sleep-dependent memory processing in older adults at risk for Alzheimer's
Principal Investigator, NIA R21 AG079552 7/1/22 – 6/30/24
This study will assess whether circuit-specific tau deposition is differentially associated with distinct deficits in NREM and REM sleep oscillations, dynamic resting state network architecture, and emotional and non-emotional memory consolidation in older adults at risk for Alzheimer's disease. Findings will provide a novel mechanistic account for AD-related memory impairments and memory biases contributing to susceptibility to mood disturbance and emotion dysregulation in AD, which could help to guide prospective preclinical intervention studies to delay or prevent early symptoms of AD progression. MPI: B. Mander.
Total costs: $431,750

Testing the role of tau pathology in disrupting hippocampal CA1 memory function in older adults at risk for Alzheimer's
Principal Investigator, NIA R21 AG075464 2/1/22 – 1/31/24

The overall goal of this R21 project is to understand the relationship between tau pathology in nondemented older adults and disruption of hippocampal CA1 specific function. We use a statistical learning task that has been validated in young and older adults and is known to be sensitive to the integrity of CA1. We combine high-resolution functional MRI as well as tau PET with MK-6240 to test key hypotheses about how entorhinal-hippocampal microcircuits are altered with tau pathology. Total costs: $431,750

Alzheimer's Biomarkers Consortium in Down Syndrome (ABC-DS)
Co-Investigator and Imaging Site PI, NIA U19 AG068054 7/1/20 - 8/30/25
The goal of this multisite consortium is to establish biomarkers for predicting onset and progression to Alzheimer's disease in individuals with Down syndrome using multimodal imaging, proteomics, lipidomics, pathology, and neuropsychological examinations. The consortium is a collaboration between UC Irvine, Columbia University, Harvard/MGH, and Johns Hopkins University. PIs: Liz Head, Mark Mapstone, Brad Christian, Ben Handen.
Total costs: $103,012,285; Total for UCI Imaging subcontract (Yassa): $5,887,500

Investigating salivary biomarkers of inflammatory risk for Alzheimer's disease in the BEACoN Cohort
Co-Investigator, ICTS Pilot Award 7/1/22 – 6/30/23
This pilot award from the UCI Institute for Clinical and Translational Science will support two aims. First, we will quantify the levels of cytokines and other inflammatory markers in saliva samples from a cohort of deeply phenotyped, non-demented older adults (n=100; 60- 85 years), some of whom will be enriched for AD biomarkers (ApoE4 genotype, Aβ/Tau positivity). Second, we will determine associations between salivary and serum cytokine levels and multimodal neuroimaging biomarker data as well as performance on highly sensitive cognitive assessments. PI: E. Thomas.
Total costs: $25,000

Exploring the Effects of Corticosteroids on the Human Hippocampus Using Neurocognitive Testing and High-Resolution Brain Imaging
Principal Investigator, NIMH R01MH115932 4/1/19 - 1/1/24
This clinical trial examines the effect of acute administration of cortisol on brain structure and function in individuals with and without depression. We examine memory, activation of hippocampal subregions, and connectivity within the brain, following brief exposure to cortisol. Differences in hippocampal response between men and women, depressed and non-depressed people, and the impact of stress, early-life adversity, and sleep will be assessed. MPI: E.S. Brown, UTSW
Total costs: $3,837,300

Howard Schneiderman Interdisciplinary Training Program in Learning and Memory
Principal Investigator, NIMH T32MH119049 6/1/19 - 5/31/24
A NIMH funded T32 predoctoral training program that supports several predoctoral training slots each year in the board area of learning and memory. The program provides an immersive experience with several advanced courses, workshops, and conference requirements. It is supplemented by a private endowment. MPI: B. McNaughton
Total costs: $1,049,708

Fragmented Early Life and Emotional/Cognitive Vulnerabilities | Imaging Core
Principal Investigator – Imaging Core NIMH P50MH096889 5/1/19 - 4/30/24
The UCI Conte Center addresses the complex developmental mechanisms contributing to adolescent vulnerabilities to mental illnesses. The Center tests the unifying hypothesis that disturbed patterns of maternal signals early in life, especially their fragmentation and unpredictability, contribute greatly to adolescent emotional and cognitive vulnerabilities. The Imaging Core is responsible for testing the Center's neural hypotheses and incorporates animal and human imaging. PI: T.Z. Baram.
Total costs for Imaging Core (Yassa): $2,310,000

The Brain Explorer Academy (BEA): An Informal Science Education Partnership Award (SEPA)

Principal Investigator, NIGMS R25 GM146300 5/15/22 - 4/14/27
With the overall goal of addressing the challenges in STEM pipeline diversity, the Brain Explorer Academy (BEA) is a comprehensive, multi-year, socio-ecological informal science education program that uses neuroscience to instill curiosity and foster interest in STEM careers. The BEA will marshal high school students through a multi-stage intervention that fosters interest in STEM, knowledge and skill development, critical thinking, scientific communication, and quantitative/analytics competencies. The program includes an independent assessment of its processes and outcomes by a third-party evaluator. MPI: N. Guerra.
Total Costs: $1,246,564

International Conference on Learning and Memory (#LEARNMEM2023)
Principal Investigator, NINDS R13NS132531 4/1/23 - 3/31/24
This conference grant is to support the costs of hosting the International Conference on Learning and Memory, a five-day broad conference that includes plenary talks by world-renowned speakers, 42 symposia that cut across topics and approaches in learning and memory, and over 600 short talks and poster presentations. The conference is held in celebration of the 40th anniversary of the Center for the Neurobiology of Learning and Memory. MPI: Manuella Yassa
Total Costs: $50,360

Augmem™: A Novel Digital Cognitive Assessment for the Early Detection of Alzheimer's Disease
Consortium PI, NIA R44 AG079718 (Direct to Phase II SBIR) 9/1/22 – 8/30/24
This Direct to Phase II SBIR Grant proposes to develop and evaluate Augmem™, a digital cognitive biomarker platform that assesses memory object, spatial and temporal pattern separation, the goal of which is to predict early cognitive decline and treatment response. PI: A. Gilpin, Augnition Labs, LLC.
Total costs: $1,838,618

Diagnosis and Risk Factors of Hippocampal Sclerosis of Aging (HSA)
Co-Investigator, NIA R01AG062706 4/1/19 - 1/31/24
The goal of this study is to test the hypothesis that compared to Alzheimer's disease, HSA sufferers have a significant impairment of episodic memory both at mild stages of dementia and longitudinally and to test the hypothesis that disproportionate atrophy of CA1 region of hippocampus and increased hippocampal T2 relaxation can be leveraged to diagnose HSA from AD during life. PI: S. Sajjadi. Nominal support for Yassa.

Completed Support

Risk Factors for Future Cognitive Decline and Alzheimer's in Older African Americans
Co-Investigator, NIA R01AG053961 (PI: Mark Gluck) 5/15/18 - 3/31/23

A Neurocognitive Mechanism for Precision of Visual Working Memory Representations
Co-Investigator, NIMH R01MH117132 (PI: Weiwei Zhang) 8/9/18 - 5/31/22

Neuroimaging Biomarkers for Cognitive Decline in Elderly with Amyloid Pathology
Principal Investigator, NIA R01AG053555 (MPI: Daniel Gillen) 7/1/17 - 12/31/22

Tau PET Imaging Biomarkers for Preclinical Alzheimer's Disease
Principal Investigator, NIA R01AG053555-S1 7/1/18 - 12/31/22

Epigenetic PET Tracer for Cross-Species Investigation of Age-Related Memory Decline
Co-Principal Investigator, Cal-BRAIN Grant (Co-PI: Marcelo Wood) 6/1/15 - 3/30/22

Irvine Sleep and Circadian Neuroscience (SCN) Center
Co-Principal Investigator, UC Irvine Office of Research (Co-PI: Ruth Benca) 8/1/17 - 7/30/20

Impact of olfactory enrichment on cognitive health in older adults (Clinical Trial)

Co-Principal Investigator, Proctor & Gamble Grant (ISR) (Co-PI: Michael Leon) 9/1/18 - 8/30/20

Biomarkers for Alzheimer's Disease in Adults with Down Syndrome
Co-Investigator and Imaging PI, NIA U01 AG051412 (PIs: Schupf, Silverman, Lott) 9/15/15 - 6/30/20

Neural Mechanisms of Emotional Memory Modulation in Major Depressive Disorder
Principal Investigator, NIMH R01MH102392 9/5/14 - 7/31/19

International Conference on Learning and Memory (#LEARNMEM2018)
Principal Investigator, NINDS R13NS106922 4/1/18 - 3/31/19

High-Resolution Neuroimaging Biomarkers of Preclinical Alzheimer's Disease
Principal Investigator (Project 1), NIA P50 AG16573 (PI: Frank LaFerla) 1/1/15 - 4/30/19

High-Resolution Brain Imaging of the Medial Temporal Lobes in Neurocognitive Aging
Co-Investigator, NIA R01AG034613 (PI: Craig Stark) 9/30/09 - 7/31/19

Selective Age-Related Vulnerability in Human Perirhinal and Lateral Entorhinal Cortices
Principal Investigator, NIA R21AG049220 9/15/15 - 4/30/19

Effect of Acute Mild Exercise Intervention on Hippocampal Memory in MCI Individuals
Principal Investigator, Exercise Initiative Pilot Grant 5/1/16 - 4/30/18

Pathways to Brain Health for African Americans: A Community-Based Participatory Study
Co-Investigator, NIA R56AG053961 (PI: Mark Gluck) 7/1/16 - 6/30/17

The Role of the Hippocampus in Reducing Temporal Interference In Learning Episodes
Co-Principal Investigator, JHU Science of Learning Institute Seed Grant 6/1/13 - 5/30/15

Examining the Neural Basis of Neuroimaging Signatures of Cognitive Decline
Principal Investigator, JHU Medicine Ossoff Scholars Program 7/1/11 - 6/30/13

Neural Basis for Language Processes in Acute Stroke
Co-Investigator, NIDCD R01DC005375 (PI: Argye Hillis) 7/1/12 - 12/31/13

High-Resolution Neuroimaging Tools for Investigating Age-Related Memory Loss
Principal Investigator – Pilot Project, NIA P50AG05146 (PI: Marilyn Albert) 7/1/11 - 6/30/12