

CURRICULUM VITAE

Martina Krisztina Hollearn, PhD

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EDUCATION

- Jan 2024 – Aug 2026 Doctorate Degree in Psychology (Cognitive and Neural Sciences)
University of Utah
GPA: 4.0
- Aug 2021 – Dec 2023 Master of Science in Psychology (Cognitive and Neural Sciences)
University of Utah
GPA: 4.0
- Aug 2016 - May 2019 Baccalaureate of Arts in Psychology,
California State University of Long Beach
GPA: 3.84

GRANTS

- 2022 - 2025 National Science Foundation
Graduate Research Fellowship Program
- 2017-2019 National Institute of Health
BUILD Scholar Program awarded a two-year partial tuition funding (\$10,956 per year), training in professional development in research and networking opportunities.

SELECTED PUBLICATIONS

- Wahlstrom, K.L., Campbell, J.M., **Hollearn, M.K.**, Swift, J., Adamek, M., Blanpain, L., Xie, T., Davis, T., Brunner, P., Hamann, S.B., Arain, A., Eisenman, L.N., Rolston, J.D., Rahimpour, S., Manns, J.R., Willie, J.T., Inman, C.S. (2026) Direct electrical stimulation of the human amygdala enhances recognition memory for objects but not scenes. *Communications Biology*, doi: <https://doi.org/10.1101/2025.06.05.658078>
- Tan, G., Demarest, P., Li, Y., Cho, H., Park, H., Swift, J.R., Inman, C. S., Manns, J.R., Hamann, S.B., Liu, X., Wahlstrom, K.L., Li, Z., **Hollearn, M.K.**, Campbell, J.M., Cettina, P.E., Sivakumar, S.S., Leuthardt, E.C., Willie, J.T., Brunner, P. Mind's eye: Saccade-related evoked potentials support visual encoding in humans. (2026). MedRxiv. doi: <https://doi.org/10.1101/2025.11.11.25339896>
- Campbell, J. M., Cowan, R., Wahlstrom, K. L., **Hollearn, M. K.**, Jensen, D., Davis, T., Rahimpour, S., Shofty, B., Arain, A., Rolston, J. D., Hamann, S. B., Wang, S., Eisenman, L., Swift, J., Xie, T., Brunner, P., Manns, J. R., Inman, C. S., Smith, E., Willie, J. T. (2025). Human single-neuron activity is modulated by intracranial theta burst stimulation of the basolateral amygdala. *Elife*. <https://doi.org/10.1101/2024.11.11.622161>
- Hollearn, M. K.**, Manns, J. R., Blanpain, L., Hamann, S. B., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Light, G. F., Demarest, P., Willie, J. T., Inman, C. S. (2024) Exploring individual differences in amygdala-mediated memory modulation. *Cognitive, Affective, and Behavioral Neurosciences*, 25, 188-209. <https://doi.org/10.3758/s13415-024-01250-4>

Inman, C. S., **Hollearn, M. K.**, Augustin, L., Campbell, J. M., Olson, K. L., Wahlstrom, K. L. (2023). Discovering how the amygdala shapes human behavior: From lesion studies to neuromodulation. *Neuron*, 111(24), 3906-3910. <https://doi.org/10.1016/j.neuron.2023.09.040>

Kim, S., Chappel-Farley, M., Keator, D. B., Janecek, J., McMillan, L., Miranda, B., **Hollearn, M. K.**, Mikhail, A., Yassa, M.A. (2023). Examining the diagnostic utility of the mnemonic discrimination task for classification of cognition and amyloid- β burden. *Neuropsychologia*, 191. <https://doi.org/10.1016/j.neuropsychologia.2023.108727>

Chwiesko, C., Janecek, J., Doering, S. S., Vanderkerckhove, J., Lee, M., **Hollearn, M. K.**, Ratcliff, R., McMillan, L., Yassa, M. A. (2023). Parsing Memory and Non-Memory Contributions to Age-Related Declines in Mnemonic Discrimination Performance: A Hierarchical Bayesian Diffusion Decision Modeling Approach. *Learning and Memory*, 30(11), 296-309. <https://doi.org/10.1101/lm.053838.123>

Rizvi, B., Sathishkumar, M., Kim, S., Marquez, F., Granger, S. J., Larson, M. S., Miranda, B. A., **Hollearn, M. K.**, McMillan, L., Nan, B., Tustinson, N. J., Lao, P. J., Brickman, A. M., Greenia, D., Corrada, M. M., Kawas, C. H., Yassa, M. A. (2023). Posterior white matter hyperintensities are associated with reduced medial temporal lobe subregional integrity and long-term memory in older adults. *NeuroImage: Clinical*, 37. <https://doi.org/10.1016/j.nicl.2022.103308>

Adams, J., Márquez, F., Larson, M. S., Janecek, J. T., Miranda, B. A., Noche, J. A., Taylor, L., **Hollearn, M. K.**, McMillan, L., Keator, D. B., Rissman, R. A., Head, E., Yassa, M. A. (2023). Differential involvement of hippocampal subfields in the relationship between Alzheimer's pathology and memory interference in older adults. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 15(2). <https://doi.org/10.1002/dad2.12419>

Domingo, A. & **Hollearn, M. K.** (2023) The Impact of College Student Characteristics' upon the Four Dimensions of Academic Self-Efficacy. *International Journal of Arts, Humanities and Social Science*, 3(6), 23-30. <https://www.ijahss.net/assets/files/1655479025.pdf>

Parkin, G. M., Kim, S., Mikhail, A., McMillan, L., Malhas, R., **Hollearn, M. K.**, Granger, D. A., Mapstone, M., Yassa, M. A., Thomas, E. A. (2022). Associations between saliva and plasma cytokines and YKL-40 in cognitively normal, older adults. *Aging Clinical and Experimental Research*, 35, 117-126. <https://doi.org/10.1007/s40520-022-02292-9>

MANUSCRIPTS UNDER REVIEW & IN PREP

Hollearn, M. K. and Inman, C. S. (2025). Optimizing the personalization of human direct brain stimulation for memory enhancement. *Submitted to Brain Stimulation*.

Hollearn, M. K., Tasevac, A., Wahlstrom, K. L., Inman, C.S. (2025). Making memories last: The brain's filing system. *Submitted to Frontiers for Young Minds*.

SELECTED CONFERENCE PRESENTATIONS

Hollearn, M. K., Manns, J. R., Kazemi, A., Blanpain, L., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Light, G. F., Wilson, Z. R., Tasevac, A., Willie, J. T., Inman, C. S. (2026). *Investigating the sources of high variability in human amygdala-mediated memory modulation*. Neurobiology of Learning and Memory Conference, Park City, UT.

Hollearn, M. K., Manns, J. R., Kazemi, A., Blanpain, L., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Light, G. F., Wilson, Z. R., Tasevac, A., Willie, J. T., Inman, C. S. (2025). *Modulating declarative memory with direct human amygdala stimulation*. Cognitive Neuroscience Society, Boston, MA.

Hollearn, M. K., Manns, J. R., Blanpain, L., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Light, G. F., Wilson, Z. R., Tasevac, A., Willie, J. T., Inman, C. S. (2024) *Electrophysiology of stimulation parameters in human amygdala-mediated memory modulation*. Federation of European Neuroscience Society, Vienna, Austria.

Hollearn, M. K., Blanpain, L., Manns, J. R., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Light, G. F., Willie, J. T., Inman, C. S. (2023) *Exploring individual differences and stimulation parameters in amygdala-mediated memory modulation*. Society for Neuroscience, Washington D.C.

Hollearn, M. K., Blanpain, L., Manns, J. R., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Willie, J. T., Inman, C. S. (2023) *Exploring stimulation parameters and individual differences in amygdala-mediated memory modulation*. Learning and Memory Conference, Surf City, CA.

Hollearn, M. K., Blanpain, L., Manns, J. R., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Willie, J. T., Inman, C. S. (2023) *Responders of direct human amygdala stimulation for memory enhancement*. Neurobiology of Learning and Memory Conference, Park City, UT.

Hollearn, M. K., Blanpain, L., Manns, J. R., Hamann, S. B., Bijanki, K., Gross, R. E., Drane, D., Campbell, J. M., Wahlstrom, K. L., Willie, J. T., Inman, C. S. (2022) *Direct Electrical Stimulation of the Human Amygdala Enhances Declarative Memory*. Society for Neuroscience, San Diego, CA.

Hollearn, M. K., & Miles, J. D. (2019). Do People Mentally Represent Automated Tasks? Evidence from Task-Switching Costs Following Takeovers. Proceedings of the Human Factors and Ergonomics Society Annual Meeting Conference, Seattle, WA.

Hollearn, M. K., & Domingo, A. (2018). *The Interplay between Grit, Coping Styles, and Student Characteristics upon the Four Dimensions of Academic Self-Efficacy*. Poster presentation at Western Psychological Association Conference, Portland, OR.

Hollearn M. K., & Domingo, A. (2018). *The Impact of Academic Incompletes upon Academic Self-Efficacy, Grit, and Coping Strategies of College Students*. Poster presentation at American Society of Psychology Conference, San Francisco, CA.

TEACHING EXPERIENCES

Aug 2021 – Dec 2023

Instructor

University of Utah, Salt Lake City

Courses:

- Neurospirituality of Trauma Relief (online)
- Neurobiology of Learning and Memory (2x, one online)
- Sensation & Perception (online)

Aug 2021 – Dec 2023

Teaching Assistant

University of Utah, Salt Lake City

Courses:

- Brain and Behavior (4x)
- Research Methods (2x)

Aug 2021 – Aug 2023

Guest Lecturer

University of Utah, Salt Lake City

Courses:

- Brain and Behavior (Sensation & Perception)
- Adult Development (Alzheimer's disease and other dementias)
- Psychology as a Profession (Neuroscience as a profession)

OUTREACH AND SCIENCE COMMUNICATION (SELECTED)

March, 2026	Science Technology Engineering Art Mathematics Night Mt. View Elementary School, Salt Lake City, UT
March, 2026	STEM Museum exhibit – A spotlight on Neuroscience Natural History Museum of Utah, Salt Lake City, UT
November, 2025	The field of Psychology and getting a higher education in STEM Olympus High School, Salt Lake City, UT
May, 2025	Neuroscience, Psychology, and Memory Slate Canyon Youth Center, Provo, UT
February, 2025	The field of Psychology and getting a higher education in STEM Olympus High School, Salt Lake City, UT
September, 2023	NSF GRFP grant writing workshop Graduate Student Professional Development, University of Utah
March, 2024	The field of Neuroscience and getting a higher education in STEM Olympus High School, Salt Lake City, UT
October, 2023	Neuroscience, Psychology, and Memory Farmington Bay Youth Detention Center, Salt Lake City, UT
September, 2023	Science and Art of our Memories Salt Lake Valley Youth Detention Center, Salt Lake City, UT
March, 2023	Interventions and care for people with memory disorders Sunrise Memory Care Center, Salt Lake City, UT
September, 2022	Neuroscience of aging and the neurobiology of memory disorders Sunrise Memory Care Center, Salt Lake City, UT
September, 2022	The most interdisciplinary branch of psychology: Neuroscience Olympus High School, Salt Lake City, UT

AWARDS & RECOGNITIONS

2023	<i>Aging & Brain Health Tutorial Workshop Fellowship</i> A fully funded trip to Aspen, CO to present at The 1 st Annual Interdisciplinary Tutorial Workshop on Aging and Brain Health Conference
2023	<i>Nancy Patterson Klekas Outstanding Service Award</i> University of Utah awarded \$1,000 to an outstanding graduate student in service and community engagement, award based on nomination from graduate students, faculty, and staff
2023	<i>Earl and Elies Skidmore Endowed Graduate Fellowship</i> University of Utah College of Social and Behavioral Sciences fellowship supports outstanding graduate students in both research and community involvement (\$5,000)
2023	<i>Society for Neuroscience Scholars Program Enrichment Fund</i> SfN awarded \$1,000 for professional development experience – I choose neuroanatomy training with our neurosurgeon colleague at Washington University in St. Louis, MO
2023	<i>College of Social and Behavioral Sciences Travel Award</i> University of Utah awarded \$1,000 to cover conference travel expenses
2022	<i>Earl and Elies Skidmore Endowed Graduate Fellowship</i> University of Utah College of Social and Behavioral Sciences fellowship supports outstanding graduate students in both research and community involvement (\$5,000)
2022	<i>Graduate Student Travel Award</i> University of Utah awarded \$1,000 to cover conference travel expenses
2022	<i>Assocaited Students Inc. Student Travel Fund</i> University of Utah awarded \$600 to cover conference travel expenses
2021	<i>Joseph A. and Ruth S. Clayton Summer Research Award</i> Supports an outstanding incoming graduate student for the entire summer
2021	<i>National Science Foundation Graduate Research Fellowship Program</i> Honorable Mention
2022-2025	<i>Research and Service Commendation</i> University of Utah Psychology Department faculty

LEADERSHIP & ADDITIONAL SERVICE

Dec 2024 –April 2025	Invited member of the Mutual Aid Fund Committee, University of Utah
Aug 2024 – Jan 2026	Leader of the Cog Seminar talk series and journal club, University of Utah
Aug 2024 – Aug 2025	Student Leader of Psychology Diversity Committee, University of Utah
Aug 2024 – Aug 2025	President of Diversity Graduate Student Application Assistance Program
Oct 2023 –May 2024	Psychology Issues and Ethics Committee, University of Utah

Aug 2023 – Jan 2024	Science with U one-on-one mentorship program
Aug 2023 – Jan 2025	Neuroscience BrainBee outreach & <i>recruitment lead</i> , University of Utah
June 2022 – Jan 2025	<i>Leader</i> of Psychology Department’s Outreach Committee, University of Utah

RESEARCH SUPERVISION AND MENTORSHIP

2026	Undergraduate Research Opportunity Program guidance for Tyler Feidholm
2025-2026	Undergraduate Research Opportunity Program guidance for Austin Jensen
2024	Undergraduate Research Opportunity Program guidance for Zack Wilson
2023-2025	Undergraduate honor’s thesis preparation and completion for Griffin Light
2021-2022	Undergraduate honor’s thesis preparation and completion for Wyatt Wilson
2021-2026	Helped over 7 students from underrepresented backgrounds get into a PhD program
2021-2026	Assisted over 20 NSF GRFP applications from which 6 were awarded