

# Adrian W. Gilmore, Ph.D.

## Curriculum Vitae

**Email:** gilmore@udel.edu

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**ORCID:** orcid.org/0000-0001-8910-5009

### **PROFESSIONAL APPOINTMENTS**

- 2024 - present **Assistant Professor**  
Department of Psychological and Brain Sciences, University of Delaware, Newark, DE
- 2021 - 2024 **Research Fellow**  
Laboratory of Brain and Cognition, National Institute of Mental Health, Bethesda, MD
- 2016 – 2021 **Postdoctoral Fellow**  
Laboratory of Brain and Cognition, National Institute of Mental Health, Bethesda, MD
- 2007-2010 **Laboratory Manager**  
Schacter Memory Lab, Harvard University, Cambridge, MA

### **EDUCATION**

- 2016 **Ph.D.** in Psychological and Brain Sciences  
Washington University in St. Louis, St. Louis, MO
- 2012 **A.M.** in Psychology  
Washington University in St. Louis, St. Louis, MO
- 2007 **B.A.** in Classical Civilizations and Psychology (Neuroscience), *summa cum laude*  
Colby College, Waterville ME

### **RESEARCH INTERESTS**

Autobiographical memory ♦ Episodic future thinking ♦ Functional connectivity MRI ♦ Parietal lobe contributions to cognition ♦ Recognition memory ♦ Repetition enhancement ♦ Repetition suppression

### **HONORS AND FELLOWSHIPS**

- 2023 Elected to Memory Disorders Research Society
- 2023 Association for Psychological Science Rising Star
- 2021 NIMH Julius Axelrod Memorial Fellowship Award
- 2020 NIH Fellows Award for Research Excellence
- 2018 NIMH Intramural Research Program Trainee Travel Award
- 2015 Washington University in St. Louis Dean's Dissertation Research Fellowship
- 2012 Kavli Summer Institute in Cognitive Neuroscience Fellowship
- 2011 NSF Graduate Research Fellowship
- 2007 Colby College Edward Colgan Prize in Psychology
- 2007 Inducted to Phi Beta Kappa, Colby College chapter
- 2007 Inducted to Psi Chi
- 2003 – 2006 Colby College Dean's List Scholar

## **GRANTS AND SUPPORT**

- 2021 NIMH Julius Axelrod Memorial Fellowship Award, \$10,000
- 2015 American Psychological Association Dissertation Research Award, \$1,000
- 2015 Washington University Department of Psychological and Brain Sciences Dissertation Research Award, \$500

## **PEER-REVIEWED PUBLICATIONS (Citations: 7076; h-index: 27)**

38. Agron, A., Martin, A., & **Gilmore, A.W.** (2024). Scene construction and autobiographical memory deficits in autism spectrum disorder. *Autism Research*, 17, 204-214. 10.1002/aur.3066
37. Audrain, S.\*, **Gilmore, A.W.\***, Wilson, J.M., Schacter, D.L. & Martin, A. (2022). A role for the anterior hippocampus in autobiographical memory construction regardless of temporal distance. *Journal of Neuroscience*, 42, 6445-6452. 10.1523/jneurosci.0832-22.2022  
**\*Equal contribution first authors**
36. **Gilmore, A.W.**, Agron, A., González-Araya, E.I., Gotts, S.J., & Martin, A. (2022). A comparison of single- and multi-echo processing of fMRI data during overt autobiographical recall. *Frontiers in Neuroscience*, 16, 854387. 10.3389/fnins.2022.854387
35. **Gilmore, A.W.**, Audrain, S., & Martin, A. (2022). Specifying “where” and “what” is critical for testing hippocampal contributions to remote memory retrieval. *Cognitive Neuroscience*, 13, 144-146. 10.1080/17588928.2022.2076071
34. Berg, J.J., **Gilmore, A.W.**, Shafer, R. & McDermott, K.B. (2021). The stability of visual perspective and subjective vividness during mental time travel. *Consciousness and Cognition*, 92, 103116. 10.1016/j.concog.2021.103116
33. **Gilmore, A.W.**, Nelson, S.M., & McDermott, K.B. (2021). Precision functional mapping of human memory systems. *Current Opinion in Behavioral Sciences*, 40, 52-57. 10.1016/j.cobeha.2020.12.013
32. **Gilmore, A.W.**, Quach, A., Kalinowski, S.E., González-Araya, E.I., Gotts, S.J., Schacter, D.L., & Martin, A. (2021). Evidence supporting a time-limited hippocampal role in retrieving autobiographical memories. *Proceedings of the National Academy of Sciences of the United States of America*, 118, e2023069118. 10.1073/pnas.2023069118
31. **Gilmore, A.W.**, Quach, A., Kalinowski, S.E., Gotts, S.J., Schacter, D.L., & Martin, A. (2021). Dynamic content reactivation supports naturalistic autobiographical recall in humans. *Journal of Neuroscience*, 41, 153-166. 10.1523/jneurosci.1490-20.2020
30. Laumann, T.O., Ortega, M., Hoyt, C.R., Seider, N.A., Siegel, J.S., Nguyen, A.L., Dierker, D.L., Coalson, R.S., Adeyemo, B., Marek, S., **Gilmore, A.W.**, Nelson, S.M., Shimony, J.S., Greene, D.J., Raichle, M.E., Gordon, E.M., Petersen, S.E., Schlaggar, B.L., Snyder, A.Z., & Dosenbach, N.U.F. (2021). Brain network reorganisation in an adolescent after bilateral perinatal strokes. *The Lancet Neurology*, 20, 255-256. 10.1016/S1474-4422(21)00062-4

29. Zheng, A., Montez, D.F., Marek, S., **Gilmore, A.W.**, Newbold, D.J., Laumann, T.O., Kay, B.P., Seider, N.A., Van, A.N., Hampton, J.M., Alexopoulos, D., Schlaggar, B.L., Sylvester, C.M., Greene, D.J., Shimony, J.S., Nelson, S.M., Wig, G.S., Gratton, C., McDermott, K.B., Raichle, M.E., Gordon, E.M., & Dosenbach, N.U.F. (2021). Parallel hippocampal-parietal circuits for self- and goal-oriented processing. *Proceedings of the National Academy of Sciences of the United States of America*, *118*, e2101743118. 10.1073/pnas.2101743118
28. Gotts, S.J., **Gilmore, A.W.** & Martin, A. (2020). Brain networks, dimensionality, and global signal averaging in resting-state fMRI: Hierarchical network structure results in low-dimensional spatiotemporal dynamics. *NeuroImage*, *205*, 116289. 10.1016/j.neuroimage.2019.116289
27. Greene, D.J., Marek, S., Gordon, E.M., Siegel, J.S., Gratton, C., Laumann, T.O., **Gilmore, A.W.**, Berg, J.J., Nguyen, A.L., Dierker, D., Van, A.N., Ortega, M., McDermott, K.B., Roland, J.L., Norris, S.A., Nelson, S.M., Snyder, A.Z., Schlaggar, B.L., Petersen, S.E., & Dosenbach, N.U.F. (2020). Integrative and network-specific connectivity of the basal ganglia and thalamus defined in individuals. *Neuron*, *105*, 742-758.e6. 10.1016/j.neuron.2019.11.012
26. Sylvester, C.M., Yu, Q., Srivastava, A.B., Marke, S., Zheng, A., Alexopoulos, D., Smyser, C.D., Shimony, J.S., Ortega, M., Dierker, D.L., Patel, G.H., Nelson, S.M., **Gilmore, A.W.**, McDermott, K.B., Berg, J.J., Drysdale, A.T., Perino, M., Snyder, A.Z., Raut, R.V., Laumann, T.O., Gordon, E.M., Barch, D.M., Rogers, C.E., Greene, D.J., Raichle, M.E., & Dosenbach, N.U.F. (2020). Individual-specific functional connectivity of the amygdala: A substrate for precision psychiatry. *Proceedings of the National Academy of Sciences of the United States of America*, *117*, 3808-3818. 10.1073/pnas.1910842117
25. **Gilmore, A.W.**, Kalinowski, S. E., Milleville, S., Gotts, S.J., & Martin, A. (2019). Identifying task-general effects of stimulus familiarity in the parietal memory network. *Neuropsychologia*, *124*, 31-43. 10.1016/j.neuropsychologia.2018.12.023
24. **Gilmore, A.W.**, Nelson, S.M., Laumann, T.O., Gordon, E.M., Berg, J.J., Gratton, C., Greene, D.J., Nguyen, A., Ortega, M., Coalson, R.S., Schlaggar, B.L., Petersen, S.E., Dosenbach, N.U.F., & McDermott, K.B. (2019). High-fidelity mapping of repetition-related changes in the parietal memory network. *NeuroImage*, *199*, 427-439. 10.1016/j.neuroimage.2019.06.011
23. Power, J.D., Lynch, C.J., **Gilmore, A.W.**, Gotts, S.J., & Martin, A.M. (2019). Reply to Spreng et al.: Multi-echo fMRI denoising does not remove global motion-associated respiratory signals. *Proceedings of the National Academy of Sciences of the United States of America*, *116*, 19243-19244. 10.1073/pnas.1909852116
22. Seitzman, B.A., Gratton, C., Laumann, T.O., Gordon, E.M., Adeyemo, B., Dworketsky, A., **Gilmore, A.W.**, Berg, J.J., Ortega, M., Nguyen, A., Greene, D.J., McDermott, K.B., Nelson, S.M., Lessov-Schlaggar, C.N., Schlaggar, B.L., Dosenbach, N.U.F., & Petersen, S.E. (2019). Trait-like variants in human functional brain networks. *Proceedings of the National Academy of Sciences of the United States of America*, *116*, 22851-22861. 10.1073/pnas.1902932116
21. Silson, E.H.\*, **Gilmore, A.W.\***, Kalinowski, S.E., Steel, A., Martin, A., & Baker, C.I. (2019) A posterior-anterior distinction between scene perception and scene construction in human medial parietal cortex. *Journal of Neuroscience*, *39*, 705-717. 10.1523/jneurosci.1219-18.2018  
\*Equal contribution first authors
20. Silson, E.H., Steel, A.D., Kidder, A., **Gilmore, A.W.**, & Baker, C.I. (2019) Distinct subdivisions of human medial parietal cortex are recruited differentially for memory recall of places and people. *eLife*, *8*:e47391. 10.7554/eLife.47391

19. **Gilmore, A.W.**, Nelson, S.M., Chen, H-Y, & McDermott, K.B. (2018). Task-related and resting-state fMRI identify distinct networks which preferentially support remembering the past and imagining the future. *Neuropsychologia*, *110*, 180-189. 10.1016/j.neuropsychologia.2017.06.016
18. **Gilmore, A.W.**, Nelson, S.M., Naaz, F., Shaffer, R.A., & McDermott, K.B. (2018). BOLD activity during correct-answer feedback in cued recall predicts subsequent retrieval performance: An fMRI investigation using a partial trial design. *Cerebral Cortex*, *28*, 4008-4022. 10.1093/cercor/bhx264
17. Gordon, E.M., Lynch, C.J., Gratton, C., Laumann, T.O., **Gilmore, A.W.**, Greene, D.J., Ortega, M., Nguyen, A.L., Schlaggar, B.L., Petersen, S.E., Dosenbach, N.U.F., & Nelson, S.M. (2018). Three distinct sets of connector hubs integrate human brain function. *Cell Reports*, *24*, 1687-1695.e5. 10.1016/j.celrep.2018.07.050
16. Gratton, C., Laumann, T., Nielsen, A., Greene, D., Gordon, E., **Gilmore, A.W.**, Nelson, S.M., Coalson, R., Snyder, A., Schlaggar, B.L., Dosenbach, N.U.F., & Petersen, S.E. (2018). Functional brain networks are dominated by stable group and individual factors, not cognitive or daily variation. *Neuron*, *98*, 439-452.e5. 10.1016/j.neuron.2018.03.035
15. Chen, H-Y., **Gilmore, A.W.**, Nelson, S.M., & McDermott, K.B. (2017). Are there multiple kinds of episodic memory? An fMRI investigation comparing autobiographical and recognition memory tasks. *Journal of Neuroscience*, *37*, 2764-2775. 10.1523/jneurosci.1534-16.2017
14. Gordon, E.M. Laumann, T.O., Adeyemo, B., **Gilmore, A.W.**, Nelson, S.M., Dosenbach, N.U.F., Petersen, S.E. (2017). Individual-specific features of brain systems identified with resting state functional correlations. *NeuroImage*, *146*, 918-939. 10.1016/j.neuroimage.2016.08.032
13. Gordon, E.M.\* , Laumann, T.O.\* , **Gilmore, A.W.**, Newbold, D.J., Greene, D.J., Berg, J.J., Ortega, M., Hoyt Drazen, C., Gratton, C., Sun, H., Hampton, J.M., Coalson, R.S., Nguyen, A., McDermott, K.B., Shimony, J.S., Snyder, A.Z., Schlaggar, B.L., Petersen, S.E., Nelson, S.M., & Dosenbach, N.U.F. (2017). Precision functional mapping of individual human brains. *Neuron*, *16*, 791-807. 10.1016/j.neuron.2017.07.011
12. Laumann, T.O., Snyder, A.Z., Mitra, A.M., Gordon, E.M., Gratton, C., Adeyemo, B., **Gilmore, A.W.**, Nelson, S.M., Berg, J.J., Greene, D.J., McCarthy, J.E., Dosenbach, N.U.F., Schlaggar, B.S., & Petersen, S.E. (2017). On the stability of BOLD fMRI correlations. *Cerebral Cortex*, *27*, 4719-4732. 10.1093/cercor/bhw265
11. McDermott, K.B., **Gilmore, A.W.**, Nelson, S.M., Watson, J.W., & Ojemann, J.G. (2017). The parietal memory network activates similarly for true and associative false recognition elicited via the DRM procedure. *Cortex*, *87*, 96-107. 10.1016/j.cortex.2016.09.008
10. **Gilmore, A.W.**, Nelson, S.M., & McDermott, K.B. (2016). The contextual association network activates more for remembered than for imagined events. *Cerebral Cortex*, *26*, 661-617. 10.1093/cercor/bhu223
9. Nelson, S.M., Savalia, N.K., Fishell, A.K., **Gilmore, A.W.**, Zou, F., Balota, D.A., & McDermott, K.B. (2016). Default mode network activity predicts early memory decline in healthy young adults aged 18-31. *Cerebral Cortex*, *26*, 3379-3389. 10.1093/cercor/bhv165
8. **Gilmore, A.W.**, Nelson, S.M., & McDermott, K.B. (2015). A parietal memory network revealed by multiple MRI methods. *Trends in Cognitive Sciences*, *19*, 534-543. 10.1016/j.tics.2015.07.004

7. Laumann, T.O., Gordon, E.M., Adeyemo, T., Snyder, A.Z., Joo, S. J., Chen, M-Y., **Gilmore, A.W.**, McDermott, K.B., Nelson, S.M., Dosenbach, N.U.F., Schlaggar, B.L., Mumford, J.A., Poldrack, R.A., & Petersen, S.E. (2015). Functional system and areal organization of a high-sampled individual human brain. *Neuron*, 87, 657-670. 10.1016/j.neuron.2015.06.037
6. Weinstein, Y., **Gilmore, A.W.**, McDermott, K.B., & Szpunar, K.K. (2014). The role of test expectancy in the build-up of proactive interference in long-term memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 40, 1039-1048. 10.1037/a0036164
5. Nelson, S.M., Arnold, K.M., **Gilmore, A.W.**, & McDermott, K.B. (2013). Neural signatures of test-potentiated learning in parietal cortex. *Journal of Neuroscience*, 33, 11754-11762. 10.1523/jneurosci.0960-13.2013
4. Guerin, S.A., Robbins, C.A., **Gilmore, A.W.**, & Schacter, D.L. (2012). Interactions between visual attention and episodic retrieval: Dissociable contributions of parietal regions during gist-based false recognition. *Neuron*, 75, 1122-1134. 10.1016/j.neuron.2012.08.020.
3. Guerin, S.A., Robbins, C.R., **Gilmore, A.W.**, & Schacter, D.L. (2012). Retrieval failure contributes to gist-based false recognition. *Journal of Memory and Language*, 66, 68-78. 10.1016/j.jml.2011.07.002
2. Gerlach, K.D., Spreng, R.N., **Gilmore, A.W.**, & Schacter, D.L. (2011). Solving future problems: Neural activity associated with goal-directed mental simulations. *NeuroImage*, 55, 1816-1824. 10.1016/j.neuroimage.2011.01.030
1. Spreng, R.N., Stevens, W.D., Chamberlain, J., **Gilmore, A.W.**, & Schacter, D.L. (2010). Default network activity, coupled with the frontoparietal control network, supports goal-directed cognition. *NeuroImage*, 53, 303-317. 10.1016/j.neuroimage.2010.06.016

#### **BOOK CHAPTERS**

1. McDermott, K.B. & **Gilmore, A.W.** (2015). The role of context in understanding similarities and differences in remembering and episodic future thinking. In Ross, B. (Ed) *Psychology of Learning and Motivation, Volume 63*. Academic Press: Elsevier, pp. 45-76. 10.1016/bs.plm.2015.03.004

#### **MANUSCRIPTS SUBMITTED OR IN REVISION**

**Gilmore, A.W.**, Audrain, S., Snow, J., Wilson, J.M., Agron, A.M., Hammoud, D.A., Butman, J.A., & Martin, A. (resubmitted). Long-term retention of novel information learned by a profoundly amnesic patient in a natural environment.

Csumitta, K.D., Ossowski, A., **Gilmore, A.W.**, Gotts, S.J., & Martin, A. (in revision). Brain regions with positive and negative task-evoked responses engage in cooperative rather than competitive interactions. Preprint link: <https://www.biorxiv.org/content/10.1101/687897v1>

#### **MANUSCRIPTS IN PREPARATION**

**Gilmore, A.W.**, Claudino, L., Levesque, C.M., Agron, A.M., Molfese, P.J., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. Facilitated synchronization of neural activity links repetition-related improvements in behavior with reductions in neural activity: A simultaneous EEG-fMRI study.

**Gilmore, A.W.** & Silson, E.H. The default shouldn't be "default": Functional heterogeneity in medial parietal cortex.

## **INVITED TALKS**

- Dec, 2022      Recent memory, remote memory, and the hippocampus. **SUNY Binghamton**, *Invited Job Talk*
- Dec, 2022      Recent memories, remote memories, and the hippocampus. **Northwestern University**, *Cognitive Brain Mapping Group Symposium*
- Nov, 2022      Recent memory, remote memory, and the hippocampus. **University of Delaware**, *Invited Job Talk*
- Oct, 2022      Making heads and tails of remote memory retrieval and the hippocampus. **Washington University in St. Louis**, *Brain, Behavior, and Cognition Brownbag Colloquium*
- Mar, 2022      Neural correlates of recent and remote memory retrieval. **National Institute of Mental Health**, *Intramural Research Program Investigators' Seminar Series*
- Dec, 2021      Multi-echo fMRI: Benefits, costs, and an example of what it can tell us about human cognition. **University of British Columbia**, *Multi-echo fMRI interest group*
- Oct, 2021      Hippocampal contributions to autobiographical recall. **Northeastern University**, *Center for Cognitive and Brain Health Fall Speaker Series*
- June, 2021      Do we need a hippocampus to recall autobiographical memories? **Furman University**, *Joint Putnam and Wamsley Lab Meeting*
- Apr, 2021      When do we need a hippocampus to recall autobiographical memories? **Washington University in St. Louis**, *WashU Neuroimaging Community (WUNiC) Special Seminar Series*
- Mar, 2021      Capturing the elements of episodic memories. **Douglas Research Centre**, *Cerebral Imaging Centre Lecture Series* (<https://www.youtube.com/watch?v=4D-DrTBsyjU>)
- Sept, 2020      Capturing the elements of episodic memories. **University of Virginia**, *Cognitive Area Brown Bag Series*
- Sept, 2020      Capturing elements of episodic memory. **Harvard University**, *Schacter Memory Lab Meeting*
- Apr, 2018      Task-general signatures of stimulus familiarity in parietal cortex. **University of Iowa**, *Cognitive Neuroscience Morning Meeting Series*
- Aug, 2017      Separating memory and attention effects in the parietal memory network. **Washington University in St. Louis**, *Memory and Cognition Lab Meeting*
- Jan, 2016      Identification and characterization of a novel parietal memory network using multiple MRI methods. **Washington University School of Medicine**, *Knight's Alzheimer Disease Research Center Seminar Series*
- Dec, 2015      Functional MRI reveals sparse neural systems that support diverse memory processes. **National Institute of Mental Health**, *Laboratory of Brain and Cognition Lab Meeting* [Talk given prior to joining the NIMH]

## **INVITED PANELS/ROUNDTABLE DISCUSSIONS**

- May, 2023 Careers outside academia. **Association for Psychological Science Annual Convention**, Washington, D.C.
- May, 2023 Student career networking event. **Association for Psychological Science Annual Convention**, Washington, D.C.
- Sept, 2017 Surviving the application & selection process to graduate programs. **National Institute of Mental Health**, Bethesda, MD.

## **NATIONAL/INTERNATIONAL CONFERENCE PRESENTATIONS (last 5 years; ‡: supervised mentee presenter)**

- Gilmore, A.W.**, Claudino, L., Levesque, C.M., Agron, A.M., Molfese, P.J., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (planned October, 2024). Associating BOLD repetition suppression, behavioral repetition priming, and repetition-related changes in EEG power during overt object naming. Society for Neuroscience Annual Meeting, Chicago, IL.
- Gilmore, A.W.**, Claudino, L., Levesque, C.M., Agron, A.M., Molfese, P.J., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (May, 2024). BOLD repetition suppression effects are associated with EEG power differences during repeat object naming. Rovereto Workshop on Concepts, Actions, and Objects (CAOS) Annual Meeting, Rovereto, TN, Italy.
- Gilmore, A.W.**, Claudino, L., Levesque, C.M., Agron, A.M., Molfese, P.J., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (April, 2024). BOLD repetition suppression effects are accompanied by EEG power differences during repeat object naming. Cognitive Neuroscience Society Annual Meeting, Toronto, Canada.
- Gilmore, A.W.**, Audrain, S., Wilson, J., Agron, A., Koller, A., Snow, J., & Martin, A. (Sept, 2023). Long-term retention of novel information learned by a profoundly amnesic patient in a natural environment. Memory Disorders Research Society Annual Meeting, Los Angeles, CA.
- Audrain, S., **Gilmore, A.W.**, Wilson, J., Agron, A., Koller, A., Snow, J., & Martin, A. (May, 2023). Long-term retention of information learned in a naturalistic environment in a patient with profound amnesia. Rovereto Workshop on Concepts, Actions, and Objects (CAOS) Annual Meeting, Rovereto, TN, Italy.
- Gilmore, A.W.**, Agron, A.M., Molfese, P.J., Claudino, L., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (May, 2023). Simultaneous EEG-fMRI as a means of understanding the relation between repetition priming and repetition suppression. Rovereto Workshop on Concepts, Actions, and Objects (CAOS) Annual Meeting, Rovereto, TN, Italy.
- Gilmore, A.W.**, Agron, A.M., Molfese, P.J., Claudino, L., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (March, 2023). Repetition suppression in BOLD fMRI co-localizes with evoked EEG power increases during repeat object naming. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- ‡Wilson, J.M., Audrain, S., **Gilmore, A.W.**, & Martin, A. (November, 2022). The role of the hippocampus in the construction of recent and remote autobiographical memories. Society for Neuroscience Annual Meeting Annual Meeting. San Diego, CA.
- Audrain, S., **Gilmore, A.W.**, Wilson, J.M., & Martin, A. (June, 2022). Elaborating on the role of the hippocampus in constructing remote autobiographical memories. Organization for Human Brain Mapping Annual Meeting. Glasgow, Scotland, UK.

Taylor, P., Gotts, S.J., **Gilmore, A.W.**, Teves, J., & Reynolds, R. (June, 2022). A multi-echo fMRI processing demo including TEDANA in afni\_proc.py pipelines. Organization for Human Brain Mapping Annual Meeting. Glasgow, Scotland, UK.

Koller, A.A., **Gilmore, A.W.**, Audrain, S., Gollomp, E., Hammoud, D., Agron, A.M., Wilson, J., Martin, A., & Snow, J. (June, 2022). A rare amnesic syndrome due to bilateral focal hippocampal lesions in a patient with secondary CNS lymphoma. American Academy of Clinical Neuropsychology Annual Conference. Minneapolis, MN.

**Gilmore, A.W.**, Agron, A., González-Araya, E.I., Gotts, S.J., & Martin, A. (November, 2021). Temporally graded hippocampal activity during naturalistic recall is observable after multi-echo, but not single-echo, fMRI preprocessing. Society for Neuroscience Annual Meeting. Virtual conference.

Reynolds, R.C., Gotts, S.J., **Gilmore, A.W.**, Glen, D.R., & Taylor, P. A. (June, 2021). Multiple ways to process multi-echo fMRI data with AFNI. Organization for Human Brain Mapping Annual Meeting. Virtual conference.

**Gilmore, A.W.** Evidence supporting a time-limited hippocampal role in autobiographical retrieval. (May, 2021). UC Irvine Center for the Neurobiology of Learning and Memory Virtual Spring Conference.

**Gilmore, A.W.**, Quach, A., Kalinowski, S.E., González-Araya, E., Gotts, S.J., Schacter, D.L., & Martin, A. (November, 2019). Memory recency modulates the neural correlates of overt autobiographical memory retrieval. Annual Meeting of the Psychonomic Society, Montreal, Quebec, Canada.

**Gilmore, A.W.**, Quach, A., Kalinowski, S.E., González-Araya, E., Gotts, S.J., Schacter, D.L., & Martin, A. (October, 2019). In-scanner spoken recall identifies dynamic, content-specific retrieval of autobiographical memories. Society for Neuroscience Annual Meeting, Chicago, IL.

‡Quach, A., **Gilmore, A.W.**, Kalinowski, S.E., González-Araya, E., Gotts, S.J., Schacter, D.L., & Martin, A. (October, 2019). Temporal distance modulates functional-anatomic correlates of overt autobiographical memory retrieval. Society for Neuroscience Annual Meeting, Chicago, IL.

**Gilmore, A.W.**, Quach, A., Kalinowski, S.E., Persichetti, A.S., Gotts, S.J., Schacter, D.L., & Martin, A. (March, 2019). Neural signatures of memory content and temporal distance identified using overt, in-scanner autobiographical memory retrieval. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

#### **LOCAL PRESENTATIONS (last 5 years; ‡ denotes supervised mentee presenter)**

‡Levesque, C.M., **Gilmore, A.W.**, Agron A.M., Molfese, P.J., Claudino, L., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (May, 2024). BOLD fMRI repetition suppression coincides with increases in evoked EEG power during repeat object naming task. National Institute of Mental Health Postbac Poster Day, Bethesda, MD.  
*Outstanding Poster Award winner (top 20% of postbac presentations)*

**Gilmore, A.W.**, Levesque, C.M., Agron A.M., Molfese, P.J., Claudino, L., Roopchansingh, V., Rugg, M.D., Gotts, S.J., & Martin, A. (Sept, 2023). Co-localization of BOLD repetition suppression in fMRI with evoked activity differences in EEG data during repeat overt object naming. NIMH IRP Fellows' Annual Scientific Training Day, Bethesda, MD.

Audrain, S., Avery, J., **Gilmore, A.W.**, Persichetti, A., & Martin, A. (Sept, 2023). New approaches for probing the functional architecture of the human brain. NIMH 75<sup>th</sup> Anniversary Celebration, Bethesda, MD.

**Gilmore, A.W.** & Audrain, S. (Oct, 2022). Recent memories, remote memories, and the hippocampus. Hippocampal Interest Group, Bethesda, MD.

‡Agron, A., **Gilmore, A.W.**, Molfese, P.J., Roopchansingh, V. Gotts, S.J., & Martin, A. (Sept, 2022). Repetition suppression and repetition priming: quantifying changes in human brain dynamics during repeat object naming using simultaneous fMRI-EEG. NIMH IRP Fellows' Annual Scientific Training Day, Bethesda, MD.

‡Agron, A., **Gilmore, A.W.**, Molfese, P.J., Roopchansingh, V. Gotts, S.J., & Martin, A. (April, 2022). Using simultaneous fMRI and EEG to investigate the relationship between repetition suppression and repetition priming. National Institute of Mental Health Postbac Poster Day, Bethesda, MD. *Outstanding Poster Award winner (top 20% of postbac presentations)*

Koller, A.A., **Gilmore, A.W.**, Audrain, S., Gollomp, E., Hammoud, D., Agron, A.M., Wilson, J., Martin, A., & Snow, J. (April, 2022). A rare amnesic syndrome due to bilateral focal hippocampal lesions in a patient with secondary CNS lymphoma. National Institute of Mental Health Postbac Poster Day, Bethesda, MD.

‡Wilson, J.M., Audrain, S., **Gilmore, A.W.**, & Martin, A. (April, 2022). The hippocampal role in construction of autobiographical memories over time. National Institute of Mental Health Postbac Poster Day, Bethesda, MD. *Outstanding Poster Award winner (top 20% of postbac presentations)*

Audrain, S., **Gilmore, A.W.**, Wilson, J.M., & Martin, A. (April, 2022). Elaborating on the role of the hippocampus in constructing remote autobiographical memories. National Institute of Mental Health Annual Julius Axelrod Symposium, Bethesda, MD.

‡Agron, A., **Gilmore, A.W.**, González-Araya, E.I., Quach, A., Gotts, S.J., & Martin, A. (April, 2021). A comparison of single- and multi-echo processing of fMRI data during overt autobiographical recall. National Institute of Mental Health Postbac Poster Day, Bethesda, MD.

‡González-Araya, E.I., **Gilmore, A.W.**, Quach, A., Kalinowski, S.E., Gotts, S.J., Schacter, D.L., & Martin, A. (September, 2020). Memory vividness does not account for temporally-graded hippocampal activity during episodic recall. NIMH IRP Fellows' Annual Scientific Training Day, Bethesda, MD.

**Gilmore, A.W.** (November, 2019). Neural signatures of memory recency during autobiographical recall. NIMH Fellows Afternoon Neuroscience Seminar, Bethesda, MD.

‡Bloomer, B., **Gilmore, A.W.**, Quach, A., Kalinowski, S.E., Gotts, S.J., & Martin, A. (August, 2019). Memory recency modulates posterior hippocampal contributions to autobiographical retrieval. NIH Summer Internship Program Summer Poster Day, Bethesda, MD.

‡Quach, A., **Gilmore, A.W.**, Kalinowski, S.E., Persichetti, A.S., Gotts, S.J., Schacter, D.L., & Martin, A. (May, 2019). Temporal distance modulates neural correlates of overt autobiographical memory retrieval. National Institute of Mental Health Postbac Poster Day, Bethesda, MD. *Outstanding Poster Award winner (top 20% of postbac presentations)*

## **TEACHING EXPERIENCE**

Fall 2024      **Course instructor**, *General Psychology (PSYC100)*  
University of Delaware

Fall 2022      **Guest lecturer**, *First-Year Seminar for Graduate Students*  
Washington University in St. Louis

- Spring 2022 **Guest lecturer**, *Neuropsychology Practicum Seminar*  
National Institute of Mental Health, NIH
- Fall 2014 **Guest lecturer**, *First-Year Seminar for Graduate Students*  
Washington University in St. Louis
- Spring 2014 **Graduate teaching assistant**, *Developmental Psychology*  
Washington University in St. Louis
- Summer 2012 **Guest lecturer**, *Human Learning and Memory*  
Washington University in St. Louis
- Fall 2011 **Graduate teaching assistant**, *Human Learning and Memory*  
Washington University in St. Louis

### **ADVISING AND MENTORING, UNIVERSITY OF DELAWARE**

2024 - present Heaven Dixon, Bridge scholar, Department of Psychological and Brain Sciences

### **ADVISING AND MENTORING, NATIONAL INSTITUTE OF MENTAL HEALTH**

- 2023 – present Cassandra Levesque, Post-baccalaureate Intramural Research Training Award Fellow
- 2022 – 2023 Jenna Wilson, Post-baccalaureate Intramural Research Training Award Fellow
- 2020 – 2023 Anna Agron, Post-baccalaureate Intramural Research Training Award Fellow
- 2019 – 2021 Estefanía González-Araya, Post-baccalaureate Intramural Research Training Award Fellow
- 2019 Bess Bloomer, Summer Internship Program Student
- 2018 – 2020 Alina Quach, Post-baccalaureate Intramural Research Training Award Fellow
- 2016 – 2018 Sarah Kalinowski, Post-baccalaureate Intramural Research Training Award Fellow

### **ADVISING AND MENTORING, WASHINGTON UNIVERSITY IN ST. LOUIS**

- 2014 – 2016 Ruth Shaffer, Undergraduate Research Assistant
- 2014 – 2015 Shaun Ee, Undergraduate Research Assistant
- 2014 – 2015 Steven Westburg, Undergraduate Research Assistant
- 2013 Alexa Profozich, Undergraduate Research Assistant
- 2012 Rohan Mathur, Undergraduate Research Assistant

### **THESIS AND QUALIFYING EXAM COMMITTEES, UNIVERSITY OF DELAWARE**

2024 Josiane Mukahirwa (Qualifying Exam Committee, Psychological and Brain Sciences)

### **DEPARTMENT & INSTITUTIONAL SERVICE**

- 2022 Judge, Graduate Student Research Symposium, NIH
- 2021 – 2022 Judge, Fellows Award for Research Excellence, NIH
- 2020 – 2022 Judge, NIH Postbac Poster Day, NIH
- 2011 – 2016 Graduate student representative, Department of Psychological and Brain Sciences  
Colloquium Committee, Washington University in St. Louis
- 2011 – 2013 Community outreach volunteer at St. Louis Science Center, Cognitive, Computational,  
and Systems Neuroscience program, Washington University in St. Louis
- 2011 – 2012 Graduate student peer mentor, Washington University in St. Louis

## **GRANT AND FELLOWSHIP REVIEWING**

2024 Cognitive Neuroscience FY 2024 Review Panelist, NSF  
2023 Reviewer, NSF  
2021 Reviewer, NSF

## **EDITORIAL DUTIES**

2021 – present Associate Editor, *Frontiers in Aging Neuroscience*  
2022 – present Reviewing Editor, *Frontiers in Neuroscience*  
2022 – present Reviewing Editor, *Frontiers in Neuroimaging*

## **AD HOC REVIEWING (34 journals)**

*Behaviour and Brain Research* ♦ *Brain and Behavior* ♦ *Brain and Cognition* ♦ *Cerebral Cortex* ♦ *Cognition* ♦ *Communications Psychology* ♦ *Current Biology* ♦ *eLife* ♦ *Frontiers in Aging Neuroscience* ♦ *Frontiers in Human Neuroscience* ♦ *Frontiers in Neuroimaging* ♦ *Frontiers in Neuroscience* ♦ *Frontiers in Psychology* ♦ *Human Brain Mapping* ♦ *Imaging Neuroscience* ♦ *International Journal of Biomedical Imaging* ♦ *Journal of Cognitive Neuroscience* ♦ *Journal of Experimental Psychology: Learning, Memory, & Cognition* ♦ *Journal of Neurophysiology* ♦ *Journal of Neuroscience* ♦ *Learning & Memory* ♦ *Nature Communications* ♦ *Nature Human Behavior* ♦ *Network Neuroscience* ♦ *Neurobiology of Aging* ♦ *Neurobiology of Learning and Memory* ♦ *NeuroImage* ♦ *Neuropsychologia* ♦ *Neuropsychological Review* ♦ *PLOS ONE* ♦ *PNAS* ♦ *Scientific Reports* ♦ *Trends in Neurosciences* ♦ *Wiley Interdisciplinary Reviews (WIREs) Cognitive Science*

## **PROFESSIONAL MEMBERSHIPS**

Association for Psychological Science ♦ Cognitive Neuroscience Society ♦ Memory Disorders Research Society ♦ Psychonomic Society ♦ Society for Neuroscience

## **PRESS COVERAGE**

2021 [The time-limited role of the hippocampus in memory retrieval](#)  
Elisa Guma, *BrainPost*

2015 [Newly discovered brain network recognizes what's new, what's familiar](#)  
Gerry Everding, Washington University's *The Source* (reprinted by *Neuroscience News*)