

EDUCATION

Ph.D. candidate in Psychology (Cognitive Neuroscience) University of Oregon – Advisor: <i>Brice Kuhl</i>	2018–Present Eugene, OR
M.S. in Psychology; Specialization in Data Science University of Oregon	2018–2021 Eugene, OR
B.S. in Psychology and Neurobiology with Distinction University of Wisconsin-Madison – Senior Thesis Advisor: <i>Bradley Postle</i>	2012–2016 Madison, WI

RESEARCH EXPERIENCE

Research Assistant, Mormino Lab Neurology Department, Stanford University – PI: <i>Elizabeth Mormino</i>	10/2017–08/2018 Stanford, CA
Research Assistant, Stanford Memory Lab Psychology Department, Stanford University – PI: <i>Anthony Wagner</i>	10/2016–08/2018 Stanford, CA
Undergraduate Research Assistant, PostLab Departments of Psychology and Psychiatry, UW-Madison – PI: <i>Bradley Postle</i>	01/2015–08/2016 Madison, WI
Undergraduate Research Assistant, WNPRC Wisconsin National Primate Research Center, Department of Pediatrics, UW-Madison – PI: <i>Ei Terasawa</i>	04/2014–08/2016 Madison, WI

AWARDS AND HONORS

NIH NRSA Individual Predoctoral Fellowships (FNS126016A) <i>Remapping of episodic memories in the human hippocampus.</i> \$41,726 total direct costs awarded.	2022–2025
Promising Scholar Award <i>University of Oregon.</i> \$6,000 awarded.	2016
First Year Merit Award <i>University of Oregon.</i> \$4,000 awarded.	2016
Undergraduate Research Scholar Award <i>University of Wisconsin-Madison.</i>	2016
Dean's Lists (7 semesters) <i>University of Wisconsin-Madison.</i>	2012–2016

PUBLICATIONS

1. **Guo Wanjia**, Serra E Favila, Ghootae Kim, Robert J Molitor, and Brice A Kuhl (2021). Abrupt Hippocampal Remapping Signals Resolution of Memory Interference. *Nature Communications* 12 (1): 4816.
2. Alexandra N Trelle, Valerie A Carr, Edward N Wilson, Michelle S Swarovski, Madison P Hunt, Tyler N Toueg, Tammy T Tran, Divya Channappa, Nicole K Corso, Monica K Thieu, Manasi Jayakumar, Ayesha Nadiadwala, **Wanjia Guo**, Natalie J Tanner, Jeffrey D Bernstein, Celia P Litovsky, Scott A Guerin, Anna M Khazenzon, Marc B Harrison, Brian K Rutt, Gayle K Deutsch, Frederick T Chin, Guido A Davidzon, Jacob N Hall, J Sha Sharon, Carolyn A Fredericks, Katrin I Andreasson, Geoffrey A Kerchner, Anthony D Wagner, Elizabeth C Mormino (2021). Association of CSF biomarkers with hippocampal-dependent memory in preclinical Alzheimer disease. *Neurology*.
3. Elizabeth C Mormino, Tyler N Toueg, Carmen Azevedo, Jessica B Castillo, **Wanjia Guo**, Ayesha Nadiadwala, Nicole K Corso, Jacob N Hall, Audrey Fan, Alexandra N Trelle, Marc B Harrison, Madison P Hunt, J Sha Sharon, Gayle Deutsch, Michelle James, Carolyn A Fredericks, Mary Ellen Koran, Michael Zeineh, Kathleen Poston, Michael D Greicius, Mehdi Khalighi, Guido A Davidzon, Bin Shen, Greg Zaharchuk, Anthony D Wagner, Frederick T Chin (2020). Tau PET imaging with 18 F-PI-2620 in aging and neurodegenerative diseases. *European Journal of Nuclear Medicine and Molecular Imaging*, 1-12.
4. Alexandra N Trelle, Valerie A Carr, Scott A Guerin, Monica K Thieu, Manasi Jayakumar, **Wanjia Guo**, Ayesha Nadiadwala, Nicole K Corso, Madison P Hunt, Celia P Litovsky, Natalie J Tanner, Gayle K Deutsch, Jeffrey D Bernstein, Marc B Harrison, Anna M Khazenzon, Jiefeng Jiang, J Sha Sharon, Carolyn A Fredericks, Brian K Rutt, Elizabeth C Mormino, Geoffrey A Kerchner, Anthony D Wagner (2020). Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults. *Elife*, 9, e55335.
5. Jiefeng Jiang, Shao-Fang Wang, **Wanjia Guo**, Corey Fernandez, Anthony D Wagner (2020). Prefrontal reinstatement of contextual task demand is predicted by separable hippocampal patterns. *Nature Communications*, 11(1), 1-12.

CONFERENCE PRESENTATIONS

1. **Guo, W.**, Molitor, R., Favila, S. E., Kuhl, B. A. (2020). Repulsion of hippocampal representations is time-locked to resolution of memory interference. 2020 CNS virtual meeting.
2. **Guo, W.**, Kim, G., Favila, S. E., Kuhl, B. A. (2019). Repulsion of competing hippocampal representations parallels learning-related reductions in memory interference. 2019 annual meeting of the SfN, Chicago, IL.
3. Jiang, J., Wang, S. F., **Guo, W.**, Wagner, A. (2019). Prefrontal reinstatement of contextual task demand is mediated by repulsion in hippocampal activity patterns between contexts. 2019 annual meeting of the SfN, Chicago, IL.
4. Harrison, M., Carr, V.A., Corsol, N., Deutsch, G., Fredericks, C., Guerin, S., **Guo, W.**, Hunt, M., Jayakumar, M., Jiang, J., Kerchner, G., Khazenzon, A., Litovsky, C., Mormino, E. C., Nadiadwala, A., Sha, S., Tanner, N., Thieu, M., Trelle, A.N., Wagner, A. D. (2019). Individual differences in neural differentiation during episodic encoding predict associative retrieval in putatively healthy older adults. 2019 annual meeting of the SfN, Chicago, IL.
5. Harrison, M., Carr, V.A., Fredericks, C., **Guo, W.**, Jayakumar, M., Kerchner, G., Mormino, E. C., Thieu, M., Trelle, A.N., Wagner, A. D. (2019). Individual differences in neural pattern similarity during encoding relate to memory performance in putatively healthy older adults. Dallas Aging and Cognition Conference, Dallas, TX.
6. Trelle, A.N., Carr, V.A., Fredericks, C., **Guo, W.**, Jayakumar, M., Harrison, M., Kerchner, G., Mormino, E. C., Thieu, M., Wagner, A. D. (2019). Cortical differentiation, hippocampal integrity, and amyloid burden are linked to individual differences in episodic memory decline with age. Dallas Aging and Cognition Conference, Dallas, TX.
7. Mormino, E.C., **Guo, W.**, Nadiadwala, A., Hall, J., Trelle, A. N., Sha, S., Fredericks, C. A., Greicius, M. D., Srinivas, S. M., James, M. L., Zaharchuk, G., Wagner, A. D., Chin, F. T. (2018). Tau PET imaging with PI2620 in aging and Alzheimer's disease. 2018 annual meeting of the SfN, San Diego, CA.
8. Jiang, J., Wang, S. F., **Guo, W.**, Wagner, A. (2018). Context-cued Predictions of Task Demands Facilitate Perceptual Decisions in Virtual Environments. 2018 annual meeting of the SfN, San Diego, CA.

9. Mormino, E.C., Nadiadwala, A., Azevedo, C., **Guo, W.**, Hall, J., Trelle, A. N., Sha, S., Fredericks, C. A., Greicius, M. D., Srinivas, S. M., James, M. L., Zaharchuk, G., Wagner, A. D., Chin, F. T. (2018). Tau PET imaging with PI2620 in aging and Alzheimer's disease. AAIC 2018, Chicago, IL.
10. Trelle, A.N., Bernstein, J., Harrison, M., Carr, V.A., Fredericks, C., Guerin, S., **Guo, W.**, Jayakumar, M., Jiang, J., Kerchner, G., Khazenzon, A., Litovsky, C., Mormino, E. C., Nadiadwala, A., Sha, S., Tanner, N., Thieu, M., Wagner, A. D. (2018). The Contribution of Early Alzheimer's Disease Markers to Individual Differences in Episodic Memory in Cognitively Normal Older Adults. AAIC 2018, Chicago, IL.
11. Trelle, A., Carr, V. A., Guerin, S., **Guo, W.**, Harrison, M. B., Jayakumar, M., Jiang, J., Kerchner, G., Momino, E. C., Tanner, N., Thieu, M., Wagner, A.D. (2018). Parietal and occipitotemporal cortical reinstatement differentially predict successful associative memory retrieval in older adults. Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.
12. Trelle, A.N., Bernstein, J., Carr, V.A., Fredericks, C., Guerin, S., **Guo, W.**, Jayakumar, M., Jiang, J., Kerchner, G., Khazenzon, A., Litovsky, C., Sha, S., Thieu, M., Wagner, A. D. (2018). Cortical representations during memory encoding and retrieval predict successful associative memory retrieval in healthy older adults. International Conference on Learning & Memory at UC Irvine, Huntington Beach, CA.
13. Trelle, A.N., Bernstein, J., Carr, V.A., Fredericks, C., Guerin, S., **Guo, W.**, Jayakumar, M., Jiang, J., Kerchner, G., Khazenzon, A., Litovsky, C., Sha, S., Thieu, M., Wagner, A. D. (2017). Cortical and hippocampal predictors of individual differences in episodic memory in putatively healthy older adults. 2017 annual meeting of the SfN, Washington DC.
14. **Guo, W.**, Kenealy, B., Terasawa, E. (2016). The role of MKRN3 in puberty: use of a high molecular cut off microdialysis probe. Undergraduate Symposium, University of Wisconsin-Madison, WI.
15. **Guo, W.**, Kenealy, B., Terasawa, E. (2015). The possible relationship among GnRH, MKRN3, and puberty. Undergraduate Symposium, University of Wisconsin-Madison, WI.

TEACHING

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| • Lab instructor at the University of Oregon
<i>Graduate Data Analysis II (PSY612)</i> | Winter 2022 |
| • Teaching Assistant at the University of Oregon
<i>Learning and Memory (PSY433)</i> | Fall 2020 |
| • Teaching Assistant at Neuromatch Academy Summer School
<i>Online School for Computational Neuroscience</i> | Summer 2020 |
| • Lab instructor at the University of Oregon
<i>Statistical Methods (PSY302)</i> | Winter 2019 |

PROFESSIONAL AFFILIATIONS

- Cognitive Neuroscience Society
- Society for Neuroscience