Wanjia Guo

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Education

Ph.D. in Psychology (Cognitive Neuroscience) 2018–2024
University of Oregon Eugene, OR
- Advisor: *Dr.Brice Kuhl*

M.S. in Psychology; Specialization in Data Science 2018–2021
University of Oregon Eugene, OR

B.S. in Psychology and Neurobiology with Distinction 2012–2016
University of Wisconsin-Madison Madison, WI
- Senior Thesis Advisor: *Dr.Bradley Postle*

Employment

Postdoctoral Research Associate 07/2025–Present
Princeton Neuroscience Institute, Princeton University Princeton, NJ
- PI: *Dr.Ken Norman*

Applied Scientist, Amazon 09/2024–06/2025
Alexa AI-Domain Boston, MA

Research Assistant, Mormino Lab 10/2017–08/2018
Neurology Department, Stanford University Stanford, CA
- PI: *Dr.Elizabeth Mormino*

Research Assistant, Stanford Memory Lab 10/2016–08/2018
Psychology Department, Stanford University Stanford, CA
- PI: *Dr.Anthony Wagner*

Undergraduate Research Assistant, PostLab 01/2015–08/2016
Departments of Psychology and Psychiatry, UW-Madison Madison, WI
- PI: *Dr.Bradley Postle*

Awards and Honors

NIH NRSA Individual Predoctoral Fellowships (FNS126016A) 2022–2024
Remapping of episodic memories in the human hippocampus. $163,437 total direct costs awarded.

Promising Scholar Award 2016
University of Oregon. $6,000 awarded.

First Year Merit Award 2016
University of Oregon. $4,000 awarded.

Undergraduate Research Scholar Award 2016
University of Wisconsin-Madison.

Publications

1. **Guo Wanjia**, Subin Han, and Brice A Kuhl (under revision). Repulsion of hippocampal representations driven by distinct internal beliefs.

2. Futing Zou, **Guo Wanjia**, Emily J Allen, Yihan Wu, Ian Charest, Thomas Naselaris, Kendrick Kay, Brice A Kuhl, J Benjamin Hutchinson, Sarah DuBrow (2023). Re-expression of CA1 and entorhinal activity patterns preserves temporal context memory at long timescales. *Nature communications 14.1: 4350.*

3. **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.*

4. 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, 96(10), e1470-e1481.*

5. 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.*

6. 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.*

7. 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.*

First Author Presentations

1. **Guo, W.** (2024). Hippocampal repulsion is driven by internal beliefs. Talk at Princeton Computational Memory Lab, Princeton, NJ.

2. **Guo, W.**, Han, S., Kuhl, B. A. (2023). Activity patterns in CA3/dentate gyrus diverge when spatial routes were most similar. 2023 annual meeting of the SfN, Washington D.C.

3. **Guo, W.**, Han, S., Kuhl, B. A. (2023). Hippocampal repulsion is driven by internal beliefs. LEARNMEM 2023, Huntington Beach, CA.

4. **Guo, W.**, Han, S., Kuhl, B. A. (2022). Hippocampal repulsion is driven by internal beliefs. 2022 annual meeting of the SfN, San Diego, CA.

5. **Guo, W.** (2021). Abrupt hippocampal remapping signals resolution of memory interference. Talk at the Jiang Lab for Adaptive Behavior, Iowa City, IA

6. **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.

7. **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.

Teaching

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