Wanjia Guo

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Education

University of Oregon — Eugene, OR
Graduate Student in Psychology, Cognitive Neuroscience Area — 2018–Present
- Advisor: *Brice Kuhl*

University of Wisconsin-Madison — Madison, WI
B.S. in Psychology and Neurobiology with honors — 2012–2016
- Advisor: *Bradley Postle*

Research Experience

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

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

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

Undergraduate Research Assistant, Wisconsin National Primate Research Center — Madison, WI
Department of Pediatrics, UW-Madison — 04/2014–08/2016
- PI: *Ei Terasawa*

Publications

1. **Wanjia Guo**, Serra E Favila, Ghootae Kim, Robert Molitor, & Brice A Kuhl (Submitted). Abrupt remapping in human CA3/dentate gyrus signals resolution of memory interference.

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 contexual 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 amzyloid 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

- **Teaching Assistant** at 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 University of Oregon — Winter 2019
  Statistical Methods (PSY302)

Scholarships and Awards

- Promising Scholar Award — 2018
- Undergraduate Research Scholar Award — 2016
- Dean's Lists (7 semesters) — 2012–2016

Professional Affiliations

- Cognitive Neuroscience Society
- Society for Neuroscience