

# WANJIA GUO

Updated on Feb 2020  
Lewis Integrative Science Building, Room 348  
Eugene, OR, 97401  
Email: [wanjiag@uoregon.edu](mailto:wanjiag@uoregon.edu)

## Education:

- 09/2018–Present Graduate Student, Psychology (Cognitive Neuroscience), University of Oregon  
Advisor: **Brice Kuhl**
- 08/2012–08/2016 B.S., Neurobiology & Psychology with honors, University of Wisconsin-Madison  
Advisor: **Bradley Postle**

## Research Experience:

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

## Publications:

Jiefeng Jiang, Shao-Fang Wang, **Wanjia Guo**, Corey A. Fernadez, & Anthony D. Wagner. Prefrontal reinstatement of contextual task demand is mediated by separable hippocampal patterns. (Submitted).

Elizabeth C. Mormino, Tyler Toueg, Carmen Azevedo, Jessa B. Castillo, **Wanjia Guo**, Ayesha Nadiadwala, Nicole Corso, Jacob N. Hall, Alexandra N. Trelle, Marc Harrison, Sharon Sha, 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. Tau PET imaging with 18F-PI2620 in aging and neurodegenerative diseases. (Submitted).

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, Sharon J. Sha, Carolyn A. Fredericks, Brian K. Rutt, Elizabeth C. Mormino, Geoffrey A. Kerchner, Anthony D. Wagner. Who, when, and why older adults remember: Hippocampal and cortical mechanisms predict episodic retrieval. (Submitted)

## **Conference Presentations:**

**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.

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.

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.

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.

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.

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.

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.

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.

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.

Trelle, A., Carr, V. A., Guerin, S., **Guo, W.**, Harrison, M. B., Jayakumar, M., Jiang, J., Kerchner, G., Mormino, 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.

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.

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.

**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.

**Guo, W.**, Kenealy, B., Terasawa, E. (2015). The possible relationship among GnRH, MKRN3, and puberty. *Undergraduate Symposium*, University of Wisconsin-Madison, WI.

### **Teaching:**

2019 Winter                      Teaching Assistant. PSY 302 Statistical Methods.  
3 weekly lab sessions. University of Oregon.

### **Awards and Honors:**

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

### **Professional Affiliations:**

Cognitive Neuroscience Society  
Society for Neuroscience