

WANJIA GUO

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Lewis Integrative Science Building, Room 348
Eugene, OR, 97401
Email: 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:

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, Sharon J. 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 (2020). Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases. *European Journal of Nuclear Medicine and Molecular Imaging*.

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 (2020). Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults. *Elife*, 9, e55335.

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:

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.

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:

2020 Fall Teaching Assistant. PSY 433 Learning and memory. University of Oregon.

2020 Summer Teaching Assistant. Neuromatch Academy summer school.

2019 Winter Lab instructor. PSY 302 Statistical Methods. 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