

Qihong Lu

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Education

- 2017-present **Ph.D.**, Psychology, Princeton University.
Advisors: Ken Norman, Uri Hasson
- 2013-2017 **B.S.**, Psychology & Mathematics, University of Wisconsin-Madison.
Comprehensive Honors; Certificate in Computer Science
Advisor: Tim Rogers

Research Experience

- 2017-present **Princeton Computational Memory Lab**, Princeton University.
P.I.: Ken Norman
- 2017-present **Hasson Lab**, Princeton University.
P.I.: Uri Hasson
- 2014-2017 **Knowledge and Concepts Lab**, UW-Madison.
P.I.: Tim Rogers
- Summer 2015 & 2016 **The Parallel Distributed Processing Lab**, Stanford University.
P.I.: Jay McClelland
- 2015 **Lupyan Lab**, UW-Madison.
P.I.: Gary Lupyan
- 2013-2015 **Language and Cognitive Neuroscience Lab**, UW-Madison.
P.I.: Maryellen MacDonald & Mark Seidenberg

Conference Presentations

- Lu, Q., Chen, P. H., Pillow, J. W., Ramadge, P. J., Norman, K. A., & Hasson, U. (2018). Shared Representational Geometry Across Neural Networks. Workshop on Integration of Deep Learning Theories, 32nd Conference on Neural Information Processing Systems Montréal, Canada.
- Kumar, M., Ellis, C. T., Lu, Q., Zhang, H., Ramadge P. J., Norman, K. A., & Turk-Browne N. B. (2018). BrainIAK education: user-friendly tutorials for advanced, computationally-intensive fMRI analysis. Poster presented at the 48th Annual Meeting of the Society for Neuroscience, San Diego, CA, USA.
- Lu, Q., Hasson, U., & Norman, K. A. (2018). Modeling hippocampal-cortical dynamics during event processing. The Conference on Cognitive Computational Neuroscience, Philadelphia, PA, USA.
- Yu, J. Lu, Q., Hasson, U., Norman, K. A., & Pillow, J. W. (2018). Performance optimization is insufficient for building accurate models for neural representation. The Conference on Cognitive Computational Neuroscience, Philadelphia, PA, USA.
- Chen, C., Lu, Q., Beukers, A. Baldassano, C., & Norman, K.A. (2018). Generalized schema learning

by neural networks. The Conference on Cognitive Computational Neuroscience, Philadelphia, PA, USA.

- Lu, Q., Ramadge, P., Norman, K. A. & Hasson, U. (2018). Measuring representational similarity across neural networks. Poster to be presented at the 40th Annual Meeting of the Cognitive Science Society, Madison, WI, USA.
- Lu, Q., & Rogers, T. T. (2016). An interactive model accounts for both ultra-rapid superordinate classification and basic-level advantage in object recognition. Poster presented at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA, USA.
- Lu, Q., & McClelland, J. L. (2016). Teaching a neural network to count: reinforcement learning with “social scaffolding”. Poster presented at the 15th Neural Computation and Psychology Workshop, Philadelphia, PA, USA.
- Cox, C. R., Lu, Q., & Rogers, T. T. (2015). Iterative Lasso: An even-handed approach to whole brain multivariate pattern analysis. Poster presented at the 22nd Cognitive Neuroscience Society annual conference, San Francisco, CA, USA.
- Cox, C. R., Lu, Q., & Rogers, T. T. (2015). Iterative Lasso: An even-handed approach to whole brain multivariate pattern analysis. Poster presented at the Neuroimaging, Computational Neuroscience and Neuroengineering Workshop, Madison, WI, USA.

■ Papers

- Chen, C., Lu, Q., Beukers, A., Baldassano, C., & Norman, K. A. (arXiv). Learning to apply schematic knowledge to novel instances.
- McClelland, J. L., Mickey, K., Hansen, S., Yuan, X., & Lu, Q. (2016). A Parallel-Distributed Processing Approach to Mathematical Cognition. Manuscript, Stanford University.

■ Teaching

- Spring 2018 NEU 350 Laboratory in Principles of Neuroscience .
TA; Prof: Alan Gelperin & Anthony Ambrosini; 2-week fMRI lab; Princeton
- Fall 2018 ELE|NEU|PSY 480 fMRI Decoding: Reading Minds Using Brain Scans.
TA; Prof: Ken Norman & Peter Ramadge; Princeton

■ Undergraduate Research Mentoring

- 2016 Molly Ryan, UW-Madison. Assessing the localization of motion representation in the brain.
- 2017-2018 Catherine Chen, Princeton. Learning the Schematic Structure of a World: Contextual Understanding of Stochastically Generated Stories in Neural Networks.
- Summer 2018 Noam Miller, Princeton. Leabra7: A Python Software for Modeling Hippocampal-Cortical Interactions in Learning.

■ Service

- 2013-2014 **Tutor**, Greater University Tutoring Service, UW-Madison.
- 2014-2017 **Student representative**, Faculty Honors Committee, UW-Madison.
- 2018-present **Organizer**, The Parallel Distributed Processing (PDP) meeting, Princeton.
- 2018-present **Code review**, BrainIAK (Brain Imaging Analysis Kit), PNI-Intel collaboration.

Professional Affiliations

member Cognitive Science Society, Society for Neuroscience
review ReScience

Honors & Awards

2018 **Charles W. Lummis Scholarship**, Princeton.
2017 **College of Letters & Science Dean's Prize**, UW-Madison.
2017 **Undergraduate Academic Achievement Award**, UW-Madison.
2017 **Outstanding Undergraduate Research Scholar Award**, UW-Madison.
2016 **David H. Durra Scholarship**, UW-Madison.
2016 **Undergraduate Travel Awards**, UW-Madison.
2015 **Phi Beta Kappa as a junior**, UW-Madison.
2015 **Hilldale Undergraduate Research Fellowship**, UW-Madison.
2015 **Bromley Research Conference Travel Grant**, UW-Madison.
2015 **CSLI Summer Research Internship**, Stanford.
2014, 2015 **Undergraduate Research Scholar Award**, UW-Madison.
2014 **International Undergraduate Writing Contest 3rd Place**, UW-Madison.
2014 **Margaret E. and Allard Smith Scholarship**, UW-Madison.
2014 **Welton Summer Sophomore Research Grant**, UW-Madison.