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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

Summer 2013 **Laboratory of Neural Coding**, Shanghai Key Lab of Brain Functional Genomics.
P.I.: Longnian Lin

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.
High achieving student in physical sciences or mathematics.

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.
Nominated by Dr.Maryellen MacDonald & Dr.Timothy Rogers

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.

Conference Presentations

Lu, Q., Hasson, U., & Norman, K. A. (2018). Modeling hippocampal-cortical dynamics during event processing. The Conference on Cognitive Computational Neuroscience, Philadelphia, PA.

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.

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.

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.

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.

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.

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.

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.

Papers

Lu, Q., Cox, C., Takahashi R., Lambon Ralph, M., & Rogers, T. T. (manuscript in preparation). An interactive account for human vision: a recurrent neural network explains neural and behavioral temporal dynamics of object recognition processes.

Wang, T., **Lu, Q.** & Seidenberg, M.S. (submitted). The role of transitional probability in reading Chinese.

McClelland, J. L., Mickey, K., Hansen, S., Yuan, X., & **Lu, Q.** (2016). A Parallel-Distributed Processing Approach to Mathematical Cognition. Manuscript, Stanford University, February 18, 2016.

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

2014-2017 **Student Representative**, Faculty Honors Committee, UW-Madison.

- Involved in i) formulating academic policies and curriculum for the Letters & Science Honors program; ii) reviewing scholarship and research grant applications.

2018-present **Organizer**, The Parallel Distributed Processing meeting, Princeton.

Professional Affiliations

Society for Neuroscience

Cognitive Science Society

Cognitive Neuroscience Society

ReScience, ad hoc review