

# Qihong Lu

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📄 [qihongl.github.io](https://qihongl.github.io)

## Education

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

## Undergraduate Research Experience

- 2014-2017 **Knowledge and Concepts Lab**, UW-Madison.  
P.I.: Tim Rogers
- Summer 2015 **The Parallel Distributed Processing Lab**, Stanford University.  
& 2016 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

## Extracurricular Activities

- 2014-2017 **Student Representative**, Faculty Honors Committee, UW-Madison.
  - Discussing and revising academic policies and curriculum for the Honors program.
  - Reviewing scholarship and research grant applications.
- 2013-2014 **Tutor**, Greater University Tutoring Service, UW-Madison.
  - Taught Calculus I/II and Introductory Biology.

## Honors & Awards

- 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 3<sup>rd</sup> Place**, UW-Madison.
- 2014 **Margaret E. and Allard Smith Scholarship**, UW-Madison.
- 2014 **Welton Summer Sophomore Research Grant**, UW-Madison.

## Papers

- Lu, Q.**, Cox, C., Rogers, T. T., Lambon Ralph, M., & Takahashi R. (manuscript in preparation). An interactive account for human vision: a recurrent neural network explains neural and behavioral temporal dynamics of object recognition processes.
- McClelland, J. L., Mickey, K., Hansen, S., Yuan, X., & **Lu, Q.** (manuscript in preparation). A Parallel-Distributed Processing Approach to Mathematical Cognition.
- Wang, T., **Lu, Q.** & Seidenberg, M.S. (submitted). The role of transitional probability in reading Chinese.

## Posters

- 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 38<sup>th</sup> 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 15<sup>th</sup> 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 22<sup>nd</sup> 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.

## Talks

- Lu, Q.**, & Rogers, T. T. (2016). A recurrent neural network for object recognition. Talk delivered at UW-Madison Senior Honors Thesis Symposium, Madison, WI.
- Lu, Q.**, & McClelland, J.L. (2015). Teaching a PDP model to count. Talk delivered at Stanford Center of Study of Language and Information Summer Research Program Final Presentation, Stanford, CA.

## Technical Skills

Matlab, Python, R, Java, GitHub, LENS,  $\text{\LaTeX}$

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## Undergraduate Mentoring

- 2016 Molly Ryan, UW-Madison. Assessing the localization of motion representation in the brain

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## Professional Affiliations

Society for Neuroscience  
Cognitive Science Society  
Cognitive Neuroscience Society  
ReScience, ad hoc review

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## Workshops Attended

- 2017 **Mixed Model Workshop**, Princeton.  
2017 **Data Carpentry Workshop**, UW-Madison.  
2016 **Contemporary Deep Neural Network Models**, the 38<sup>th</sup> CogSci workshop.  
2015 **Quantum Models of Cognition and Decision**, the 37<sup>th</sup> CogSci workshop.  
2014 **Growth Curve Analysis of Longitudinal Data**, UW-Madison.

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## Online Course Certificates

- 2017 **Structuring Machine Learning Projects**, deeplearning.ai.  
2017 **Hyperparameter tuning, Regularization and Optimization**, deeplearning.ai.  
2017 **Neural Networks and Deep Learning**, deeplearning.ai.  
2017 **Principles of fMRI 1**, *Coursera*, Johns Hopkins & Colorado Boulder.  
2016 **Statistical Learning**, Stanford Online.  
2016 **Build a Computer from 1<sup>st</sup> Principles**, *Coursera*, Hebrew University of Jerusalem.  
2015 **The Brain and Space**, *Coursera*, Duke University.  
2014 **Machine Learning**, *Coursera*, Stanford University.  
2014 **Fundamentals of Neuroscience I**, *edX*, Harvard University.  
2014 **Introduction to Dynamical System and Chaos**, Santa Fe Institute.  
2014 **Introduction to Complexity**, Santa Fe Institute.  
2014 **Moralities of Everyday Life**, *Coursera*, Yale University.  
2014 **Statistical Analysis of fMRI Data**, *Coursera*, Johns Hopkins University.  
2014 **Justice**, *edX*, Harvard University.  
2014 **Intro to Computer Science & Programming Using Python**, *Coursera*, MIT.  
2013 **Behavioral Economics in Action**, *edX*, University of Toronto.  
2013 **Model Thinking**, *Coursera*, University of Michigan.

(Certificates available upon request)