

# Qihong Lu

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Personal webpage: <https://qihongl.github.io/>

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## Education

2013–2017 **B.S.**, University of Wisconsin-Madison, Madison, WI, U.S.A..  
Major in Psychology & Mathematics, Minor in Computer Science  
Comprehensive Honors

## Research Experience

2014–present **Research Assistant**, Knowledge and Concepts Lab.  
P.I.: Dr. Timothy Rogers, UW-Madison

Summer 2015 **Visiting Researcher**, The Parallel Distributed Processing Lab.  
& 2016 P.I.: Dr. James McClelland, Stanford University

2013–2015 **Research Assistant**, Language and Cognitive Neuroscience Lab.  
P.I.: Dr. Maryellen MacDonald & Dr. Mark Seidenberg, UW-Madison

2015 **Research Assistant**, Lupyan Lab.  
P.I.: Dr. Gary Lupyan, UW-Madison

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

## Extracurricular Activities

2014–present **Student Representative**, Letter & Science Faculty Honors Committee.

- Discussing and revising academic policies and curriculum for the Honors program.
- Reviewing scholarship and research grant applications.

2013–2015 **Social Science Chair**,  $\text{IV} \cdot \Omega$  Academic Society.

- Organized social science mini-lectures; presented recent advances in social science.

2013–2014 **Tutor**, Greater University Tutoring Service.

- Taught Calculus I/II and Introductory Biology.

## Honors & Awards

2016 **David H. Durra Scholarship**, College of L&S.  
High achieving student in physical sciences or mathematics.

2016 **Undergraduate Travel Awards**, Psychology Department.

2015 **Phi Beta Kappa as a junior**, Alpha Chapter of Wisconsin.

2015 **Hilldale Undergraduate Research Fellowship**, College of L&S.

2015 **Bromley Research Conference Travel Grant**, L&S Honors Program.

2015 **CSLI Summer Research Internship**, Stanford University.

- 2014, 2015 **Undergraduate Research Scholar Award**, Psychology Department.  
Nominated by Dr.Maryellen MacDonald & Dr.Timothy Rogers
- 2014 **International Undergraduate Writing Contest 3<sup>rd</sup> Place**, English Department.
- 2014 **Margaret E. and Allard Smith Scholarship**, College of L&S.  
High achieving 2<sup>nd</sup> year student
- 2014 **Welton Summer Sophomore Research Grant**, L&S Honors Program.

## 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., & **Lu, Q.** (manuscript in preparation). A Parallel-Distributed Processing approach to mathematical cognition.
- Wang, T., **Lu, Q.** & Seidenberg, M.S. (manuscript in preparation). 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.
- Lu, Q.**, & Rogers, T. T. (2015). Modeling the temporal dynamics of human categorization behavior. Talk delivered at UW-Madison Undergraduate Research Symposium, Madison, WI.

## Technical Skills

- Advanced Matlab, Python, GitHub
- Intermediate Java, R, LENS, Linux Shell,  $\text{\LaTeX}$

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## Professional Affiliations

- 2015-present Cognitive Science Society
- 2014-present Cognitive Neuroscience Society

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## Workshops Attended

- 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

- 2016 **Statistical Learning**, *Stanford Online*, Stanford University.
- 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)