Qihong Lu

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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 & 2016 **Visiting Researcher**, The Parallel Distributed Processing Lab.
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**, 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 3rd Place**, English Department.

2014 **Margaret E. and Allard Smith Scholarship**, College of L&S.
High achieving 2nd 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. (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 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.

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, LaTeX

Mentoring

2016 Molly Ryan, Assessing the localization of motion representation in the brain

Professional Affiliations

2015-present Cognitive Science Society

2014-present Cognitive Neuroscience Society

Workshops Attended

2017 **Data Carpentry Workshop**, UW-Madison.

2016 **Contemporary Deep Neural Network Models**, the 38th CogSci workshop.

2015 **Quantum Models of Cognition and Decision**, the 37th CogSci workshop.

2014 **Growth Curve Analysis of Longitudinal Data**, UW-Madison.

Online Course Certificates

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

2016 **Build a Computer from 1st 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)