

Qihong Lu

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University of Wisconsin-Madison, Madison, WI, U.S.A.

Jan. 2013 ~ May. 2017

- **B.S. Psychology & Mathematics & Computer Science (Minor)**

- **Comprehensive Honors**

RESEARCH EXPERIENCE

Research Intern	Laboratory of Neural Coding	Summer 2013
P.I.: Dr. Longnian Lin, Shanghai Key Laboratory of Brain Functional Genomics		
Research Assistant	Language and Cognitive Neuroscience Lab	2013 ~ 2015
P.I.: Dr. Maryellen MacDonald & Dr. Mark Seidenberg, UW-Madison		
Research Assistant	Knowledge and Concepts Lab	2014 ~
P.I.: Dr. Timothy Rogers, UW-Madison		
Visiting Researcher	The Parallel Distributed Processing Lab	Summer 2015 & 2016
P.I.: Dr. James McClelland, Stanford University		

EXTRACURRICULAR ACTIVITIES

Tutor	Greater University Tutoring Service	2013 ~ 2014
- Taught Calculus I/II and Introductory Biology.		
Social Science Chair	IV·Ω Academic Society	2013 ~ 2015
- Organized “mini-lectures” and presented recent advances in social science on the “idea circle”.		
Student Representative	Letter & Science Faculty Honors Committee	2014 ~
- Discussing academic policies and curriculum.		
- Reviewing applications for undergraduate research grant, study abroad scholarship and leadership trust award.		

HONORS & AWARDS

Undergraduate Research Scholar Award , Psychology Department, UW-Madison	2014 & 2015
- Nominated by Dr. Maryellen MacDonald & Dr. Timothy Rogers	
Inducted to Psi Chi , Psychology Department, UW-Madison	2014
International Undergraduate Writing Contest, 3rd Place , Department of English, UW-Madison	2014
Welton Summer Sophomore Research Apprenticeship Grant , L&S Honors Program, UW-Madison	2014
Margaret and Allard Smith Scholarship , College of L&S, UW-Madison	2014
- High achieving second year student.	
Inducted to Phi Beta Kappa as a junior , UW-Madison	2015
Hilldale Undergraduate Research Fellowship , College of L&S, UW-Madison	2015
Bromley Research Conference Travel Grant , L&S Honors Program, UW-Madison	2015
Center of Study of Language and Information Summer Research Fellowship , Stanford University	2015
David H. Durra Scholarship , College of L&S, UW-Madison	2016
- High achieving student in mathematics or physical sciences.	
Undergraduate Travel Awards , Psychology Department, UW-Madison	2016

TECHNICAL SKILLS:

Significant experience: Matlab, Java (Eclipse), GitHub (<https://github.com/QihongL>)

Basic: R, Python, Linux & Unix, LENS, SPSS, Latex

PUBLICATIONS:

- McClelland, J.L., Mickey, K., Hansen S., & **Lu, Q.** (submitted). A Parallel-Distributed Processing approach to mathematical cognition.
- 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 process.

POSTERS:

- 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.
- Lu, Q.**, & Rogers, T. T. (2016). An interactive model accounts for both ultra-rapid superordinate classification and basic-level advantage in object recognition. Poster to be 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 to be presented at *the 15th Neural Computation and Psychology Workshop*, Philadelphia, PA.

TALKS:

- Lu, Q.**, & Rogers, T. T. (2015). Modeling the temporal dynamics of human categorization behavior. Talk delivered at *UW-Madison Undergraduate Research 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. (2016). A recurrent neural network for object recognition. Talk delivered at *UW-Madison Senior Honors Thesis Symposium*, Madison, WI.

SELECTED COURSE PROJECTS:

- Iterative reweighted lasso and its application to neuroimaging data**, ECE 532 Theory of Applications of Pattern Recognition, supervised by Dr. Robert D. Nowak
- Within category visual coherence of a concept determine its top-down effect**, PSYCH 411 Language and Thoughts, supervised by Dr. Gary Lupyan

PROFESSIONAL AFFILIATION:

Cognitive Neuroscience Society	2014 ~
Cognitive Science Society	2015 ~

ONLINE COURSE CERTIFICATES:

Model Thinking , Coursera, University of Michigan	Sep. 2013
Behavioral Economics in Action , edX, University of Toronto	Dec. 2013
Fundamentals of Neuroscience I , edX, Harvard University	Feb. 2014

Introduction to Dynamical System and Chaos , Santa Fe Institute	Mar. 2014
Moralities of Everyday Life , Coursera, Yale University	Mar. 2014
Statistical Analysis of fMRI Data , Coursera, Johns Hopkins University	Apr. 2014
Introduction to Complexity , Santa Fe Institute	May 2014
Justice , edX, Harvard University	Jul. 2014
Machine Learning , Coursera, Stanford University	Aug. 2014
Introduction to Computer Science and Programming Using Python , Coursera, MIT	Aug. 2014
The Brain and Space , Coursera, Duke University	Jul. 2015
Statistical Learning , Stanford Online, Stanford University	Apr. 2016
Build a Modern Computer from First Principles , Coursera, The Hebrew University of Jerusalem	May 2016

Certificates available upon request