

# HELEN SHIYANG LU

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## EDUCATION

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### University of Southern California (USC)

2018 - 2024

Ph.D. Candidate in Developmental Psychology

Minor in Quantitative Methods

- Advisor: Toben H. Mintz
- Research Interests: Statistical learning, Language acquisition, Cognitive mechanisms

### University of California, Los Angeles (UCLA)

2014 - 2018

B.A. in Psychology and Linguistics with a Specialization in Computing

*Summa Cum Laude*

- Advisors: Catherine Sandhofer and Scott P. Johnson
- Thesis: The effect of productive vocabulary and shape bias on toddlers memory for different perceptual features

## HONORS & AWARDS

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### USC Graduate School Summer Research and Writing Grant, USC

2020

\$5,000 award granted to one or two graduate students nominated by their departments

### Department of Psychology Doctoral Research Grant Awards, USC

2020

\$3,200, fund to support student research in the department

### Department of Psychology Research Continuity Fund, USC

2020

\$945, fund to support online research during COVID-19

### Dornsife PhD Fellowship, USC

2018 - Now

### Department of Psychology Highest Honors, UCLA

2018

Distinction of Highest Honors awarded to the top students in the Honors thesis cohort

### Undergraduate Research Scholars Program, UCLA

2017

\$5,000 merit-based award granted to students conducting advanced research in the STEM field

## PUBLICATIONS

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### Refereed Journal Articles

1. **Lu, H.S.** and Mintz, T.H. (2021). Learning non-adjacent rules and non-adjacent dependencies from human actions in 9-month-old infants. *PloS One*, 16(6), e0252959.  
[doi.org/10.1371/journal.pone.0252959](https://doi.org/10.1371/journal.pone.0252959)

### Conference Proceedings

1. **Lu, H.S.** and Mintz, T.H. (2021). Dynamic action facilitates learning of non-adjacent dependencies in visual sequences. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 43, No. 43). [PDF](#)

### Manuscripts in Preparation

1. **Lu, H.S.** and Mintz, T.H. (in prep). Dynamic action and human agents facilitate learning of non-adjacent dependencies in visual sequences.

## REFEREED CONFERENCE PRESENTATIONS

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1. **Lu, H.S.** and Mintz, T.H., (2022). Human dynamic actions aid non-adjacent dependency learning in both infants and adults. *Talk* presented at Interdisciplinary Advances in Statistical Learning, Donostia/San Sebastian, Spain, June 2022
2. **Lu, H.S.** and Mintz, T.H., (2021). Learning non-adjacent rules and dependencies from human actions in 9-month-old infants: Actions sometimes speaker louder than words. *Online presentation* at Budapest CEU Conference on Cognitive Development (BCCCD), January 2021
3. **Lu, H.S.** and Mintz, T.H. (2019). Visual rule learning: The connection between human actions and speech. *Poster* presented in *Cognitive Development Society*, Louisville, Kentucky, USA, October 2019
4. **Lu, H.S.** and Mintz, T.H. (2019). Visual rule learning: The connection between human body movements and speech. *Talk* presented at *14th Annual Symposium on Cognitive and Language Development*, Los Angeles, California, USA, May 2019
5. **Lu, H.S.**, Brady, S., Sanders, A., Johnson, S.P., and Sandhofer, C.M. (2018). What's in a word? The influence of productive vocabulary on toddlers' perceptual memory and shape bias. *Oral presentation* at *27th Annual Psychology Undergraduate Research Conference*, Los Angeles, California, USA, May 2018
6. **Lu, H.S.**, Brady, S., Sanders, A., Johnson, S.P., and Sandhofer, C.M. (2018). What's in a word? The relation of toddlers' productive vocabulary and feature memory. *Poster* presented at *13th Annual Symposium on Cognitive and Language Development*, Irvine, California, USA, May 2018
7. **Lu, H.S.**, Sanders, A., and Johnson, S.P. (2017). Indexing working memory capacity in infancy. *Poster* presented at *12th Annual Symposium on Cognitive and Language Development*, San Diego, California, USA, May 2017

## OTHER RESEARCH EXPERIENCES

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<b>Research Assistant at UCLA Baby Lab</b> University of California, Los Angeles Principal Investigator: Scott P. Johnson	<i>2016 - 2018</i>
<b>Research Assistant at UCLA Language Acquisition Lab</b> University of California, Los Angeles Principal Investigator: Megha Sundara	<i>2015 - 2018</i>
<b>Research Assistant at UCLA Computational Vision and Learning Lab</b> University of California, Los Angeles Principal Investigator: Hongjing Lu	<i>2015 - 2015</i>

## TEACHING RELATED EXPERIENCES

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<b>Teaching Assistant</b> for Statistics I with SPSS and R (PSYC274) University of Southern California Instructor: David Walsh, Rand Wilcox	Spring 2022
<b>Teaching Assistant</b> for Developmental Psychology (PSYC336L) University of Southern California Instructor: Leslie Berntsen, Frank Manis	Spring 2021, Fall 2020
<b>Center for Excellence in Teaching Future Faculty Training Workshops</b> University of Southern California Semester-long weekly workshops focused on teaching practices	Spring 2020

**Teaching Assistant** for Experimental Research Methods in Psychology (PSYC314L)      Spring 2019  
University of Southern California  
Instructor: William Breland

**Teaching Assistant** for Introduction to Psychology (PSYC100)      Fall 2018  
University of Southern California  
Instructor: Ann Renken

## PROFESSIONAL SERVICES

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<b>Organizer</b> for USC Department of Psychology Developmental Area Speaker Series	2021-2022
<b>Ad Hoc Reviewer</b> for 4th California Meeting in Psycholinguistics	2021
<b>Ad Hoc Reviewer</b> for Budapest CEU Conference on Cognitive Development	2022

## SKILLS

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### Languages

Mandarin Chinese (Native), English (Advanced), Cantonese (Intermediate)

### Experiment Related Techniques

Habituation-switch Programs (Habit, PyHab, PyHab Online), GitLab, PsychoPy3, Qualtrics, Praat, Lookit, SR EyeLink Eyetracker System, EGI Geodesic EEG System

### Programming Languages

R,  $\text{\LaTeX}$ , Python

[CV compiled on October 21, 2022]