

HELEN SHIYANG LU

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EDUCATION

- University of Southern California (USC)** 2018 - 2024
Ph.D. Candidate in Developmental Psychology, Minor in Quantitative Methods
M.A. in Psychology 2018 - 2020
- 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

- Department of Psychology Doctoral Research Grant Awards, USC** 2022
\$1,600, fund to support student research in the department
- 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

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

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

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

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

TEACHING RELATED EXPERIENCES

Teaching Assistant for Statistics I with SPSS and R (PSYC274) University of Southern California Instructor: David Walsh, Rand Wilcox	Spring 2022
Teaching Assistant for Developmental Psychology (PSYC336L) University of Southern California Instructor: Leslie Berntsen, Frank Manis	Spring 2021, Fall 2020

Center for Excellence in Teaching Future Faculty Training Workshops University of Southern California Semester-long weekly workshops focused on teaching practices	Spring 2020
Teaching Assistant for Experimental Research Methods in Psychology (PSYC314L) University of Southern California Instructor: William Breland	Spring 2019
Teaching Assistant for Introduction to Psychology (PSYC100) University of Southern California Instructor: Ann Renken	Fall 2018

PROFESSIONAL SERVICES

Organizer for USC Department of Psychology Developmental Area Speaker Series	2021-2022
Ad Hoc Reviewer for 4th California Meeting in Psycholinguistics	2021
Ad Hoc Reviewer for Developmental Cognitive Neuroscience	2022
Ad Hoc Reviewer for Budapest CEU Conference on Cognitive Development 2023	2022

SKILLS

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, L^AT_EX, Python

[CV compiled on November 21, 2022]