

# 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  
M.A. in Psychology 2018 - 2020  
Research Interests: Language acquisition, Statistical learning, Cognitive mechanisms

**University of California, Los Angeles (UCLA)** 2014 - 2018  
B.A. in Psychology and Linguistics with a Specialization in Computing, *Summa Cum Laude*

## GRANTS & AWARDS

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**Doctoral Dissertation Research Improvement Grant - Linguistics, NSF** 2023 - 2025  
“Doctoral Dissertation Research: The Effects of Language Experience on Statistical Learning in Infants and Adults” (BCS-2234422, Co-PI, Total amount: \$18,949)

**Frederick and Dorothy Quimby Memorial Scholarship** 2023 - 2024  
\$22,750, merit-based scholarship based on superior scholarship and outstanding citizenship

**Department of Psychology Doctoral Research Grant Awards, USC** 2023  
\$1,365, fund to support student research in the department

**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 - 2023

**Department of Psychology Highest Honors, UCLA** 2018  
Distinction of Highest Honors awarded to the top (10%) 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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1. **Lu, H.S.** and Mintz, T.H. (in prep). Sensitivity of behavioral tasks in NAD learning: A contrast between two-alternative forced choice and familiarity rating methods.
2. Kosie, J. E., Zettersten, M., Abu-Zhaya, R., Amso, D., Babineau, M., Baumgartner, H. A., ...**Lu, H.S.**..., Lew-Williams, C. (under review). ManyBabies 5: A large-scale investigation of the proposed shift from familiarity preference to novelty preference in infant looking time. [PDF](#)
3. **Lu, H.S.** and Mintz, T.H. (2023). Dynamic action and human agents facilitate learning of non-adjacent dependencies in visual sequences. *Cognitive Science*, 47(9), e13344. [PDF](#)

4. **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. [PDF](#)
5. **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](#)

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## REFEREED CONFERENCE PRESENTATIONS

1. **Lu, H.S.** and Mintz, T.H., (2024). Investigating non-adjacent dependency learning in 12-month-old infants. *Poster* to be presented at the Cognitive Development Society (CDS) conference, Pasadena, California, USA, March 2024
2. **Lu, H.S.** and Mintz, T.H., (2023). Twelve-month-olds Generalize Nonadjacent Dependencies From Artificial Speech Presented at a Natural Speech Rate. *Flash Talk* presented at the Society for Research in Child Development (SRCD) 2023 Biennial Meeting, Salt Lake City, Utah, USA, March 2023
3. **Lu, H.S.** and Mintz, T.H., (2022). Human dynamic actions aid non-adjacent dependency learning in both infants and adults. *Talk* presented at the Interdisciplinary Advances in Statistical Learning meeting, Donostia/San Sebastian, Spain, June 2022
4. **Lu, H.S.** and Mintz, T.H., (2021). Dynamic action facilitates learning of non-adjacent dependencies in visual sequences. *Poster* presented at the 43rd Annual Meeting of the Cognitive Science Society, Virtual Conference, July 2021
5. **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), Virtual Conference, January 2021
6. **Lu, H.S.** and Mintz, T.H. (2019). Visual rule learning: The connection between human actions and speech. *Poster* presented at the Cognitive Development Society (CDS) conference, Louisville, Kentucky, USA, October 2019
7. **Lu, H.S.** and Mintz, T.H. (2019). Visual rule learning: The connection between human body movements and speech. *Talk* presented at the 14th Annual Symposium on Cognitive and Language Development, Los Angeles, California, USA, May 2019
8. **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. *Talk* presented at the 27th Annual Psychology Undergraduate Research Conference, Los Angeles, California, USA, May 2018
9. **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 the 13th Annual Symposium on Cognitive and Language Development, Irvine, California, USA, May 2018
10. **Lu, H.S.**, Sanders, A., and Johnson, S.P. (2017). Indexing working memory capacity in infancy. *Poster* presented at the 12th Annual Symposium on Cognitive and Language Development, San Diego, California, USA, May 2017

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## TEACHING RELATED EXPERIENCES

**Teaching Assistant** for Statistics I with SPSS and R (PSYC274)  
 University of Southern California  
 Instructor(s): David Walsh, Rand Wilcox

Spring 2022, Fall 2022

**Teaching Assistant** for Developmental Psychology (PSYC336L) Spring 2021, Fall 2020  
 University of Southern California  
 Instructor(s): Leslie Berntsen, Frank Manis

**Center for Excellence in Teaching Future Faculty Training Workshops** Spring 2020  
 University of Southern California  
 Semester-long weekly workshops focused on teaching practices

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

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

## PROFESSIONAL SERVICES

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**Member** of Stimulus Design & Experiment Programming Teams in ManyBabies 5 2023-Now

**Student Member** of ManyBabies Diversity & Outreach Committee 2023-Now

**Organizer** for USC Department of Psychology Developmental Area Speaker Series 2021-2022

**Ad Hoc Reviewer** for

- California Meeting in Psycholinguistics (2021)
- Budapest CEU Conference on Cognitive Development (2023, 2024)
- CogSci (2024)
- *Developmental Cognitive Neuroscience*
- *Cognitive Psychology*

**Panelist Speaker** for

- USC CLIMATE 2023 PhD Preview Day for minority students
- USC Psi Chi Graduate School Panel
- Graduate School Panel hosted by Chinese Students and Scholars Association at UCLA

## SKILLS

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### Languages

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

### Experiment Related Software and Techniques

Habituation Paradigm (Habit, PyHab, PyHab Online), Headturn Preference Paradigm, GitLab, PsychoPy3, Qualtrics, Praat, Lookit, Eye-tracking

### Programming Languages

R, L<sup>A</sup>T<sub>E</sub>X, Python

[CV compiled on March 7, 2024]