

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
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

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

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. (Stage 1 registered report, inprinciple acceptance). ManyBabies 5: A large-scale investigation of the proposed shift from familiarity preference to novelty preference in infant looking time. *Nature Human Behaviour*. [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](#)

REFEREED CONFERENCE PRESENTATIONS

1. **Lu, H.S.** and Mintz, T.H., (2024). Task-dependent learning outcomes: Successful non-adjacent dependency learning in a rating task but not in 2AFC. *Poster* to be presented at the Interdisciplinary Advances in Statistical Learning meeting, Donostia/San Sebastian, Spain, June 2024
2. **Lu, H.S.** and Mintz, T.H., (2024). Non-adjacent dependency learning in monolingual and multilingual 12-month-olds: An online habituation study. *Poster* to be presented at the Interdisciplinary Advances in Statistical Learning meeting, Donostia/San Sebastian, Spain, June 2024
3. **Lu, H.S.** and Mintz, T.H., (2024). Investigating non-adjacent dependency learning in 12-month-old infants. *Poster* presented at the Cognitive Development Society (CDS) conference, Pasadena, California, USA, March 2024
4. **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
5. **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
6. **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
7. **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
8. **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
9. **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
10. **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
11. **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
12. **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

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) University of Southern California; Instructor(s): 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(s): William Breland	Spring 2019
Teaching Assistant for Introduction to Psychology (PSYC100) University of Southern California; Instructor(s): Ann Renken	Fall 2018

PROFESSIONAL SERVICES

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 <ul style="list-style-type: none">• California Meeting in Psycholinguistics (2021)• Budapest CEU Conference on Cognitive Development (2023, 2024)• CogSci (2024)• <i>Developmental Cognitive Neuroscience</i>• <i>Cognitive Psychology</i>	
Panelist Speaker for <ul style="list-style-type: none">• 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

Languages

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

Experiment Related Software and Techniques

Habituation (Habit, PyHab in-person & online), Headturn Preference, GitLab, PsychoPy3, Qualtrics, Praat, Lookit, Eye-tracking

Programming Languages

R, L^AT_EX, Python

[CV compiled on March 23, 2024]