

HELEN SHIYANG LU

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EDUCATION

University of Southern California (USC) 2018 - 2024
Ph.D. in Developmental Psychology, Minor in Quantitative Methods
M.A. in Psychology 2018 - 2020
Dissertation: *The effects of language experience on statistical learning in infants and adults*
Advisor: Dr. Toben H. Mintz

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

PROFESSIONAL POSITIONS

The University of British Columbia (UBC) *Incoming (Sep 2024)*
Killam Postdoctoral Research Fellow
Advisors: Dr. Alexis K. Black & Dr. Janet F. Werker

PUBLICATIONS

1. **Lu, H.S.** and Mintz, T.H. (in prep). Task-dependent learning of non-adjacent dependencies: Success in a familiarity rating task versus failure in a two-alternative forced-choice task.
2. **Lu, H.S.** and Mintz, T.H. (in prep). Second language learning facilitates non-adjacent dependency learning: Effects moderated by specific language.
3. 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). ManyBabies 5: A large-scale investigation of the proposed shift from familiarity preference to novelty preference in infant looking time. *Nature Human Behaviour*. [PDF](#)
4. **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](#)
5. **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](#)
6. **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](#)

GRANTS & AWARDS

Killam Postdoctoral Research Fellowship 2024 - 2026

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 \$1,600, fund to support student research in the department	2022
USC Graduate School Summer Research and Writing Grant, USC \$5,000 award granted to one or two graduate students nominated by their departments	2020
Department of Psychology Doctoral Research Grant Awards, USC \$3,200, fund to support student research in the department	2020
Department of Psychology Research Continuity Fund, USC \$945, fund to support online research during COVID-19	2020
Dornsife PhD Fellowship, USC	2018 - 2023
Department of Psychology Highest Honors, UCLA Distinction of Highest Honors awarded to the top (10%) students in the Honors thesis cohort	2018
Undergraduate Research Scholars Program, UCLA \$5,000 merit-based award granted to students conducting advanced research in the STEM field	2017

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* 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* 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)	Spring 2022, Fall 2022
University of Southern California; Instructor(s): David Walsh, Rand Wilcox	
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

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> 	
Invited Panel Speaker for	
<ul style="list-style-type: none"> • USC Linguistics 610 Graduate Student Panel • USC CLIMATE 2023 PhD Preview Day for minority students • USC Psi Chi Graduate School Panel • UCLA Chinese Students and Scholars Association Graduate School Panel 	

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 July 5, 2024]