

HELEN SHIYANG LU

3620 McClintock Ave, SGM 616, Los Angeles, California 90089

Email: lushiyang@usc.edu Personal Website: <https://helenshiyang.github.io/>

EDUCATION

University of Southern California (USC)	<i>2018 - 2024</i>
Ph.D. Candidate in Developmental Psychology, Minor in Quantitative Methods	
M.A. in Psychology	<i>2018 - 2020</i>
Research Interests: Language acquisition, Statistical learning, Cognitive mechanisms	
University of California, Los Angeles (UCLA)	<i>2014 - 2018</i>
B.A. in Psychology and Linguistics with a Specialization in Computing, <i>Summa Cum Laude</i>	

GRANTS & AWARDS

Doctoral Dissertation Research Improvement Grant - Linguistics, NSF	<i>2023 - 2025</i>
“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	<i>2023</i>
\$22,750, merit-based scholarship based on superior scholarship and outstanding citizenship	
Department of Psychology Doctoral Research Grant Awards, USC	<i>2022</i>
\$1,600, fund to support student research in the department	
USC Graduate School Summer Research and Writing Grant, USC	<i>2020</i>
\$5,000 award granted to one or two graduate students nominated by their departments	
Department of Psychology Doctoral Research Grant Awards, USC	<i>2020</i>
\$3,200, fund to support student research in the department	
Department of Psychology Research Continuity Fund, USC	<i>2020</i>
\$945, fund to support online research during COVID-19	
Dornsife PhD Fellowship, USC	<i>2018 - Now</i>
Department of Psychology Highest Honors, UCLA	<i>2018</i>
Distinction of Highest Honors awarded to the top (10%) students in the Honors thesis cohort	
Undergraduate Research Scholars Program, UCLA	<i>2017</i>
\$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. (under review). ManyBabies 5: A large-scale investigation of the proposed shift from familiarity preference to novelty preference in infant looking time. doi.org/10.31234/osf.io/ck3vd
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. doi.org/10.1111/cogs.13344

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. doi.org/10.1371/journal.pone.0252959
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., (2023). Twelve-month-olds Generalize Nonadjacent Dependencies From Artificial Speech Presented at a Natural Speech Rate. *Flash Talk* presented at Society for Research in Child Development 2023 Biennial Meeting, Salt Lake City, Utah, USA, March 2023
2. **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
3. **Lu, H.S.** and Mintz, T.H., (2021). Dynamic action facilitates learning of non-adjacent dependencies in visual sequences. *Poster presentation* at the 43rd Annual Meeting of the Cognitive Science Society, Virtual Conference, July 2021
4. **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
5. **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
6. **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
7. **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
8. **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
9. **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

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

Stimulus Design Team Member in ManyBabies 5 Project	2023-Now
Student Member in 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) • <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 Programs (Habit, PyHab, PyHab Online), Headturn Preference Procedure, GitLab, PsychoPy3, Qualtrics, Praat, Lookit, Eye-tracking

Programming Languages

R, \LaTeX , Python

[CV compiled on October 16, 2023]