Canaan Breiss

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Research Interests

→ Theoretical, computational, and experimental phonology; its interfaces with (morpho)syntax, processing, and the lexicon.
→ The learning and representation of interacting phonological processes.
→ Language acquisition and learning in infants and machines.

Academic employment

University of Chicago
2026- Neubauer Family Assistant Professor, *Linguistics*

University of Southern California
2023-26 Assistant Professor, *Linguistics*
2024-26 Assistant Director, *Center for Computational Language Sciences*

Massachusetts Institute of Technology
2021-2023 Postdoctoral Associate, *Brain & Cognitive Sciences*
Affiliation: Computational Psycholinguistics Lab & MIT-IBM Watson AI Lab.
Supervisor: Roger Levy

Education

2021 PhD, *Linguistics,* University of California - Los Angeles
Dissertation: *Lexical Conservatism in phonology: theory, experiments, and computational modeling*
Committee: Bruce Hayes (chair), Kie Zuraw, Claire Moore-Cantwell, Megha Sundara

2018 (dated 2020) MA, *Linguistics,* University of California - Los Angeles
Thesis: *The role of markedness in phonological processing above the word level*

Committee: Bruce Hayes, Jesse Harris (co-chairs), Kie Zuraw

2016 BA, *Linguistics & Languages*, Swarthmore College
Thesis: *The templatic morphology of loan verbs in Modern Hebrew*
Advisors: Nathan Sanders, Donna Jo Napoli

Non-degree training

Sept. 2019 *Summer School on Statistical Methods for Linguistics and Psychology*: Advanced Bayesian stream, University of Potsdam
June-July 2019 *2019 LSA Summer Institute*, University of California - Davis
August 2018 *Bayesian Modeling for Cognitive Science Workshop*, University of Amsterdam
July 2017 *2017 LSA Summer Institute*, University of Kentucky - Lexington
2016-2017 *Certificate in Indo-European Studies*, University of California - Los Angeles
July 2016 *North American Summer School for Language, Logic, & Information 2016*, Rutgers University

Extramural competitive funding

2025-26 Conference: Abstract and item-specific knowledge across frameworks and domains. Status: Principal Investigator. Funding agency: National Science Foundation, award number 2502830. **Total costs: $28,056 USD**. 1-Year NCE to 2027.
recommended CompCog: An experimental and computational study of naturalness bias in phonological learning. Status: Principal Investigator. Funding agency: National Science Foundation, award number TBD. **Total costs: $296,591 USD**

Fellowships, honors, & awards

June 2021 Dissertation Year Fellowship, UCLA
October 2020 MetaLab Contribution Challenge Winner, Stanford University / Fetzer Franklin Fund
Project: Time course of first-language phonotactic learning. Advised by Megha Sundara, with Z.L. Zhou, Hironori Katsuda, Jeremy Steffman
August 2020 UCLA Departmental Research Award, UCLA - *x2*
Project: Lexical conservatism in Spanish diphthongs. Advised by Bruce Hayes
June 2019, February 2020 Ladefoged Scholarship Award, UCLA - *x2*
Project: Investigating apparent rule ordering paradoxes in Acehnese. Advised by Bruce Hayes
Summer 2018 Graduate Summer Research Mentorship, UCLA
Project: Processing phonotactic markedness in production. Advised by Jesse Harris.
2018-2023 Graduate Research Fellowship, National Science Foundation
2017-2018 Robert Stockwell Fellowship in Linguistics, UCLA
Summer 2017 Graduate Summer Research Mentorship, UCLA
Project: Phonotactic effects in word order. Advised by Bruce Hayes.
2016-2017 Fulbright-University of Helsinki Graduate Award, U.S. Fulbright Commission - *declined*
Awarded to pursue a MA in linguistics at the University of Helsinki, Finland.
Summer 2016 Sigma Xi Research Travel Grant, Swarthmore College Sigma Xi Chapter

2015-2016 Dean's Office Travel Grant, Swarthmore College - *x2*
Summer 2015 Eugene M. Lang Summer Research Fellowship, Swarthmore College
Summer 2014 Hay-Urban Prize in Religion, Swarthmore College
2014-2016 Elizabeth Thorne Snipes Scholar, Swarthmore College
Summer 2013 Classics Department Summer Research Grant, Swarthmore College
2013-2016 Margaret McCain Ford '43 Scholar, Swarthmore College

Publications & manuscripts

Notes: *graduate student advisee, **undergraduate student advisee, †equal contributions, senior author

Journal articles

in revision Hunter, Tim, **Canaan Breiss**†, & Bruce Hayes†. "Syntactic and phonological principles operate jointly in sentence formation: a computational modeling study". *Language.*

resubmitted Sundara, Megha†, **Canaan Breiss**†, Niels Dickson*, & Connor Mayer. "What's in a 5-month-old's (proto-)lexicon?". *Developmental Science.*

to appear **Breiss, Canaan**, Hironori Katsuda, & Shigeto Kawahara. "Modeling frequency-conditioned paradigm uniformity in Japanese voiced velar nasalization". *Phonology.*

2026 **Breiss, Canaan**, Hironori Katsuda, & Shigeto Kawahara. "Token frequency in the grammar: a case study in Japanese Voiced Velar Nasalization". *Phonology.*

2026 Sundara, Megha† & **Canaan Breiss**†. "The acquisition of native language phonotactics: Integrating insights from machine learning, and adult and infant experiments". *Cognition.*

2025 **Breiss, Canaan**†, Bruce Hayes†, Mark Johnson, & Megha Sundara. "Modeling how suffixes are learned in infancy". *Cognitive Science.*

2024 Jo, Jinyoung*, Megha Sundara, & **Canaan Breiss**. "Predicting language outcomes at 3 years using individual differences in morphological segmentation in infancy". *Infant Behavior and Development.*

2024 **Breiss, Canaan**. "When bases compete: a voting model of Lexical Conservatism". *Language.*

2022 **Breiss, Canaan** & Adam Albright. "Cumulative markedness effects and (non-)linearity in phonotactics". *Glossa.*

2022 Sundara, Megha, ZL Zhou†, **Canaan Breiss**†, Hironori Katsuda, & Jeremy Steffman. "Infants' developing sensitivity to native language phonotactics: A Meta-analysis". *Cognition.*

2021 Kawahara, Shigeto & **Canaan Breiss**. "Exploring the nature of cumulativity through sound symbolism: Experimental studies of Pokémonastics with English speakers". *Journal of Laboratory Phonology.*

2020 **Breiss, Canaan**. "Constraint cumulativity in phonotactics: evidence from Artificial Grammar Learning studies". *Phonology.*

2020 **Breiss, Canaan** & Bruce Hayes. "Phonological markedness effects in sentence formation". *Language.*

Peer-reviewed conference proceedings

2025 Gauthier, Jon, **Canaan Breiss**, Matthew Leonard, & Edward Chang. "Emergent morpho-phonological representations in self-supervised speech models". *EMNLP Main Conference.*

2025 **Breiss, Canaan**. "Testing the Base-specificity prediction of the Voting Bases model". *Proceedings of WCCFL 42. Somerville, MA: Cascadilla Proceedings Project.*

2024

Breiss, Canaan, Alexis Ross*, Amani Maina-Kilaas*, Roger Levy, *&* Jacob Andreas. "Learning phonotactics from linguistic informants". *Proceedings of the Society for Computation in Linguistics (SCiL)*

2023 **Breiss, Canaan** *&* Jinyoung Jo*. "SIGMORPHON–UniMorph 2023 Shared Task 0: Cognitively Plausible Morphophonological Generalization in Korean". *Proceedings of the 20th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology.*

2023 Martin, Kinan**, Jon Gauthier†, **Canaan Breiss**† *&* Roger Levy. "Probing self-supervised speech models for phonetic and phonemic information: a case study in aspiration". *Proceedings of the 24th INTERSPEECH Conference.*

2021 **Breiss, Canaan**, Hironori Katsuda, *&* Shigeto Kawahara. "A quantitative study of voiced velar nasalization in Japanese". *Proceedings of the 45th Penn Linguistics Conference, U. Penn Working Papers in Linguistics, Volume 27.1, 2021.*

2021 **Breiss, Canaan**, Hironori Katsuda, *&* Shigeto Kawahara. "Paradigm uniformity is probabilistic: evidence from velar nasalization in Japanese". *Proceedings of WCCFL 39. Somerville, MA: Cascadilla Proceedings Project.*

2021 **Breiss, Canaan**†, Jesse Harris†, *&* Amanda Rysling. "The online advantage of repairing metrical structure: Stress shift in pupillometry". *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.*

2020 **Breiss, Canaan** *&* Colin Wilson. "Extending adaptor grammars to learn phonological alternations". *Proceedings of the Society for Computation in Linguistics*: Vol. 3.

Additional manuscripts

in prep. Albright, Adam *&* **Canaan Breiss**. "Cumulative violations and complexity thresholds". *Phonology.*

in prep. **Breiss, Canaan** *&* Roger Levy. "Modeling sources of stability in lexical idiosyncrasy within individuals and across paradigms". *Cognition.*

2019 **Breiss, Canaan**. "Phonotactic markedness increases processing demands in speech production" (UCLA)

2017 **Breiss, Canaan** *&* Ryan Sandell. "Emergent directionality in glottal state dissimilation: the case of Grassmann's Law" (UCLA *&* Ludwig-Maximilians-Universität München)

Presentations

Invited

April 27, 2026 *Lexical idiosyncrasy and abstraction in the English comparative/superlative alternation.* Colloquium at the University of California, Davis.

April 9, 2026 *Emergent morphophonological representations in models of spoken word recognition.* Invited talk in the Artificial Intelligence speaker series, USC Information Sciences Institute (ISI).

March 19, 2026 *Phonological theory and statistics.* Invited "nerd session" at the Surrey Morphology Group, Surrey, UK.

March 18, 2026 *Token frequency and paradigm uniformity in two Japanese dialects.* Invited talk at the Surrey Morphology Group, Surrey, UK.

Jan. 22, 2026 *Building rich theory from sparse data: two case studies from Tōhoku Japanese.* Invited talk at the University of Chicago, Chicago, IL.

April 4, 2025 *A meta-analysis of learning bias in phonology: preliminary results on vowel harmony.* Colloquium at the University of North Carolina, Chapel Hill.

March 10, 2025 *How to make the most of what you have: building phonological theory from sparse data.* Invited talk at McGill University, Montréal, Quebec, Canada.

Nov. 5, 2024 *Correlated idiosyncrasy in the English comparative and superlative alternations.* Invited talk at the University of Pennsylvania, Philadelphia, PA.

Oct. 31, 2024 *Modeling token frequency in the grammar of Japanese.* Invited talk at the University of Massachusetts – Amherst, Amherst, MA.

Oct. 11, 2024 *Lexical Conservatism as a window into the grammar and lexicon.* Invited plenary at the "Workshop on Nonuniformity in Morphophonology across Frameworks" at Uni. Trier, Germany. Part of the *English Root Stress across Frameworks* project.

Sept. 18, 2024 *What do speakers know about the sound patterns of their language, and how do they come to know it?* "Center for Computational Language Sciences" guest speaker series, University of Southern California.

April 26, 2024 *Token frequency in the grammar: evidence from Japanese voiced velar nasalization.* Colloquium at the University of Pennsylvania.

March 27, 2024 *Structure at the edge of the lexicon: generalization, processing, and learning.* Colloquium at Yale University.

March 11, 2024 *Re-examining Lexical Conservatism with experiments and computational modeling.* Colloquium at the University of Oxford.

Feb. 14, 2024 *Learning phonotactics from linguistic informants* (with Alexis Ross, MIT). IFLG monthly seminar series hosted by the *Linguistique Informatique, Formelle et de Terrain* group.

March 4, 2022 *When bases compete: experimental and computational studies of Lexical Conservatism.* Colloquium at UMass Amherst.

Feb. 23, 2022 *Modelling morphological and phonological acquisition under conditions of data scarcity.* Colloquium at Queen Mary University London.

Feb. 7, 2022 *When bases compete: experimental and computational studies of Lexical Conservatism.* Colloquium at the University of Southern California.

Feb. 7, 2022 *Constraint in cumulativity in phonotactics: evidence from Artificial Grammar Learning studies.* Phon-Lunch talk at the University of Southern California.

March 18, 2021 *Phonological markedness effects in sentence formation* (with Bruce Hayes). UBC Research Seminar on Phonology-Syntax Interface.

Nov. 30, 2020 *Between grammar and lexicon: new experimental evidence for Lexical Conservatism.* MIT Phonology Circle.

Nov. 23, 2020 *Inside phonological decision-making: evidence from artificial-grammar-learning studies.* Rutgers Cognitive Science Seminar.

June 23, 2020 *Phonological markedness effects in sentence formation* (with Bruce Hayes). LSA *Meet the Authors* webinar series.

June 9, 2020 *Phonological markedness effects in sentence formation.* Keio-ICU Linguistics Colloquium, Japan (presented virtually).

Refereed

Jan. 2026 *On the unstable nature of saltatory patterns: A cross-dialectal study of the interaction of Japanese Rendaku and Velar Nasalization* (with Hiro Katsuda - U. Kansas & Shigeto Kawahara - Keio U.). Talk presented at the 2026 LSA Annual Meeting, New Orleans, LA.

Jan. 2026 *Surprisal and plasticity tradeoffs in the competition between speaker-oriented and listener-oriented production constraints in speech variation* (with Po-Hsuan Huang* - USC). Talk presented at the 2026 LSA Annual Meeting, New Orleans, LA.

Nov. 2025 *A Bayesian meta-analysis of inductive bias in phonological learning* (with Anna Runova* - USC). Spotlight poster presentation at the 2025 Computational Psycholinguistics Conference, Utrecht, the Netherlands.

Nov. 2025 *Emergent morho-phonological structure in self-supervised speech models* (with Jon Gauthier - UCSF, Matthew Leonard - UCSF, Edward F. Chang - UCSF). Poster presented at EMNLP 2025, Suzhou, China.

Sept. 2025 *Emergent morho-phonological structure in self-supervised speech models* (with Jon Gauthier - UCSF, Matthew Leonard - UCSF, Edward F. Chang - UCSF). Talk presented at AMP 2025 (Special session on Deep Phonology), Berkeley, CA.

Sept. 2025 *What have we learned about naturalness in vowel patterns from 20 years of AGL experiments? A Bayesian meta-analysis* (with Anna Runova* - USC). Poster presented at AMP 2025, Berkeley, CA.

Sept. 2025 *Do speech models use phonological features?* (with Jon Gauthier - UCSF). Poster presented at AMP 2025 (Special Session on Deep Phonology), Berkeley, CA.

Aug. 2025 *Do speech models use phonological features?* (with Jon Gauthier - UCSF). Poster presented at CogSci 2025, San Francisco, CA.

May 2025 *Variation and breakdown in the saltatory interaction of Rendaku and velar nasalization* (with Hiro Katsuda - U. Kansas & Shigeto Kawahara - Keio U.) Talk presented at the 31st Manchester Phonology Meeting, Manchester, United Kingdom.

Nov. 2024 *A meta-analysis of learning bias in phonology: preliminary results on vowel harmony* (with Anna Runova* - USC). Talk presented at CAMP[7], San Diego, CA.

Nov. 2024 *Correlated idiosyncrasy in the English comparative and superlative alternations.* Talk-alternate presented at AMP 2024, New Brunswick, NJ.

June 2024 *Frequency-conditioned variation constrained by the grammar in Japanese nasalization* (with Hiro Katsuda - UCLA & Shigeto Kawahara, Keio U.). Poster presented at LabPhon 2024, Seoul, South Korea.

June 2024 *A Poisson model of phonological co-occurrence restrictions* (with Adam Albright - MIT). Poster presented at LabPhon 2024, Seoul, South Korea.

April 2024 *Testing the Base-specificity prediction of the Voting Bases model.* Poster presented at WCCFL 24, Berkeley, CA.

May 2023 *Lexical sources of phonological alternation: a role for Voting Bases* (with Donca Steriade - MIT). Talk presented at HISPHONCOG 2023, Seoul, Korea.

January 2023 *Opacity, variation, and breakdown in Korean verbal morphophonology* (with Jinyoung Jo - UCLA). Talk presented the 97th LSA Annual Meeting, Denver, CO.

October 2022 *Lexical Conservatism as an empirical challenge to obligatory cyclic inheritance.* Talk presented at AMP 2022, Los Angeles, CA.

January 2022 *Lexical Conservatism is not always conservative.* Talk presented at the 96th LSA Annual Meeting, Washington, DC.

January 2022 *Multiply-conditioned vowel assimilation in Yemba imperatives* (with Jae Weller - UW Madison). Talk presented at the 96th LSA Annual Meeting, Washington, DC.

October 2021 *Token frequency in the grammar: a wug-test of Voiced Velar Nasalization in Japanese* (with Hiro Katsuda - UCLA & Shigeto Kawahara, Keio U.). Talk presented at AMP 2021 (presented virtually).

October 2021 *Markedness-avoidance alone does not determine Base choice: evidence from Spanish.* Poster presented at AMP 2021 (presented virtually).

April 2021 *Paradigm uniformity is probabilistic: evidence from velar nasalization in Japanese* (with Hiro Katsuda - UCLA & Shigeto Kawahara, Keio U.). Talk presented at WCCFL 39 (presented virtually).

March 2021 *A quantitative study of voiced velar nasalization in Japanese.* Talk presented at the 45th Annual Penn Linguistics Conference (presented virtually).

Jan. 2021 *Base effects are probabilistic: a case study in Lexical Conservatism.* Talk presented at the 95th LSA Annual Meeting (presented virtually).

Jan. 2021 *The role of the P-Map in shaping typology* (with ZL Zhou - UCLA). Poster presented at the 95th LSA Annual Meeting (presented virtually).

Nov. 7, 2020 *5-month-olds are sensitive to native language phonotactics* (with Megha Sundara - UCLA). Talk presented at the 45th Annual Boston University Conference on Language Development (BUCLD), hosted online by BU.

Sept. 20, 2020 *Exploring the nature of cumulativity through sound symbolism.* Poster presented at the the 2020 Annual Meeting on Phonology (AMP), hosted online by UCSC.

Sept. 20, 2020

Lexical Conservatism is probabilistic. Poster presented at the 2020 Annual Meeting on Phonology (AMP), hosted online by UCSC.

July 7, 2020 *5-month-olds are sensitive to native language phonotactics* (with Megha Sundara - UCLA). Talk presented at the 17th Meeting on Laboratory Phonology, online at UBC and SFU.

March 21, 2020 *The online advantage of repairing metrical structure: Stress shift in pupillometry* (with Jesse Harris - UCLA & Amanda Rysling - UCSC). Poster presented at the 2020 CUNY Conference on Human Sentence Processing, hosted online by UMass Amherst.

Jan. 4, 2020 *When is a gang effect more than the sum of its parts?* (with Adam Albright - MIT). Talk presented at the 94th LSA Annual Meeting, New Orleans, LA.

Jan. 4, 2020 *Extending adaptor grammars to learn phonological alternations* (with Colin Wilson - Johns Hopkins University). Poster presented at the the Society for Computation in Linguistics (SCiL) 2020 Annual Meeting, New Orleans, LA.

Oct. 13, 2019 *Incorporating phonological and syntactic factors into sentence probability distributions* (with Tim Hunter & Bruce Hayes). Poster presented at the 2019 Annual Meeting on Phonology (AMP), Stony Brook, NY.

Oct. 12, 2019 *Constraint ganging in phonological learning: evidence from artificial grammar learning studies.* Talk presented at the 2019 Annual Meeting on Phonology (AMP), Stony Brook, NY.

Jan. 4, 2019 *Investigating the learnability of gang effects.* Talk presented at the the 93rd LSA Annual Meeting, New York City, NY.

March 30, 2019 *Phonotactic markedness increases processing costs in speech production.* Poster presented at the 32nd Annual CUNY Conference on Sentence Processing, Denver, CO.

April 21, 2018 *Phonological markedness impacts sentence construction: Modeling evidence from Korean and Tagalog.* Talk presented at WCCFL 36, Los Angeles, CA.

Jan. 6, 2018 *More on leaky grammars: Sentence construction respects phonological markedness constraints* (with Bruce Hayes - UCLA). Talk presented at the 92nd LSA Annual Meeting, Salt Lake City, UT.

July 23, 2017 *Phonotactically mobile reduplicants in Dime.* Poster presented at the LSA Summer Institute, University of Kentucky.

April 9, 2016 *The templatic morphology of English loan verbs in Modern Hebrew.* Talk presented at the 13th Annual Undergraduate Linguistics Colloquium at Harvard, Harvard University, MA.

Teaching

Short courses

Summer 2025 *Phonology and the lexicon* - invited 2-week course at the 2025 LSA Summer Institute, University of Oregon.

Summer 2023 *Phonological theory and statistics* - 2-week course at the 2023 LSA Summer Institute, UMass Amherst.

University of Southern California

Graduate

Fall 2023 *Seminar: Cumulativity*

Fall 2025 *Seminar: Phonological theory as cognitive modeling*

Spring 2026 *Directed reading: Modeling language change*

Spring 2024, 2025, 2026 *Graduate Phonology II*

Undergraduate

Spring 2025, 2026 *Introduction to Phonology & Morphology*

Fall 2024

Introduction to Linguistics

UCLA (as graduate student)

Graduate

Spring 2021 *Graduate research methods seminar* - TA for Megha Sundara

Undergraduate

Fall 2019 *Applied Phonology* - Guest lecturer for weeks 0-2
Spring 2019 *Applied Phonology* - TA for Suzy Ahn
Spring 2018 *Introduction to Historical Linguistics* - TA for David Goldstein
Winter 2018 *Applied Phonetics* - TA for Megha Sundara

Advising

University of Southern California

Pre-dissertation general advising

2025- Po-Hsuan Huang
2024-25 Jack Goldberg

Qualifying committees

Spring 2025 Darby Grachek, *Representations of exceptions in phonology, morphology, and the lexicon* (Committee member)
Spring 2025 Muxuan He, *Rational Language Comprehension: How Comprehenders Achieve a Cost-Benefit Balance* (Committee member)

Screening papers

2025-26 Po-Hsuan Haung, *The conditioning of surprisal and many-to-one mappings in speech variation: articulatory efficiency and perceptual recoverability* (Committee chair; area: phonetics)
2025-26 Emma Kealey, *Facilitative Processing of Grammatical Gender in Visual Word Recognition: The Effect of Noun Transparency and Gender Agreement Cues* (Committee member; area: psycholinguistics)
2025-26 Natsumi Taniguchi, *The Role of Word Frequency and Stress-Prominence Matching in Sung Word Recognition* (Committee member; area: psycholinguistics)
2024-25 Jack Goldberg, *Probing the relationship between articulatory setting and articulation through divergent speech* (Committee member; area: phonetics)
2024-25 Anna Runova, *Perception and production of gender-marking vowels in heritage Russian* (Committee member; area: multilingualism)
2023-24 Darby Grachek, *Morphophonological exceptionality and decomposition* (Committee member; area: phonology)
2023-24 Hailin Hao, *Naturalistic reading time data support information locality* (Committee member; area: computational)

MIT

Research assistant

2022-23 Kinan Martin, *Probing self-supervised speech models for phonetic and phonemic information: a case study in aspiration*, awarded competitive institutional funding (Co-advised with Jon Gauthier, MIT; senior advisor Roger Levy).

UCLA

Research assistants

2017-20 13 undergraduate research assistants supervised (individual durations between 1 and 6 quarters)

External advising

Dissertation committee member

2024- Isa Cabrera, *On cumulative phonotactic effects* (UCLA)

2023- Zhongshi (Andy) Xu, *Bayesian hierarchical learning of sonority sequencing* (UCLA)

Research experience

2022-26 **External study personnel**: NSF Grant #2214017, *Morphological Acquisition in Early Infancy: Experimental and Computational Studies*, Megha Sundara (PI) - UCLA, Connor Mayer (Co-PI) - UC Irvine
Pre-funding: carried out extensive pilot computational modeling, experimental work with adults, initial experimental work with infants, co-wrote the original grant draft with PIs.
Post-funding: employed as personnel, in charge of adult experimentation and modeling of infant phonotactic learning. *Amount awarded:* $550,000.00

2020-24 **Research assistant**: NSF Grant #2024498, *Morphological Acquisition in Early Infancy: Experimental and Computational Studies*, Megha Sundara (PI), Bruce Hayes (Co-PI) - UCLA
Pre-funding: carried out extensive pilot computational modeling, co-wrote the original grant draft and subsequent revisions with PIs.
Post-funding: employed as the graduate RA on the project, evaluated existing and newly-developed word-segmentation algorithms as possible hypothesis-generators for targeted infant experimentation. *Amount awarded:* $450,320.00

Jan. 2020 **Research assistant**: Jesse Harris - UCLA
Used pupillometry to probe language processing and linguistic knowledge; conceived and developed experiments, ran participants, developed proficiency in data processing and analysis, presented and wrote up results.

2018-19 **Research assistant**: Bruce Hayes, Megha Sundara - UCLA
Data analysis, computational modeling, and editing for NSF grant proposal "Morphological acquisition in infancy: Experimental and computational studies" - Sundara *&* Hayes (co-PI's), submitted February 2020; funded July 2020.

Fall 2017 **Research assistant**: David Goldstein - UCLA
Developed proficiency in phylogenetic methods in R, collaboratively designed assignments for LING110 (Intro. Historical Linguistics)

Summer 2016 **Research assistant**: Gareth Roberts -*Cultural Evolution of Language Lab*, UPenn
Ran participants, coded and analyzed data for three experimental semiotics tasks.

Membership & Service

To the field

2025-2029	Member, Editorial Advisory Board, *English Linguistics*
2024-2026	Annual Meeting Program Committee member, Linguistic Society of America
2019-	Mentor (ad hoc), COSWL/COGIL Pop-Up Mentoring Program
2019-	Member, Committee on LGBTQ+ [Z] Issues in Linguistics (COZIL), Linguistic Society of America
2018-19	Member, LGBT Special Interest Group, Linguistic Society of America
Dec. 9, 2018	Session Chair, CaMP 2018, USC
Nov. 12, 2016	Session Chair, 27th Annual UCLA Indo-European Conference, UCLA

University of Southern California

2024-25	Member, Computational Linguistics faculty search committee
2024-	Editor, SCLingWrap, USC Linguistics Department weekly newsletter
2024-25	Member, Colloquium committee
2024-25	Member, Bylaws committee
2024-25	Member, Chair selection consultative committee
2024-	Linguistics department representative, Cognitive Science major steering committee

UCLA

2018-21	Member, Faculty feedback committee
2018-21	Desk Czar
2018-20	Organizer, Bayesian Reading Group
2018-19	Student Member, Phonology ladder position hiring committee

Reviewing

Ad hoc	**Grants**: National Science Foundation (Linguistics)
Ad hoc	**Journals**: Natural Language & Linguistic Theory (NLLT); Phonology; Glossa; Glossa: Psycholinguistics; Journal of Psycholinguistic Research; Journal of Laboratory Phonology; Proceedings of the National Academy of Sciences (PNAS); Language; Cognitive Science; Catalan Journal of Linguistics; Language & Linguistics Compass; Phonological Data & Analysis; Linguistics Vanguard; Journal of Experimental Psychology: Learning, Memory, and Cognition; Language, Cognition, & Neuroscience
Ad hoc	**Conferences**: LabPhon, Society for Computation in Linguistics (SCiL), California Meeting on Psycholinguistics (CAMP), Southern California Undergraduate Linguistics Conference (SCULC), WCCFL, CogSci, SIGMORPHON workshops, Annual Meeting on Phonology (AMP), Linguistic Society of America annual meeting, Tu+, Bridges and Gaps between Formal and Computational Linguistics (Bri-Gap), Computational Psycholinguistics Annual Meeting, IEEE Spoken Language Technology Workshop, AMLAP

Conferences & workshops organized

April 11, 2026	Workshop Organizer, Southern California April Meeting on Phonology (SCAMP), University of Southern California
July 26-27, 2025	Workshop Co-organizer, *Abstract and Item-specific Knowledge across Frameworks and Domains*, co-located with the 2025 LSA Summer Institute, co-organized with Gaja Jarosz (UMass Amherst), Emily Morgan (UC Davis), and Volya Kapastinski (U of Oregon)

Aug. 3, 2017 Workshop Co-organizer, *Paradigm Leveling*, 23rd International Conference on Historical Linguistics, UT San Antonio - with David Goldstein (UCLA)

2016 Member, Organizing Committee of the Annual UCLA Indo-European Conference, UCLA

Affiliations

2021- Member, Cognitive Science Society

2020- Member, Association for Laboratory Phonology

2016- Member, Linguistic Society of America

2016- Associate Member, Sigma Xi: the Scientific Research Honors Society

Natural languages & technical skills

Natural languages

- English (native), French (advanced), German (beginner) - *spoken, written, reading*
- Attic Greek, Latin, Biblical Hebrew (advanced), Sanskrit (intermediate), Hittite, Classical Armenian (beginner) - *reading, philological*
- Modern Hebrew, Dime, Tohoku Japanese, Swahili, San Juan Quaihije Chatino, Acehnese, Dschang (Yemba), Korean, Romanian - *consultant work*

Technical skills

- Scripting & statistics: Python, R, Julia, JAGS, Stan, WinBUGS, Praat scripting
- Experimental: Experigen, Amazon MTurk, Prolific, IbexFarm, Linger, OpenSesame, SR Research products (E-Prime, DataViewer, EyeLink), Labvanced
- Data analysis: OTSoft, Praat phonetic analysis