

SARAH K. HARPER

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EDUCATION

- 2015-Present Ph.D. in Linguistics, University of Southern California
Preliminary Dissertation Title: *Variation in speech production and perception arises from individual differences in phonological representation.*
- 2015-2017 M.A. in Linguistics, University of Southern California
M.A. Screening Paper: *Quantifying contributions of individual constrictions to American English /ɹ/ acoustics.*
Committee: Louis Goldstein (chair), Dani Byrd, Rachel Walker
- 2010-2014 B.A. with High Distinction in Linguistics (Highest Honors) and Spanish, University of Michigan
Phi Beta Kappa, James B. Angell Scholar, University Honors
Thesis: *Phonological Influence in Third Language Acquisition: L2 Spanish Effects on the Production of L3 Portuguese.*
Committee: Patrice Beddor (chair), Nicholas Henriksen

NON-DEGREE

- Summer 2013 Linguistic Society of America Summer Institute
University of Michigan, Ann Arbor, MI
- Summer 2012 Spanish Language, Literature and Culture in Salamanca, Spain
Cursos Internacionales, Universidad de Salamanca

PUBLICATIONS

JOURNAL ARTICLES

- 2018 **Harper, S.**, Lee, S., Goldstein, L., & Byrd, D. Simultaneous electromagnetic articulography and electroglottography data acquisition of natural speech. *Journal of the Acoustical Society of America*, 144(5), EL380-385.
- 2016 Henriksen, N. & **Harper, S.** Investigating lenition patterns in south-central Peninsular Spanish /sp, st, sk/ clusters. *Journal of the International Phonetic Association*, 46(3), 287-310.

REFEREED CONFERENCE PROCEEDINGS

- 2019 **Harper, S.** The relationship between gestural timing and magnitude for American English /l/ across speech tasks. *Proceedings of the 19th International Congress of Phonetic Sciences*, Melbourne, Australia.

Last Update: 3/25/20

- 2016 **Harper, S.**, Goldstein, L., & Narayanan, S. L2 Acquisition and Production of the English Rhotic Pharyngeal Gesture. *Proceedings of the 17th Annual Conference of the International Speech Communication Association (INTERSPEECH 2016)*, San Francisco, CA.

BOOK REVIEWS

- 2014 Henriksen, N., García Amaya, L., & **Harper, S.** (2014). Review of *Prosodic Typology II: The Phonology of Intonation and Phrasing*. Sun-Ah Jun (Ed.). Oxford: Oxford University Press. *Estudios de Fonética Experimental*, 23, 296-300.

SUBMITTED AND IN PREPARATION

- Under Review **Harper, S.**, Goldstein, L., & Narayanan, S. Variability in individual constriction contributions to third formant lowering in American English /ɪ/.
- In Prep. **Harper, S.**, & Henriksen, N. Investigating L2-status effects on L3 phonological acquisition from the onset of learning: Experimental data from L1 English, L2 Spanish, and L3 Catalan.
- In Prep. **Harper, S.**, & Zevin, J. Language-specific and universal factors in the segmentation of novel onset clusters.

AWARDS AND FELLOWSHIPS

Awards

- 2020 NSF Student Scholarship, 12th International Seminar on Speech Production, Providence, Rhode Island
- 2019 Best Student Paper Award, 19th International Congress of Phonetic Sciences
- 2019 IPA Student Award, 19th International Congress of Phonetic Sciences
- 2018 IPA Student Award, 16th Annual Conference on Laboratory Phonology, Lisbon, Portugal
- 2016 Student Travel Award, 15th Annual Conference on Laboratory Phonology, Ithaca, NY
- 2014 Matt Alexander Award – University of Michigan Linguistics Department
- 2014 Student Achievement Award – University of Michigan Department of Romance Languages & Literatures

Fellowships

- 2018-2020 Pre-doctoral Fellow, Hearing and Communication Neuroscience Program (NIH T32 Training Grant) – University of Southern California
- 2015- 2020 Provost's Fellowship – University of Southern California
- 2015-2016 Graduate School Fellowship – University of Southern California

CONFERENCE PRESENTATIONS

- 2020 **Harper, S.** Variability of articulatory dimensions relates to their role in distinguishing phonological categories for individual speakers. To be presented at the 12th International Seminar on Speech Production, Providence, Rhode Island.
- 2020 **Harper, S.** Variability in articulation and acoustics relates to the differentiation of segment pairs across speakers. Poster to be presented at the 179th Meeting of the Acoustical Society of America, Chicago, Illinois.
- 2020 **Harper, S.** Consistency in difference: The relationship between articulatory variability and segment differentiation for individual speakers. Poster to be presented at LabPhon17.
- 2020 **Harper, S.** Consistency in difference: The relationship between articulatory variability and segment differentiation for individual speakers. Lightning talk and poster to be presented at *Situating phonological contrast within the production-perception loop* (Satellite workshop for LabPhon17).
- 2019 **Harper, S. & Goldstein, L.** Variability is variable: Individual differences in articulatory variation. Poster presented at the 178th Meeting of the Acoustical Society of America, San Diego, California, December 6th 2019.
- 2019 **Harper, S.** The relationship between gestural timing and magnitude for American English /l/ across speech tasks. Talk given at the 19th International Congress of Phonetic Sciences, Melbourne, Australia, August 2019.
- 2019 **Harper, S.** Intrasegmental gestural timing for American English /r/ in Isolated and Connected Speech. Talk given at Phonetics and Phonology in Europe (PaPE) 2019, Lecce, Italy, June 2019.
- 2018 **Harper, S., Goldstein, L., & Narayanan, S.** Stylistic effects on the acoustic and articulatory properties of American English rhotics. Poster presented at SoCal Hearing, Los Angeles, California, September 2018.
- 2018 **Harper, S., Goldstein, L., & Narayanan, S.** Quantifying labial, palatal and pharyngeal contributions to rhotic F3 lowering. Talk given at LabPhon 16, Lisbon, Portugal, June 2018.
- 2017 **Harper, S., Goldstein, L., & Narayanan, S.** Quantifying labial, palatal and pharyngeal contributions to third formant lowering in American English /ɹ/. Poster presented at the 174th Meeting of the Acoustical Society of America, New Orleans, Louisiana, December 5th 2017.
- 2017 **Harper, S., Lee, S., Goldstein, L., & Byrd, D.** On simultaneous electromagnetic articulography and electroglottography data acquisition. Poster presented at the 174th Meeting of the Acoustical Society of America, New Orleans, Louisiana, December 5th 2017.
- 2017 Henriksen, N., & **Harper, S.** (joint first authors). L2 status affects L3 learning from the onset of acquisition: A developmental study of L1 English, L2 Spanish and L3 Catalan. Talk given at Phonetics and Phonology in Europe (PaPE) 2017, Cologne, Germany.
- 2017 **Harper, S., Goldstein, L., & Narayanan, S.** Stylistic Effects on the Acoustic and Articulatory Properties of English Rhotics. Poster presented at Phonetics and Phonology in Europe (PaPE) 2017, Cologne, Germany.

- 2016 **Harper, S.**, Goldstein, L., & Narayanan, S. L2 Acquisition and Production of the English Rhotic Pharyngeal Gesture. Poster presented at the 17th Annual Conference of the International Speech Communication Association (INTERSPEECH), San Francisco, CA, September 2016.
- 2016 **Harper, S.** Phonological Influence in Third Language Acquisition: L2 Spanish Effects on the Production of L3 Portuguese Voiced Stops. Poster presented at LabPhon 15, Ithaca, New York, July 2016.
- 2016 **Harper, S.** L2 Spanish Effects on L3 Portuguese Voiced Stop Production. Talk given at the 8th International Symposium on the Acquisition of Second Language Speech (New Sounds), Aarhus, Denmark, June 2016.
- 2014 Henriksen, N. & **Harper, S.** Reconsidering s-lenition: An acoustic analysis of /sp, st, sk/ clusters in Manchego Spanish. Poster presented at the Linguistics Society of America Annual Meeting, Minneapolis, Minnesota, January 4th 2014.

RESEARCH EXPERIENCE

Research Assistantships

Summer 2017,

Fall 2017,

Summer 2018,

Summer 2019 Research Assistant, Phonetics Laboratory, USC Department of Linguistics (PI: Dani Byrd)

- *Collaborated with professors, postdocs, and other research assistants on experiment design, data collection (acoustic, electromagnetic articulography and electroglottography data), and data analysis.*
- *Maintained and updated software procedures for data processing and analysis.*
- *Assisted with general laboratory management and teaching other students how to use equipment for articulatory data collection.*

Summer 2016 Research Assistant, Speech Articulation and Knowledge (SPAN) Lab, USC (PI: Shrikanth Narayanan)

- *Designed corpus studies using acoustic and real-time MRI data, collected appropriate data from corpora, and carried out acoustic and articulatory analyses.*
- *Organized participant recruitment, scheduling, and management for real-time MRI studies and corpus building.*

2013-2015 Research Assistant for Prof. Nicholas Henriksen, University of Michigan Department of Romance Languages & Literatures.

- *Collaborated with professors and other research assistants on experiment design, data collection, and acoustic data analysis for studies on Spanish, English, and Catalan.*
- *Managed undergraduate research assistants and oversaw their training in acoustic and statistical analysis.*

- 2013-2014 Assistant in Research, Michigan Project on Oral Language, Writing and Reading (M-POWR), University of Michigan School of Education (PI: Holly Craig).
- *Collected narrative speech recordings from and conducted educational assessment batteries on elementary school children as part of longitudinal study on dialect shifting and reading outcomes.*
 - *Transcribed speech recordings collected from elementary school children and coded them for various phonetic, phonological, and syntactic dialect features.*

TEACHING EXPERIENCE

Teaching Assistantships

Fall 2016, Teaching Assistant for LING 210: Introduction to Linguistics
Spring 2017, University of Southern California
Spring 2018 (Instructors: Prof. Stefan Keine, Prof. Karen Jesney)

Guest Lectures

2018 “Phonological Acquisition in a Third Language.” Spanish 487: Spanish Second Language Phonology (University of Michigan), March 2018.
2015 “Third Language Acquisition.” Spanish 487: Second Language Acquisition (University of Michigan), April 2015.

Pedagogical Tools

2018 Blaylock, R., & **Harper, S.** IPA Hangman: A pedagogical tool. Demo given at Southern California April Meeting in Phonology, April 7th, 2018.
Teaching resource available at <http://reedblaylock.com/ipahangman.html>

Training

Fall 2019 Participant in Future Faculty Teaching Institute
Center for Excellence in Teaching, University of Southern California

OTHER EMPLOYMENT

2014-2015 Elementary School English Teaching Assistant (“Auxiliar de Conversación”) CEIP Pena de Francia, Mos, Pontevedra, Spain
(Employed by the Galician government through the NALCA program)

SERVICE

Service to Profession

2020 Abstract reviewer, LabPhon17
2017 Peer Reviewer, *Studies in Hispanic and Lusophone Linguistics*
Oct. 2016 Volunteer Coordinator, 2016 Annual Meeting in Phonology at the University of Southern California

Departmental Service

- 2018-2019 Colloquium Coordinator, Graduate Students in Linguistics (GSiL), University of Southern California
- 2018-2019 Graduate Student Mentor, University of Southern California Department of Linguistics
- 2016-2017 Event Coordinator, Graduate Students in Linguistics (GSiL), University of Southern California
- 2012-2014 Student Representative, Linguistics Department Undergraduate Affairs Committee, University of Michigan

SKILLS***Technical Skills:***

Matlab (proficient)
R (proficient)
Praat (acoustic analysis
and synthesis software) (proficient)
CSS/HTML (intermediate)
Python (basic)
JavaScript (basic)

Languages:

English (native)
Spanish (proficient)
Portuguese (intermediate)