

## SARAH K. HARPER

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## EDUCATION

- Ongoing      Ph.D. in Linguistics, University of Southern California  
Preliminary Dissertation Title: *Variation in speech production and perception arises from individual differences in phonological representation.*
- May 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
- May 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

- Under Review      Lim, Y., Toutios, A., Bliesener, Y., Tian, Y., Lingala, S., Vaz, C., Sorensen, T., Oh, M., **Harper, S.**, Chen, W., Lee, Y., Töger, J., Montessorin, M., Smith, C., Godinez, B., Goldstein, L., Byrd, D., Nayak, K., and Narayanan., S. A multispeaker dataset of raw and reconstructed speech production real-time MRI video and 3D volumetric images. <https://arxiv.org/abs/2102.07896>
- 2020      **Harper, S.**, Goldstein, L., & Narayanan, S. Variability in individual constriction contributions to third formant lowering in American English /ɹ/. *Journal of the Acoustical Society of America*, 147(6), 3905-3916.
- 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.

Last Update: 4/15/21

- 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 19<sup>th</sup> International Congress of Phonetic Sciences*, Melbourne, Australia.
- 2016 **Harper, S.**, Goldstein, L., & Narayanan, S. L2 Acquisition and Production of the English Rhotic Pharyngeal Gesture. *Proceedings of the 17<sup>th</sup> 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.

#### IN PREPARATION

- In Prep. **Harper, S.** Interspeaker differences in anatomical and behavioral features do not account for idiosyncratic articulatory variability.

#### AWARDS AND FELLOWSHIPS

##### *Awards*

- 2020 NSF Student Scholarship, 12<sup>th</sup> International Seminar on Speech Production, Providence, Rhode Island (Virtual due to COVID-19)
- 2019 Best Student Paper Award, 19<sup>th</sup> International Congress of Phonetic Sciences
- 2019 IPA Student Award, 19<sup>th</sup> International Congress of Phonetic Sciences
- 2018 IPA Student Award, 16<sup>th</sup> Annual Conference on Laboratory Phonology, Lisbon, Portugal
- 2016 Student Travel Award, 15<sup>th</sup> Annual Conference on Laboratory Phonology, Ithaca, NY
- 2014 Matt Alexander Award for outstanding Honors thesis in Linguistics – University of Michigan Linguistics Department
- 2014 Student Achievement Award –University of Michigan Department of Romance Languages & Literatures

##### *Fellowships*

- 2020-2021 Graduate School Fellowship – University of Southern California
- 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

- 2021 **Harper, S.** Idiosyncratic articulatory variability as evidence for individual differences in segmental representation. Talk to be given virtually at PaPE 2021, June 22<sup>nd</sup>, 2021.
- 2021 **Harper, S.** Idiosyncratic articulatory variability reflects individual differences in segmental representation. Poster presented virtually at the 95<sup>th</sup> Linguistic Society of America Annual Meeting, January 9<sup>th</sup>, 2021.
- 2020 **Harper, S.** Variability of articulatory dimensions relates to their role in distinguishing phonological categories for individual speakers. Poster presented virtually at the 12<sup>th</sup> International Seminar on Speech Production.
- 2020 **Harper, S.** Variability in articulation and acoustics relates to the differentiation of segment pairs across speakers. Poster presented virtually at the 179<sup>th</sup> Meeting of the Acoustical Society of America.
- 2020 **Harper, S.** Consistency in difference: The relationship between articulatory variability and segment differentiation for individual speakers. Poster presented virtually at LabPhon17.
- 2020 **Harper, S.** Consistency in difference: The relationship between articulatory variability and segment differentiation for individual speakers. Lightning talk and poster presented virtually 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 178<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, California, December 6<sup>th</sup>, 2019.
- 2019 **Harper, S.** The relationship between gestural timing and magnitude for American English /l/ across speech tasks. Talk given at the 19<sup>th</sup> 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 174<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, Louisiana, December 5<sup>th</sup> 2017.
- 2017 **Harper, S., Lee, S., Goldstein, L., & Byrd, D.** On simultaneous electromagnetic articulography and electroglottography data acquisition. Poster presented at the 174<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, Louisiana, December 5<sup>th</sup> 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 17<sup>th</sup> 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 8<sup>th</sup> 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 4<sup>th</sup> 2014.

## INVITED TALKS

- 2021        Interspeaker (in)consistency in intraspeaker phonetic variability: Implications for the cognitive representation of speech sounds. Chang Lab, UCSF Department of Neurosurgery, January 20<sup>th</sup>.

## RESEARCH EXPERIENCE

### *Research Assistantships*

- Summer 2017,  
Fall 2017,  
Summer 2018,  
Summer 2019    Research Assistant, Phonetics Laboratory, USC Department of Linguistics (PI: Dani Byrd)
- Summer 2016    Research Assistant, Speech Articulation and Knowledge (SPAN) Lab, USC (PI: Shrikanth Narayanan)
- 2013-2015        Research Assistant for Prof. Nicholas Henriksen, University of Michigan Department of Romance Languages & Literatures.
- 2013-2014        Assistant in Research, Michigan Project on Oral Language, Writing and Reading (M-POWR), University of Michigan School of Education (PI: Holly Craig)

## TEACHING EXPERIENCE

### *Teaching Assistantships*

LING 210: Introduction to Linguistics (University of Southern California). 3 semesters.  
Primary Instructors: Stefan Keine (Fall 2016, Spring 2018), Karen Jesney (Spring 2017).

### *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 7<sup>th</sup>, 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

## SERVICE

### *Service to Profession*

Conference Reviewer: LabPhon17 (abstracts)

Ad-hoc Journal Reviewer: *Journal of the Acoustical Society of America*, *Studies in Hispanic and Lusophone Linguistics*

### *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  
Oct. 2016       Volunteer Coordinator, 2016 Annual Meeting in Phonology at the University of Southern California  
2012-2014      Student Representative, Undergraduate Affairs Committee, University of Michigan Department of Linguistics

## **PROFESSIONAL SKILLS**

### ***Technical Skills:***

Matlab (proficient)  
R (proficient)  
Praat (proficient)  
CSS/HTML (intermediate)  
Python (basic)

### ***Languages:***

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