

Samantha Gordon Danner, Ph.D.

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Summary & Research Interests

Ph.D. Linguist with 6+ years of experience in human subjects/experimental speech and language research. Background in experiment/lab management, quantitative data analysis, website/database management, writing and editing, teaching, and multimedia presentation. Interest in data-driven, creative, cross-disciplinary approaches to research. Research specializations include:

- Multimodal Speech Production and Perception
- Speech and Communication Kinematics
- Conversational Interaction & Convergence/Accommodation
- Phonetics, Laboratory Phonetics & Phonology, and Articulatory Phonology

Academic Education

The University of Southern California

May 2014 – Dec. 2017

Ph.D., Department of Linguistics

Effects of Speech Context on Characteristics of Manual Gesture

Chair: Louis Goldstein (additional advisement: Dani Byrd)

The University of Southern California

Aug. 2012 – May 2014

M.A., Department of Linguistics

Deriving Attraction: Influences on the Affixal Position of Derivational Morphemes

Co-Chairs: Louis Goldstein & Elsi Kaiser

LSA 2013 Linguistic Institute, University of Michigan, Ann Arbor

Jun. 2013 – Jul. 2013

5 Courses completed

The University of Texas at Austin

Aug. 2005 – Aug. 2010

Graduate *cum laude ampla et magna*

B.A. in Linguistics

Minor in Russian Language

B.A. in Plan II Liberal Arts Honors

Honors Thesis: *Gastronomic Aesthetics: The Case for Food as Art*

B.F.A. in Studio Art

Focus in Installation Sculpture, Photography, and Painting

Experience

- USC | Postdoctoral Scholar, Phonetics Laboratory** May 2018 – Present
- Publish original research associated with NIH grant *Prosody and Articulation*, to Prof. D. Byrd
 - Meet regularly with graduate students/research assistants working in the lab and supervise/facilitate research and lab use
 - Manage lab operations and equipment
- USC | Database Management Assistant, SPAN Group** Oct. 2015 – Sept. 2017
- Updated and maintained experiment database (SQL) with recently collected MRI data
 - Collaborated with other SPAN group members on planning for future database storage and design needs and promoting database availability to researchers
- USC | Phonetics Laboratory Research Assistant** Jan. 2015 – Aug. 2017
- Collaborated with professors, postdocs, and other research assistants on large-scale project development and grant-funded research using electromagnetic articulography (EMA) and related motion tracking and acoustic technologies
 - Recruited research participants, managed lab schedule and experiment protocols, and collected and analyzed experiment data with other researchers and professors
 - Worked with team to write up relevant results for conference presentation and publication
- Los Angeles Public Libraries | Adult Literacy Program Tutor** June 2014 – Present
- Facilitate learning of first/second language reading, writing and comprehension skills
 - Work with students to apply reading and writing to daily life in tasks such as applying for jobs, renting materials from library, registering to vote, etc.
 - Report monthly progress and student needs to Adult Literacy Program Coordinator
- USC | Developer, LING 275: Language and Mind Website Project** July 2013 – Aug. 2014
- Collaborated with professors awarded USC's Fund for Innovative Undergraduate Teaching to redesign and standardize curriculum and develop an enhanced laboratory component for LING 275: Language and Mind course
 - Programmed and implemented a Javascript web app to give students experience with collecting experimental data
 - Designed and maintained a website/database to house app and related course information
- USC | Teaching Assistant, LING 275: Language and Mind** Spring 2013 – Fall 2014
- Developed and implemented lesson plans for lab/discussion sections in collaboration with professors and other teaching assistants
 - Led weekly lab sections of small groups of students; reinforced lecture material through hands-on learning activities and introduced new material as relevant
 - Graded student work and used grading data to improve student progress and understanding
 - Met with students for individual tutoring and counseling during weekly office hours and by appointment
- UT Austin | UT Sound Lab Undergraduate Research Assistant** Oct. 2011 – May 2012
- Compiled subject background information and assisted with experiments for the Basic English Sentence (BES) project

- Completed reliability check for BES project with colleagues at Queens College—CUNY

Humanities Texas | Website Program Assistant

Aug. 2011 – May 2012

- Organized and managed archival material using Drupal-based CMS
- Formatted, edited, and updated web content for migration to new website
- Created interactive and searchable content for student and educator use

Publications and Conference Proceedings

- 2018 Danner, S. G., Barbosa, A. V., & Goldstein, L. (2018). Quantitative analysis of multimodal speech data. *Journal of Phonetics*, 71, 268-283.
- 2018 Lee, Y., Danner, S. G., Parrell, B., Lee, S., Goldstein, L., & Byrd, D. (2018). Articulatory, acoustic, and prosodic accommodation in a cooperative maze navigation task. *PLoS ONE*, 13(8).
- 2016 Gordon Danner, S., Goldstein, L., Vatikiotis-Bateson, E., Fuhrman, R., Vilela Barbosa, A. (2016, December). Using Optical Flow and Electromagnetic Articulography in Multimodal Speech Research. *Proceedings of the Sixteenth Australasian International Conference on Speech Science and Technology*.
- 2016 Danner, S. G. (2016, June). Selectional Effects in Allomorph Competition. In *Proceedings of the Annual Meetings on Phonology* (Vol. 2).
- 2003 Gordon, S. (2003). Mind the Gap: Works from Houston Area High Schools [Perspectives 136]. Exhibition Catalogue Introduction.

Manuscripts

- 2017 Gordon Danner, S. (2017). Effects of Speech Context on Characteristics of Manual Gesture. Ms, USC
- 2016 Gordon Danner, S. (2016). On the Coordination of Vocal Tract and Manual Gestures. Ms, USC
- 2014 Gordon, S. (2014). Selectional Effects in Allomorph Competition. Ms, USC
- 2014 Gordon, S. (2014). Deriving Attraction: Influences on the Affixal Position of Derivational Morphemes. Ms, USC
- 2010 Gordon, S. (2010). Gastronomic Aesthetics: The Art of Food and Food as Art. Ms, UT Austin

Conference Presentations

- 2018 *Hand gesture density in prosodically important speech regions*. Samantha Gordon Danner. 176th Meeting of the Acoustical Society of America, Victoria, B.C., Canada. (Poster presentation)
- 2018 *Assessing Multimodal Speech-Gesture Coordination: Correlation Map Analysis for Signal Comparison*. Samantha Gordon Danner. 176th Meeting of the Acoustical Society of America, Victoria, B.C., Canada. (Poster presentation)

- 2017** *Task-dependent Coordination of Vocal Tract and Manual Gestures.* Samantha Gordon Danner, Louis Goldstein & Eric Vatikiotis-Bateson. Linguistic Society of America 2017 Annual Meeting, Austin, TX. (20-minute talk)
- 2016** *Using Optical Flow and Electromagnetic Articulography in Multimodal Speech Research.* Samantha Gordon Danner, Louis Goldstein, Eric Vatikiotis-Bateson, Robert Fuhrman, & Adriano Vilela Barbosa. 16th Speech Science and Technology Conference, Western Sydney University (Parramatta, Australia). (20-minute talk)
- 2016** *Acoustic and Articulatory Measures of Convergence in a Cooperative Maze Navigation Task.* Yoonjeong Lee, Samantha Gordon Danner, Benjamin Parrell, Sungbok Lee, Louis Goldstein, & Dani Byrd. 5th Joint Meeting of the Acoustical Society of America and Acoustical Society of Japan (Honolulu, Hawaii). (Poster presentation given by Yoonjeong Lee)
- 2016** *USC-TIMIT rtMRI Speech Production Database.* Samantha Gordon Danner. Annual Meetings on Phonology 2016, University of Southern California (Invited Tutorial presentation)
- 2016** *Prosodic Convergence During and After a Cooperative Maze Task.* Yoonjeong Lee, Samantha Gordon Danner, Benjamin Parrell, Sungbok Lee, Louis Goldstein & Dani Byrd. LabPhon 15, Cornell University. (Poster presentation)
- 2015** *Positional Preference and Response Latency in a Complex Word Production Task.* American International Morphology Meeting 3, University of Massachusetts Amherst. (Poster presentation)
- 2015** *Speech Onset Latency and Preferred Affix Position.* Architectures and Mechanisms of Language Processing, University of Malta. (Poster presentation)
- 2015** *Factors Informing Conditioned Allomorph Selection.* 28th CUNY Conference on Sentence Processing, USC. (Poster presentation)
- 2014** *What Do You Call a Person From...?* Annual Meetings on Phonology 2014, MIT. (Poster presentation)
- 2014** *Positioning English Derivational Affixes in the Lexicon.* 9th International Conference on the Mental Lexicon, Niagara-on-the-Lake, ON, Canada. (Poster presentation)

Honors and Awards

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- 2014** USC Dornsife General Education Graduate Assistant Award (\$1000)
- 2014** USC Center for Excellence in Teaching TA Award
- 2013** Linguistic Society of America: Summer Institute Fellowship recipient (\$1700)
- 2012** USC: Frederick and Dorothy Quimby Memorial Scholarship (tuition remission & living stipend)
- 2010** Phi Beta Kappa Honor Society
- 2008** Phi Kappa Phi Honor Society
- 2005 – 2010** University of Texas at Austin University Honors Student
- 2006 – 2010** University of Texas at Austin Dean's Scholar in the College of Fine Arts
- 2009** University Co-op Undergraduate Research Fellowship Award (\$1000)
- 2008** University of Texas Plan II Travel Grant (\$500)

Technical and Language Proficiencies

Technical: MATLAB (GUIs, experiment instrument control, computer vision), R (statistical analysis), SAS (statistical analysis), Python (computational linguistics methods & computer vision), Praat (advanced acoustics analysis and scripting), Microsoft Office Suite (large-scale data management, manuscripts), HTML5/CSS3/Javascript/SQL (website and database design and development), Adobe Creative Suite (photo and image editing, layout design)

Languages: English (Native), Russian (Intermediate), Spanish (Proficient)

Professional Memberships & Lab Affiliations

Acoustical Society of America Member	2018 – Present
USC Phonetics Lab Postdoctoral Scholar	2018 – Present
Association for Laboratory Phonology Member	2016 – Present
USC Phonetics Lab Research Assistant	2015- 2017
USC Psychology ZevinLab Member	2014 – 2015
Linguistic Society of America Member	2013 – Present
USC Speech Production and Articulation Knowledge group Member	2013 – Present
USC Linguistics Psycholinguistics Lab meeting Member	2012 – 2017
USC Linguistics PhonLunch Member	2012 – 2017