

# Jeremy Steffman

Northwestern University  
Department of Linguistics  
2016 Sheridan Road  
Evanston, IL 60208

✉ [jeremy.steffman@northwestern.edu](mailto:jeremy.steffman@northwestern.edu)  
🌐 <http://jsteffman.github.io>

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## EMPLOYMENT

2021-      Postdoctoral Research Fellow  
            Department of Linguistics  
            Northwestern University

## EDUCATION

December      University of California, Los Angeles  
2020      PhD, Linguistics  
            Dissertation: *Prosodic prominence in vowel perception and spoken language processing*  
            Committee: Sun-Ah Jun (chair), Pat Keating, Megha Sundara, and Taehong Cho

June      University of California, Los Angeles  
2018      MA, Linguistics

May      University of California, Berkeley  
2016      BA, Linguistics and French  
            *Highest Distinction in Letters & Science*

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## PUBLICATIONS

### JOURNAL ARTICLES

2022      Steffman, J., Kim, S., Cho, T. & Jun, S.-A. Prosodic phrasing mediates listeners' perception of temporal cues: Evidence from the Korean Accentual Phrase. *Journal of Phonetics*, 95, 101156.

            Katsuda, H. & Steffman, J. Asymmetrical roles of segment and pitch accent in Japanese spoken word recognition. *Journal of the Acoustical Society of America, Express Letters* 2, 065201.

            Sundara, M., Zhou, Z.L., Breiss, C., Katsuda, H. & Steffman, J. Infants' developing sensitivity to native language phonotactics: A meta-analysis. *Cognition*, 221, 104993.

- 2021 Steffman, J. & Jun, S.-A. Tonal cues to prosodic structure in rate-dependent speech perception. *The Journal of the Acoustical Society of America*, 150(5), 3825-3837.
- Steffman, J. Rhythmic and speech rate effects in the perception of durational cues. *Attention, Perception & Psychophysics*, 83(8), 3162-3182.
- Steffman, J. Contextual prominence in vowel perception: Testing listener sensitivity to sonority expansion and hyperarticulation. *The Journal of the Acoustical Society of America Express Letters*. 1, 045203.
- Steffman, J. Prosodic prominence effects in the processing of spectral cues. *Language, Cognition and Neuroscience*, 36(5), 586-611.
- Steffman, J. & Katsuda, H. Intonational structure influences perception of contrastive vowel length: The case of phrase-final lengthening in Tokyo Japanese. *Language and Speech*, 64(4), 839-858.
- 2019 Steffman, J. & Jun, S.-A. Perceptual integration of pitch and duration: Prosodic and psychoacoustic influences in speech perception. *The Journal of the Acoustical Society of America*, 146(3), EL251-EL257.
- Steffman, J. Phrase-final lengthening modulates listeners' perception of vowel duration as a cue to coda stop voicing. *The Journal of the Acoustical Society of America*, 145(6), EL560-EL566.
- Steffman, J. Intonational structure mediates speech rate normalization in the perception of segmental categories. *Journal of Phonetics*, 74, 114-129.
- 2018 Steffman, J. Nominal inflection in the Safané dialect of Dafing: Ternary quantity contrasts and morphologically conditioned phonology. *Journal of West African Languages*, 45(1), 89-124.
- PAPERS APPEARING IN CONFERENCE PROCEEDINGS
- forthcoming Chernyak, B. R., Simon, T. B., Segal, Y., Steffman, J., Chodroff, E., Cole, J., & Keshet, J. DeepFry: Identifying Vocal Fry Using Deep Neural Networks. *Proceedings of the 23rd INTERSPEECH Conference*.
- Weller, J., Faytak, M., Steffman, J., Mayer, C., Teixeira, G. & Tankou, R. Supralaryngeal articulation across voicing and aspiration in Yemba vowels. *Proceedings of the 52nd meeting of the Association of Contemporary African Linguistics*.
- 2022 Steffman, J., Shattuck-Hufnagel, S. & Cole, J. The rise and fall of American English pitch accents: Evidence from an imitation study of rising nuclear tunes. *Proceedings of the 11th International Conference on Speech Prosody*.
- Cole, J., Tilsen, S. & Steffman, J. Shape matters: Machine classification and listeners' perceptual discrimination of American English intonational tunes. *Proceedings of the 11th International Conference on Speech Prosody*.
- 2021 Katsuda, H. & Steffman, J. Prominence-boundary interactions in speech perception: Evidence from Japanese vowel length. *Proceedings of the 1st International Conference on Tone and Intonation*.

Cole, J. & Steffman, J. The primacy of the rising/non-rising dichotomy in American English intonational tunes. *Proceedings of the 1st International Conference on Tone and Intonation*.

Steffman, J. & Jun, S.-A. Prosodic prominence in speech perception: The influence of focus prosody on the perception of durational and spectral cues. *Proceedings of the 38th annual meeting of the West Coast Conference on Formal Linguistics (WCCFL)*, 406-416.

2020 Katsuda, H. & Steffman, J. Intonational cues to prosodic boundary influence perception of contrastive vowel length in Tokyo Japanese. *Proceedings of the 10th International Conference on Speech Prosody*, 56-60.

2019 Steffman, J. & Jun, S.-A. Effects of prosodic structure versus durational context on the perception of segmental categories: The case of focus realization. *Proceedings of the International Congress of Phonetic Sciences 2019*.

Steffman, J. Testing the influence of distal rhythmic structure on listeners' perception of durational cues. *Proceedings of International Congress of Phonetic Sciences 2019*.

Steffman, J. & Jun, S.-A. Listeners integrate pitch and durational cues to prosodic structure in word categorization. *Proceedings of the annual meeting of the Linguistic Society of America*, 4(1).

2018 Steffman, J. Listeners are sensitive to prosody in segmental categorization. *Proceedings of the 9th International Conference on Speech Prosody*, 274-278.

Steffman, J. Phrase final lengthening modulates categorization of vowel length as a cue to obstruent voicing in English. *Proceedings of Meetings on Acoustics*, 33.

2017 Steffman, J. Tonal cues to prosodic structure modulate voice onset time categorization. *Proceedings of Meetings on Acoustics*, 31.

#### BOOK REVIEWS

2021 Steffman, J. Review of: Gussenhoven, C. & Chen, A. (Eds.) *The Oxford Handbook of Language Prosody*. *Phonology*, 38(3), 527-533.

#### EDITED VOLUMES

2016 Rolle, N., Steffman, J. & Sylak-Glassman, J. (Eds.) *Proceedings of the Thirty Sixth Annual Meeting of the Berkeley Linguistics Society*, February 6-7, 2010. Berkeley: Berkeley Linguistics Society.

## PRESENTATIONS<sup>1</sup>

#### CONFERENCE TALKS

2022 Steffman, J. "Phonetic cues to prominence in segmental perception and online processing: The case of vowel-initial glottalization in American English." Presented virtually at the 18th Conference on Laboratory Phonology. June 23-25.

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<sup>1</sup>\* indicates presenting author(s)

\*Cole, J., Steffman, J., Cox, L. & Shattuck-Hufnagel, S. "Nuclear Tunes lost and found: Modeling intonational tunes in American English with labeled vs. unlabeled data." Presented virtually at the 18th Conference on Laboratory Phonology. June 23-25.

\*Cole, J., Tilsen, S. & Steffman, J. "Shape matters: Machine classification and listeners' perceptual discrimination of American English intonational tunes." Presented at the 11th International Conference on Speech Prosody. Lisbon, Portugal. May 23-26.

2021

\*Cole, J. & Steffman, J. "The primacy of the rising/non-rising dichotomy in American English intonational tunes." Presented virtually at the 1st International Conference on Tone and Intonation. Sondberg, Denmark. December 6-9.

\*Katsuda, H. & \*Steffman, J. "Prominence-boundary interactions in speech perception: evidence from Japanese vowel length." Presented at the 1st International Conference on Tone and Intonation. Sondberg, Denmark. December 6-9.

\*Steffman, J. & Cole, J. "Intonational tunes in imitative speech: Are phonological contrasts maintained?" Presented at the 26th Annual Mid-continental Phonetics and Phonology Conference. Chicago, IL. September 18.

\*Weller, J., Faytak, M., Steffman, J., Mayer, C., Teixeira, G. & Tankou, R. "Tongue root position and laryngeal state in Yemba vowels." Presented virtually at the 52nd meeting of the Association of Contemporary African Linguistics. Gainesville, FL. April 8-10.

\*Faytak, M., Steffman, J. & Tankou, R. "Phonetics of voiced aspirates in Yemba (Dschang)." Presented virtually at the 52nd meeting of the Association of Contemporary African Linguistics. Gainesville, FL. April 8-10.

Steffman, J. "Prominence effects in vowel perception: Testing sonority expansion and hyperarticulation." Presented virtually at the 95th annual meeting of Linguistic Society of America. San Francisco, CA. January 7-10.

\*Steffman, J., Kim, S., Cho, T. & Jun, S.-A. "Prosodic phrasing is integrated in segmental speech perception: Evidence from the Korean Accentual Phrase." Presented virtually at the 95th annual meeting of Linguistic Society of America. San Francisco, CA. January 7-10.Th

\*Katsuda, H. & \*Steffman, J. "The role of segment and pitch accent in Japanese spoken word recognition." Presented virtually at the 95th annual meeting of Linguistic Society of America. San Francisco, CA. January 7-10 (First place LSA student abstract award).

\*Faytak, M. & Steffman, J. "Mixed voice in Yemba voiced aspirates." Presented virtually at the 95th annual meeting of Linguistic Society of America. San Francisco, CA. January 7-10.

2020

\*Katsuda, H. & Steffman, J. "Intonational cues to prosodic boundary influence perception of contrastive vowel length in Tokyo Japanese." Presented virtually at the 10th International Conference on Speech Prosody. Tokyo, Japan. May 25-28.

\*Steffman, J. & Jun, S.-A. “Prosodic prominence in speech perception: the influence of focus structure on the perception of durational and spectral cues.” Presented at the 38th meeting of the West Coast Conference on Formal Linguistics. Vancouver, BC. March 6-8.

\*Steffman, J. & Jun, S.-A. “Prosodic cues facilitate speech rate normalization: exploring listener sensitivity to prosody in speech perception.” Presented at the 94th annual meeting of Linguistic Society of America. New Orleans, LA. January 2-5.

2019 \*Steffman, J. & Jun, S.-A. “Effects of prosodic structure versus durational context on the perception of segmental categories: The case of focus realization.” Presented at the International Congress of Phonetic Sciences 2019. Melbourne, Australia. August 5-9.

Steffman, J. “Distal rhythmic structure and speech rate in perception: exploring prosodic and rate-dependent influences.” Presented at the Hanyang International Symposium on Phonetics and Cognitive Sciences of Language (HISPhonCog 2019). Seoul, South Korea. May 24-25.

\*Steffman, J. & Jun, S.-A. “Listeners integrate pitch and durational cues to prosodic structure in word categorization.” Presented at the 93rd annual meeting of Linguistic Society of America. New York, NY. January 3-6.

2018 Steffman, J. “Intonational categories and implicit speech rate normalization: evidence for awareness of prosody in rate dependent speech perception.” Presented at Experimental and Theoretical Advances in Prosody 4. Amherst, MA. October 11-13.

Steffman, J. “Listeners are sensitive to prosody in segmental categorization.” Presented at the 9th International Conference on Speech Prosody. Poznań, Poland. June 13-16.

Steffman, J. “Intonational structure mediates speech rate normalization in the perception of speech segments.” Presented at the Hanyang International Symposium on Phonetics and Cognitive Sciences of Language (HISPhonCog 2018). Seoul, South Korea. May 18-19.

Steffman, J. “Linguistically informed rate normalization: Intonational influences on segmental categorization.” Presented at the 44th Meeting of the Berkeley Linguistics Society. Berkeley, CA. February 9-11.

#### CONFERENCE POSTERS

upcoming \*Chernyak, B. R., Simon, T. B., Segal, Y., Steffman, J., Chodroff, E., Cole, J., & Keshet, J. “DeepFry: Identifying Vocal Fry Using Deep Neural Networks.” To be presented at the 23rd INTERSPEECH Conference. Incheon, South Korea. September 18-22.

2022 \*Steffman, J., Shattuck-Hufnagel, S. & \*Cole, J. “The rise and fall of American English pitch accents: Evidence from an imitation study of rising nuclear tunes.” Presented at the 11th International Conference on Speech Prosody. Lisbon, Portugal. May 23-26.

\*Weller, J., Steffman, J., Cortes, F. & Mantenuto, I. “Glottalization and tonal contrasts in San Sebastián del Monte Mixtec rearticulated vowels.” Presented virtually at the 95th annual meeting of Linguistic Society of America. Washington, DC. January 6-9.

- 2021 \*Weller, J. & Steffman, J. "Effects of aspiration and voicing on vowel acoustics in Yemba." Presented virtually at the 95th annual meeting of Linguistic Society of America. San Francisco, CA. January 7-10.
- 2020 Steffman, J. "Prominence effects on the processing of spectral cues: testing sonority expansion in perception." Presented virtually at LabPhon 17. Vancouver, Canada. July 6-8.
- \*Faytak M., Steffman, J. & Tankou R. "True voiced aspirates in Yemba." Presented virtually at LabPhon 17. Vancouver, Canada. July 6-8.
- Steffman, J. "Prominence effects on pre-lexical processing: time-course evidence from vowel perception." Presented at the 33rd annual CUNY Conference on Human Sentence Processing. Amherst, MA. March 19-21.
- 2019 \*Katsuda, H. & Steffman, J. "Exploring the influence of intonational structure on perception of contrastive vowel length in Tokyo Japanese." Presented at the 178th Meeting of the Acoustical Society of America. San Diego, CA. December 2-6.
- \*Steffman, J. & Sundara, M. "Biphone probability and neighborhood density effects on phonetic categorization." Presented at the 178th Meeting of the Acoustical Society of America. San Diego, CA. December 2-6.
- Steffman, J. "Influences of preceding speech rate and prosodic position on listeners' perception of durational cues." Presented at the 178th Meeting of the Acoustical Society of America. San Diego, CA. December 2-6.
- Steffman, J. "Testing the influence of distal rhythmic structure on listeners' perception of durational cues." Presented at the International Congress of Phonetic Sciences 2019. Melbourne, Australia. August 5-9.
- Steffman, J. "Distal rhythmic patterns influence listeners' processing of phonetic cues." Presented at the 32nd Annual CUNY Conference on Human Sentence Processing. Boulder, CO. March 29-31.
- 2018 Steffman, J. "Contextual effects of duration and F0 on segmental categorization: Intonation matters." Presented at LabPhon 16. Lisbon, Portugal. June 19-22.
- Steffman, J. "Listeners compensate for prosodic position when categorizing word-final obstruents." Presented at the 175th Meeting of the Acoustical Society of America. Minneapolis, MN. May 7-11.
- 2017 Steffman, J. "F0 as a cue to prosodic structure in voice onset time categorization." Presented at the 174th Meeting of the Acoustical Society of America. New Orleans, LA. December 4-8.
- INVITED TALKS
- 2022 \*Cole, J. & Steffman, J. "Intonational encoding in memory representations: Imitating nuclear tunes in American English." Presented at the GRadiance in Intonation (GRIN) workshop, Speech Prosody 2022. May 27.
- Steffman, J. "Prosodic prominence in speech perception." Research talk presented virtually at The University of Edinburgh. May 11.

Steffman, J. “Integrating prosodic prominence in speech perception: Studies in the perception of segmental contrasts.” Presented virtually at the Harvard University Linguistics colloquium series. February 25.

\*Cole, J. & \*Steffman, J. “Modeling intonational tunes in American English with labeled vs. unlabeled data.” Presented virtually at the Northwestern University Phonatics talk series. January 26.

2021 Steffman, J. “Integrating prosodic context in speech perception.” Presented virtually at the Northwestern University Phonatics talk series. April 28.

Steffman, J. “Integrating prosodic context in speech perception.” Presented virtually at the Rutgers Prosody Lab. March 30.

Steffman, J. “Prosodic context in speech perception.” Presented virtually at the UCLA Linguistics colloquium series. February 19.

2019 Steffman, J. “Exploring rhythmic effects in speech perception.” Presented at the UC Santa Barbara phonetics seminar. Santa Barbara, CA. May 10.

Steffman, J. “Prosody mediates listeners’ perception of durational cues.” Presented at UC Berkeley phonetics and phonology forum. Berkeley, CA. February 25.

2016 Steffman, J. “Prosodic transfer: A phonetic study of L2 English prosody produced by L1 French speakers.” Presented at UC Berkeley phonetics and phonology forum. Berkeley, CA. March 14.

## GRANT SUPPORT

2021- Memory and context effects on representations of variation in phrasal intonation (NSF BCS-1944773)  
PI: Jennifer Cole; Role: Postdoctoral researcher

2021- Speech sound perception and production in Spanish/English bilingual preschoolers (NIH R15 DC019493)  
PI: Simona Montanari; Role: Consultant

## SCHOLARSHIP/FELLOWSHIPS, AWARDS AND HONORS

2020 Ladefoged Scholarship, UCLA Dept. of Linguistics (\$600)

2020-21 Dissertation Year Fellowship, UCLA Graduate Division (\$20,000)

2019-20 Mellon Pre-Dissertation Fellowship (\$7,915)

2019 IPA Student Travel Award, ICPhS 2019 (£600)

2018-19 Graduate Research Mentorship Fellowship, UCLA Graduate Division (\$20,000)

2018 Graduate Summer Research Mentorship Fellowship, UCLA Graduate Division (\$6,000)

2017 Graduate Summer Research Mentorship Fellowship, UCLA Graduate Division (\$6,000)

2015 UC Berkeley Paul Brun Memorial Scholarship (\$1,573)

First place LSA Student Abstract Award 2021 (with Hironori Katsuda)

Citation for Outstanding Achievement in the Major, UC Berkeley Linguistics

Departmental Certificate, UC Berkeley French

Phi Beta Kappa, UC Berkeley

Dean’s List Honors, UC Berkeley

## TEACHING

### INSTRUCTOR, UCLA

spring 2020 College Teaching of Linguistics (LING 495)  
summer 2019 Phonology I (LING 120A)

### TEACHING ASSOCIATE/ASSISTANT, UCLA

winter 2020 Experimental Phonetics (LING 104). Taught by Sun-Ah Jun.  
spring 2019 Introduction to Applied Phonetics (LING 102). Taught by Megha Sundara.  
spring 2018 Phonological Structures (LING 119A). Taught by Meredith Landman.  
winter 2018 Phonology II (LING 165A). Taught by Roslyn Burns.  
fall 2017 Introduction to Linguistic Analysis (LING 20). Taught by Dylan Bumford.

### WORKSHOPS AND GUEST LECTURES

1/12/22 “Using VoiceSauce for voice quality research.” Workshop in Northwestern’s Prosody and Speech Dynamics Lab  
8/18/21 “Modeling intonational tunes with Generalized Additive Mixed Models.” Workshop in Northwestern’s Prosody and Speech Dynamics Lab  
7/9/19 “EGG as a tool in phonetic data analysis.” Workshop held in UCLA’s Field Methods (LING 160)  
5/1/18 “Rule ordering.” Guest lecture in UCLA’s Phonological Structures (LING 119A)  
3/1/18 “Phrasal phonology in OT.” Guest lecture in UCLA’s Phonology II (LING 165A)

## PROFESSIONAL ACTIVITIES

### REVIEWING (AD HOC)

Journals Attention, Perception and Psychophysics; Journal of the Acoustical Society of America; Journal of Phonetics; Journal of West African Languages; Language Awareness; Language, Cognition and Neuroscience; Language and Speech; Lingua; Studies in Second Language Acquisition  
Conferences LabPhon, Annual Meeting of the Linguistic Society of America, Southern California Undergraduate Linguistics Conference, Speech Prosody

### PROFESSIONAL MEMBERSHIP

since 2021 Psychonomic Society  
since 2019 International Phonetic Association  
since 2018 Association for Laboratory Phonology  
since 2017 Acoustical Society of America  
since 2016 Linguistic Society of America

### SERVICE

2020-22 Organizer for the Northwestern Phonatics group  
2019-20 TA Consultant for the UCLA Department of Linguistics  
2019-20 UCLA ladder faculty (computational linguistics) search committee student member



2018-19 Chairperson of the UCLA Colloquium Committee  
2018-19 Vice President of the UCLA Graduate Linguistics Circle

## TECHNICAL SKILLS

Experiments: OpenSesame, Appsobabble, Qualtrics, SR Experiment Builder, Ibex Farm, Labvanced

Acoustic analysis: Praat, Audacity, PCquirerX, VoiceSauce

Speech synthesis and manipulation: Praat, Synthworks, MATLAB (STRAIGHT)

Eyetracking: SR Eyelink 1000, Labvanced

Electroglottography: Glottal enterprises EG2, EGGWorks

Programing: R, Praat, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS, MATLAB, Python