

Miran Oh

University of Southern California, Department of Linguistics
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RESEARCH INTEREST

Phonetics, Speech Production and Articulation, Computational Linguistics, Prosody, Speech Imaging

EDUCATION

- 2016 – (present) University of Southern California
Ph.D. Candidate in Linguistics
Dissertation (in progress):
“Articulatory Dynamics and Stability of Multi-gesture Complexes”
Advisor: Dani Byrd
- 2018 University of Southern California
M.A. in Linguistics
- 2015 – 2016 Stony Brook University, New York
Ph.D. program in Linguistics
- 2013 – 2015 Ewha Womans University, South Korea
M.A. in English Language and Literature (Linguistics)
Advisor: Eunjin Oh
- 2009 – 2013 Ewha Womans University, South Korea
B.A. in English Language and Literature
- 2011 – 2012 University of California at Davis
Exchange student

HONORS AND AWARDS

- 2021 – 2022 Morkovin Endowed Fellowship, *USC*
- Dec 2020 Outstanding Student Presentation Award, *International Seminar on Speech Production*
- May 2020 Raymond H. Stetson Scholarship in Phonetics and Speech Science – Honorable Mention, *Acoustical Society of America*
- 2018 – 2020 ASA Student Council Representative, *Acoustical Society of America*
- 2017 – 2021 Graduate Student Affiliate, *Korean Studies Institute, USC*
- 2016 Ph.D. Fellowship in the Social Sciences, *Dornsife College, USC*
- Aug 2015 Graduate School Award for Dissertation with Highest Honors, *Ewha Womans Univ.*
- 2012 Honors Scholarship, Dean's List, *Ewha Womans University*
- 2009 – 2014 Scholarship, *Ewha Womans University*

REFEREED PUBLICATIONS

- M. Oh, D. Byrd, & S. Narayanan. (Accepted). Leveraging real-time MRI for illuminating linguistic velum action. In *Proceedings of INTERSPEECH 2021*, Brno, Czech Republic.
- Y. Lim, A. Toutios, Y. Bliesener, Y. Tian, S. Lingala, C. Vaz, T. Sorensen, **M. Oh**, S. Harper, W. Chen, Y. Lee, J. Töger, M. Montesserin, C. Smith, B. Godinez, L. Goldstein, D. Byrd, K. Nayak, & S. Narayanan. (Under review). A multispeaker dataset of raw and reconstructed speech production real-time MRI video and 3D volumetric images. *Nature Scientific Data*. <https://arxiv.org/abs/2102.07896>
- S. Shih, J. Ackerman, N. Hermalin, S. Inkelas, H. Jang, J. Johnson, D. Kavitskaya, S. Kawahara, **M. Oh**, R. Starr, & A. Yu. (Submitted). Cross-linguistic and language-specific sound symbolism: Pokémonastics, *Language*. lingbuzz/004725.
- M. Oh, & D. Byrd. (2019). Syllable-internal corrective focus in Korean. *Journal of Phonetics*, 77, 100933.
- M. Oh, & Y. Lee. (2018). ACT: An Automatic Centroid Tracking tool for analyzing vocal tract actions in real-time magnetic resonance imaging speech production data, *Journal of the Acoustical Society of America – Express Letter*, 144(4), EL290-EL296.
- M. Oh. (2016). The influence of power relations on English L1 and L2 speakers' oral requests. In *Proceedings of Speech Prosody 2016*, Boston, MA (pp. 965-969).
- M. Oh. (2015). Lonely negative words in English and Korean, *English Language and Linguistics, Journal of the ELSOK (English Linguistics Society of Korea)*, 21(2), 83-100.
- M. Oh. (2014). A corpus study of overpassivization in Korean EFL learners' writings, *Korean Journal of Applied Linguistics*, 30(3), 179-196.
- M. Oh. (2014). Adaptation of English liquid loans in Korean: An OT analysis on the distinct patterns of /r/ and /l/, *Language Research*, 50(2), 387-410.

CONFERENCE PRESENTATIONS

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| 2020 | M. Oh, D. Byrd, L. Goldstein, S. S. Narayanan. Velum-oral timing and its variability in Korean nasal consonants. <i>The 12th International Seminar on Speech Production</i> . [Received Outstanding Student Presentation Award] |
| 2020 | M. Oh, D. Byrd. Internal gestural coordination for derived long nasals. <i>Acoustical Society of America (ASA) 179th Meeting</i> , Acoustics Virtually Everywhere (AVE). |
| 2020 | M. Oh, Y. Lee. Focusing on vertical larynx action dynamics. <i>Acoustical Society of America (ASA) 179th Meeting</i> , Acoustics Virtually Everywhere (AVE). |
| 2020 | M. Oh. Prosodic modulation and the role of the segmental gestural molecule. <i>Laboratory Phonology 17</i> , Vancouver, Canada. |
| 2019 | M. Oh, D. Byrd. Oral-velum actions in the articulation of nasal juncture geminates and singletons. <i>Acoustical Society of America (ASA) 178th Meeting</i> , San Diego, CA. |

- 2019 M. Oh, D. Byrd. Focus-induced articulatory prominence on velum actions in nasal geminates. *Workshop on Prominence between Cognitive Functions and Linguistic Structures, satellite workshop at Phonetics and Phonology in Europe (PaPE)*, Bari, Italy.
- 2019 M. Oh, D. Byrd, L. Goldstein, S. S. Narayanan. Vertical larynx actions and larynx-oral timing in ejectives and implosives. *3rd Phonetics and Phonology in Europe (PaPE)*, Lecce, Italy.
- 2019 M. Oh, D. Byrd. The prosody of corrective focus and its domain in Korean. *Acoustical Society of America (ASA) 177th Meeting*, Louisville, KY.
- 2018 M. Oh, D. Byrd, L. Goldstein, S. S. Narayanan. Enriching the understanding of glottalic consonant production: Vertical larynx movement in Hausa ejectives and implosives. *Acoustical Society of America (ASA) 176th Meeting*, Victoria, Canada.
- 2017 M. Oh, A. Toutios, D. Byrd, L. Goldstein, S. S. Narayanan. Tracking larynx movement in real-time MRI data. *Acoustical Society of America (ASA) 174th Meeting*, New Orleans, LA.
- 2017 M. Oh. Onset effects on a tautosyllabic vowel: Implications for weight. *The 25th Manchester Phonology Meeting (25mfm)*, Manchester, UK.
- 2016 M. Oh. The influence of power relations on English L1 and L2 speakers' oral requests. In *Proceedings of Speech Prosody 2016*, Boston, MA (pp. 965-969).
- 2015 M. Oh. Effects of onset on pitch and vowel duration. *The 9th Graduate Seminar of English Language and Literature Association of Korea (ELLAK)*, Seoul, Korea.
- 2014 M. Oh. Sociophonetic variations of English "request" by Korean EFL learners. *The 9th International Conference of English Language and Literature Association of Korea (ELLAK)*, Seoul, Korea.
- 2014 M. Oh. Perception of English liquid loans in Korean: An OT analysis on the distinct patterns of /r/ & /l/. *The 9th International Workshop on Theoretical East Asian Linguistics*, Nantes, France (did not attend).

RESEARCH EXPERIENCE

- May 2020 – Aug 2020 Research assistant, for Shrikanth S. Narayanan, *Ming Hsieh Department of Electrical and Computer Engineering*, and Dani Byrd, *Department of Linguistics, USC*
- Worked on applying machine learning algorithms to speech articulatory data
- May 2019 – Aug 2019 Research assistant, for Shrikanth S. Narayanan, *Ming Hsieh Department of Electrical and Computer Engineering*, and Dani Byrd, *Department of Linguistics, USC*
- Developed speech imaging analysis tools using real-time MRI videos
- May 2018 – Dec 2018 Research assistant, for Dani Byrd *Department of Linguistics, USC*
- Analyzed speech data addressing the effect of prosodic modulation on internal linguistic organizations
- Designed and conducted experiments investigating dynamics of speech materials

- May 2018 – Aug 2018 Research assistant, for Shrikanth S. Narayanan, *Ming Hsieh Department of Electrical Engineering, USC*
- Worked on image/video analysis with MRI videos
- Designed experiments and collected real-time MRI video data to understand complex linguistic configurations
- May 2017 – Dec 2017 Research assistant, for Shrikanth S. Narayanan, *Ming Hsieh Department of Electrical Engineering, USC*
- Developed an object tracking tool for analyzing vocal tract MRI videos (w/ MATLAB)
- Collected real-time MRI data for Speech Production and Articulation kNowledge (SPAN) group projects
- Sep 2014 – Aug 2015 Research assistant, advised by Eunjin Oh, *Department of English Language and Literature, Ewha Womans University*
- Data collection and analysis for sociophonetic experiments on interactive speech
- 2013 – 2014 Student assistant, *English Lounge (tutoring center), Ewha Womans University*
- Tutored students and coordinated meetings and tutoring schedules

TEACHING EXPERIENCE

GUEST LECTURE/TUTORIAL

- Fall 2020 & Spring 2020/21 Guest Lecture: The Process of Change in Science: Human Speech (Thematic Option Honors GE course), *USC*
- Fall 2020 Tutorial: Presenting and Participating at an Online Conference, *PhonLunch, USC*
- Spring 2016 Guest Lecture: Phonology, *Stony Brook University*

TEACHING ASSISTANT

- University of Southern California**
Fall 2019, Spring 2020, & Spring 2021 TA for CORE 103 The Process of Change in Science: Human Speech in the Thematic Option Honors Program
Instructor: Dani Byrd
- Fall 2017 & Spring 2019 TA for LING 115 Language and Society
Instructor: Mary B. Washburn (Spring 2019), Andrew Simpson (Fall 2017)
- Spring 2018 TA for LING 285 Human Language and Technology
Instructor: Mary B. Washburn
- Stony Brook University**
Spring 2016 TA (& Substitute teacher) for LIN 301 Phonology
Instructor: Michael Becker
- Fall 2015 TA for LIN 201 Phonetics
Instructor: Marie Huffman

PEDAGOGICAL EDUCATION

- Nov 2018 Certificate of Completion, Center for Excellence in Teaching
Future Faculty Teaching Institute, USC
- Fall 2017 Practicum for Teaching the Liberal Arts: Linguistics (LING 593), USC

SERVICE

- 2021 Editorial Secretary, *Korean Journal of Linguistics*
- 2020 Reviewer, Speech Prosody
- 2019 Reviewer, The Korean Society of Speech Sciences
- 2018 – 2020 Student Council Member, *Acoustical Society of America (ASA)*
- Speech Communication Technical Committee representative
- 2019 – 2020 President, *Korean Graduate Student Association, USC*
- 2019 – 2020 Colloquium Organizer, *Graduate Students in Linguistics, USC*
- 2018 – 2019 Treasurer, *Korean Graduate Student Association, USC*
- 2017 – 2021 Graduate Student Affiliate, *Korean Studies Institute, USC*
- 2017 – 2018 Event Coordinator, *Graduate Students in Linguistics, USC*
- Oct 2016 Student volunteer, *Annual Meeting on Phonology, USC*
- May 2016 Student volunteer, *Speech Prosody, Boston University*
- Mar–Apr 2016 Student volunteer, *The 46th Linguistic Symposium on Romance Languages & the 30th Annual Symposium on Arabic Linguistics, Stony Brook University*

WORK EXPERIENCE

Interpreter

- Jun 2014 Interpreter at 2014 Annual Congress of the International Society of Oncoplastic Endocrine Surgeons (ISOPES), *Busan, Korea*
- Sep 2013 Interpreter at 2013 Dasan Conference on Photonic Nanostructure-Based Bio-Detection Technologies, *Seoul, Korea*
- Aug 2013 Interpreter at the 35th World Federation of Master Tailors, *Seoul, Korea*

Volunteer Work

- Mar–Jun 2012 Assisted teaching exchange students learning Korean, *Ewha Womans University*
- 2011 – 2012 Assisted teaching and tutored native English speakers learning Korean, *UC Davis*

PROFESSIONAL MEMBERSHIP

- 2020 – (present) Student Member, *Laboratory Phonology*
- 2017 – (present) Student Member, *Acoustical Society of America*
- 2016 – (present) Member, *Linguistic Society of America*

SKILLS

- Technical MATLAB, Python, R, Praat, C++, SPSS, LATEX
- Language Korean (Native); English (Fluent); French (Intermediate)