

Seung-Eun Kim

Academic Appointment

- 2024–present **Postdoctoral Fellow**, Department of Linguistics, Northwestern University
NSF project: *Talker-specific, language-specific, and language-general characteristics of first-language and second-language speech*
PI: Ann Bradlow
- 2023–present **Postdoctoral Fellow**, Department of Linguistics, Northwestern University
NSF project: *Enhancing research on speech and deep learning through holistic acoustic analysis*
PIs: Matt Goldrick, Ann Bradlow

Education

- 2017–2022 **Ph.D. in Linguistics**, Cornell University
Dissertation: *Experimental and computational investigations of F0 control* [\[link\]](#)
Committee: Sam Tilsen (chair), Abigail C. Cohn, Draga Zec
- 2017–2020 **M.A. in Linguistics**, Cornell University
Qualifying paper: *A phonetic investigation of English relative clauses*
Committee: Sam Tilsen (chair), Marten van Schijndel, Draga Zec
- 2014–2017 **M.A. in English Language and Literature**, Yonsei University, Seoul, South Korea
Thesis: *Effects of musical aptitude on L2 learners' sensitivity to prosodic boundaries in syntactic ambiguity resolution*
Committee: Eun-Kyung Lee (chair), Seok-Chae Rhee, Seung-Hee Lee
- 2010–2014 **B.A. in English Language and Literature**, Yonsei University, Seoul, South Korea
Academic Honors (Spring, 2013)

Research Interests

Speech production and perception, Speech planning, Speech intelligibility, Acoustics, Articulation, Bilingualism, Prosody, Intonation

Fellowships & Scholarships

- 2024 **Postdoc Conference Travel Grant**. Office of Postdoctoral Affairs, Northwestern University
- 2021–2022, **Sage Fellowship**. Graduate School, Cornell University
- 2017–2018
- Spring, 2021 **R. J. Smith Fellowship**. Mario Einaudi Center for International Studies, Cornell University
- 2018, 2019, **Conference Travel Grant**. Graduate School, Cornell University
- 2020, 2021

- 2014–2015 **Brain Korea 21 Plus Scholarship.** Korean Ministry of Education & National Research Foundation of Korea
- 2010–2013 **Scholarship for Academic Excellence.** Department of English Language and Literature, Yonsei University

Publications

Journal Articles

- under review **Kim, S.-E.**, & Tilsen, S. The Gesture-Field-Register (GFR) framework for modeling F0 control.
- under review **Kim, S.-E.**, Goldrick, M., & Bradlow, A. R. Tuning-in to talkers while tuning-out the noise: Mechanisms underlying talker-specific perceptual adaptation to second-language speech-in-noise.
- 2025 **Kim, S.-E.**, Chernyak, B. R., Keshet, J., Goldrick, M., & Bradlow, A. R. Predicting relative intelligibility from inter-talker distances in a perceptual similarity space for speech. *Psychonomic Bulletin & Review*. [\[link\]](#)
- 2024 **Kim, S.-E.**, & Tilsen, S. Planning for the future and reacting to the present: Proactive and reactive F0 adjustments in speech. *Journal of Phonetics*, 104, 101322. [\[link\]](#)
- 2024 **Kim, S.-E.**, Chernyak, B. R., Seleznova, O., Keshet, J., Goldrick, M., & Bradlow, A. R. Automatic recognition of second language speech-in-noise. *JASA Express Letters*, 4(2), 025204. [\[link\]](#)
- 2022 **Kim, S.-E.**, & Tilsen, S. An investigation of functional relations between speech rate and phonetic variables. *Journal of Phonetics*, 93, 101152. [\[link\]](#)
- 2021 Tilsen, S., **Kim, S.-E.**, & Wang, C. Localizing category-related information in speech with multi-scale analyses. *PLoS ONE*, 16(10), e0258178. [\[link\]](#)
- 2016 **Kim, S.-E.** Laughter in contexts of interactional troubles in writing tutoring sessions. *The Sociolinguistic Journal of Korea*, 24(2), 49-77. [\[link\]](#)

Conference Proceedings

- 2023 **Kim, S.-E.** Evidence for preplanned and adaptive F0 control. *Proceedings of the 20th International Congress of Phonetic Sciences*. [\[link\]](#)
- 2023 **Kim, S.-E.**, & Tilsen, S. Investigations of F0 control: pitch targets vs. pitch register. *Proceedings of the 20th International Congress of Phonetic Sciences*. [\[link\]](#)
- 2021 **Kim, S.-E.**, & Tilsen, S. Temporal localization of syntactically conditioned prosodic information. *Proceedings of the 12th International Seminar on Speech Production*. [\[link\]](#)
- 2020 **Kim, S.-E.**, & Tilsen, S. Speech rate and syntactically conditioned influences on prosodic boundaries. *Proceedings of the 10th International Conference on Speech Prosody*. [\[link\]](#)
- 2020 **Kim, S.-E.** The prosody of contrastive topic in Korean. *Proceedings of the 27th Japanese/Korean Linguistics Conference*. [\[link\]](#)

Conference Presentations

- Nov, 2024 **Kim, S.-E.**, Chernyak, B. R., Keshet, J., Bradlow, A. R., & Goldrick, M. *A perceptual similarity space for speech perception*. Talk given at the 65th Annual Meeting of the Psychonomic Society. New York, NY, USA.
- Oct, 2024 **Kim, S.-E.**, Chernyak, B. R., Keshet, J., Goldrick, M., & Bradlow, A. R. *Predicting second-language speech intelligibility with self-supervised speech representations*. Talk given at the UIC Bilingualism Forum 2024. Chicago, IL, USA.

- Jun, 2024 **Kim, S.-E.**, Goldrick, M., & Bradlow, A. R. *Large-scale assessment of speech intelligibility*. Talk given at the CorpusPhon (satellite workshop of the 19th Conference on Laboratory Phonology). Seoul, South Korea.
- Jun, 2024 **Kim, S.-E.**, Zeng, Q., Chernyak, B. R., Keshet, J., Goldrick, M., & Bradlow, A. R. *Quantifying perceptual similarity of connected speech*. Poster presented at the 19th Conference on Laboratory Phonology. Seoul, South Korea.
- May, 2024 **Kim, S.-E.**, Goldrick, M., & Bradlow, A. R. *Effects of quality of initial exposure stimuli on speech intelligibility*. Poster presented at the 186th meeting of the Acoustical Society of America. Ottawa, ON, Canada.
- Nov, 2023 **Kim, S.-E.**, Chernyak, B. R., Seleznova, O., Keshet, J., Goldrick, M., & Bradlow, A. R. *Comparing ASR and human listeners on L2 intelligibility*. Poster presented at the 64th Annual Meeting of the Psychonomic Society. San Francisco, CA, USA.
- Sep, 2023 **Kim, S.-E.** *Proactive and reactive adjustments of F0*. Poster presented at the Workshop on Planning to Produce Speech. Evanston, IL, USA.
- Aug, 2023 **Kim, S.-E.** *Evidence for preplanned and adaptive F0 control*. Talk given at the 20th International Congress of Phonetic Sciences. Prague, Czech Republic.
- Aug, 2023 **Kim, S.-E.**, & Tilsen, S. *Investigations of F0 control: pitch targets vs. pitch register*. Poster presented at the 20th International Congress of Phonetic Sciences. Prague, Czech Republic.
- May, 2023 **Kim, S.-E.**, & Tilsen, S. *Effects of utterance length on word and phrase durations*. Poster presented at the 184th meeting of the Acoustical Society of America. Chicago, IL, USA.
- Jun, 2022 **Kim, S.-E.**, & Tilsen, S. *Evidence for adaptive control of pitch register*. Poster presented at the 18th Conference on Laboratory Phonology. Virtual presentation.
- Nov, 2021 **Kim, S.-E.**, & Tilsen, S. *Evidence for F0 preplanning with delayed stimuli*. Poster presented at the 181st meeting of the Acoustical Society of America. Seattle, WA, USA.
- Jan, 2021 **Kim, S.-E.** *The effects of speech rate on the phonetic correlates of syntactic structure*. Talk given at the 95th Annual Meeting of the Linguistic Society of America. Virtual presentation.
- Dec, 2020 **Kim, S.-E.**, & Tilsen, S. *Temporal localization of syntactically conditioned prosodic information*. Poster presented at the 12th International Seminar on Speech Production. Virtual presentation.
- Dec, 2020 **Kim, S.-E.**, & Tilsen, S. *Phonetic evidence for categorical differences in prosodic structure*. Poster presented at the 179th meeting of the Acoustical Society of America. Virtual presentation.
- May, 2020 **Kim, S.-E.**, & Tilsen, S. *Speech rate and syntactically conditioned influences on prosodic boundaries*. Talk given at the 10th International Conference on Speech Prosody. Virtual presentation.
- Oct, 2019 **Kim, S.-E.** *The prosody of contrastive topic in Korean*. Talk given at the 27th Japanese/Korean Linguistics Conference. Seoul, South Korea.
- Mar, 2018 **Kim, S.-E.** *Korean L2 learners' sensitivity to prosodic boundaries in syntactic ambiguity resolution*. Poster presented at the 31st Annual CUNY Conference on Human Sentence Processing. Davis, CA, USA.

Invited Talks

- Feb, 2025 *Acoustic evidence for global and incremental speech planning*. Prosody Lab. Department of Linguistics, University of Michigan.
- Nov, 2024 *Global and incremental speech planning*. CUNY Prosody Lab. Linguistics Program, CUNY Graduate Center.

- Aug, 2023 *Utilizing automatic speech recognition in intelligibility research*. Symposium on "Speech processing in challenging listening environments: Towards a multi-dimensional framework". Department of Communication Sciences and Disorders, Northwestern University.
- Apr, 2023 *Investigations of cognitive mechanisms behind F0 control*. Prosody & Speech Dynamics Lab. Department of Linguistics, Northwestern University.

Teaching & Research Experience

Teaching Assistant, Cornell University

Spring, 2019 **Introduction to Phonetics and Phonology**. Department of Linguistics

Fall, 2018, 2019, 2020 **Elementary Korean I**. Department of Asian Studies

Spring, 2022 **Elementary Korean II**. Department of Asian Studies

Research Assistant, Cornell University

Spring, 2020 **Research Assistant to Professor John Whitman**. Department of Linguistics
 - conducted corpus analyses on passive and causative verbs in Middle Korean
 - conducted corpus analyses on the phonological distribution of /h/ in Middle Korean

Languages & Skills

Languages **Korean**: native, **English**: fluent, **Japanese**, **Chinese**: elementary

Skills **Matlab, R, Praat, Python,**
NDI Wave Electromagnetic Articulography (articulatory data acquisition)

Service

Journal reviewing Journal of the Acoustical Society of America; JASA Express Letters; Journal of the International Phonetic Association; Journal of Speech, Language, and Hearing Research; Laboratory Phonology; Psychological Science

2023–2024 **Organizer**. Northwestern Phonatics Group (discussion group on sound structure and processing)

2019–2020 **Student representative on search committee for tenure-track position in Experimental Linguistics**. Department of Linguistics, Cornell University

References

Dr. Matt Goldrick

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Dr. Ann Bradlow

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Dr. Sam Tilsen

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