

# 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, 2017–2018 **Sage Fellowship**. Graduate School, Cornell University
- Spring, 2021 **R. J. Smith Fellowship**. Mario Einaudi Center for International Studies, Cornell University
- 2018, 2019, 2020, 2021 **Conference Travel Grant**. Graduate School, Cornell University

- 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

- in revision **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.
- under review **Kim, S.-E.**, & Tilsen, S. The Gesture-Field-Register (GFR) framework for modeling F0 control.
- 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 to be 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

- Nov, 2024 *Utterance planning evidenced by the control of fundamental frequency*. 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 Speech, Language, and Hearing Research; Journal of the International Phonetic Association; Psychological Science; JASA Express Letters

2023–2024 **Organizer.** Northwestern Phonetics 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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