

# Jieun Song

## Lecturer

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## Education

- 2018      **PhD** in Speech, Hearing and Phonetic Sciences  
University College London, London, UK  
Thesis: *The effects of adverse conditions on speech recognition by non-native listeners: Electrophysiological and behavioural evidence*  
Supervisors: Prof. Paul Iverson (primary), Prof. Valerie Hazan (secondary)
- 2011      **MA** in Linguistics  
Seoul National University, Seoul, South Korea  
Thesis: *The interlanguage speech intelligibility benefit of English stress for Korean talkers and listeners*  
Supervisor: Prof. Ho-Young Lee
- 2008      **BA** in Linguistics (Summa cum laude)  
Seoul National University, Seoul, South Korea

## Employment

- Sept 2020 - Present      **Lecturer**  
Dept. of Linguistics, Seoul National University, South Korea
- Oct 2017 - Aug 2020      **Postdoctoral Research Associate**  
Dept. of Speech, Hearing and Phonetic Sciences, University College London, UK

## Research Interests

Second-language speech perception and production; Neural processing of speech; Speech development in children; Bilingualism; Korean phonetics

## Peer-reviewed Publications

8. Song, J., Martin, L. & Iverson, P. (2020). Auditory neural tracking and lexical processing of speech in noise: masker type, spatial location, and language experience, *Journal of the Acoustical Society of America*, 148(1), 253-264.
7. Lee, H-Y. & Song, J.\* (2019). Evaluating Korean learners' English rhythm proficiency with measures of sentence stress, *Applied Psycholinguistics*, 40(6), 1363-1376.
6. Song, J., Martin, L. & Iverson, P. (2019). Native and non-native speech recognition in noise: neural measures of auditory and lexical processing, *Proceedings of the 19th International Congress of Phonetic Sciences (ICPhS 2019)*, Melbourne.

5. **Song, J. & Iverson, P. (2018).** Listening effort during speech perception enhances auditory and lexical processing for non-native listeners and accents, *Cognition*, 179, 163-170.
4. Lee, G. G., Lee, H-Y., **Song, J.**, Kim, B., Kang, S., Lee, J. & Hwang, H. (2017). Automatic sentence stress feedback for non-native English learners, *Computer Speech and Language*, 41, 29-42.
3. **Song, J. & Iverson, P. (2015).** Measuring speech-in-noise intelligibility for spontaneous speech: The effect of native and non-native accents, *Proceedings of the 18th International Congress of Phonetic Sciences (ICPhS 2015)*, Glasgow.
2. **Song, J. (2013).** Variable Schwa Deletion in English: A Corpus Study, *Studies in Phonetics, Phonology and Morphology*, 19(1), 33-52.
1. **Song, J. (2011).** The interlanguage speech intelligibility benefit for experienced nonnative listeners: perception of English lexical stress produced by Korean native speakers, *Proceedings of the 17th International Congress of Phonetic Sciences (ICPhS 2011)*, Hong Kong.

\*corresponding author

## Books

1. Kiaer, J. & **Song, J. (2019).** 언어의 아이들: 아이들은 도대체 어떻게 언어를 배울까? [‘How children learn language’], Seoul: Science Books. 세종도서 학술부문 선정

## Papers under review

1. Cho, H.J., Kiaer, J., Choi, N. & **Song, J. (under review).** The role of prosodic and contextual information in disambiguating wh-phrases: The case of Korean three-year-olds

## Papers in Preparation

1. **Song, J. & Iverson, P.** Development of a Korean sentence materials set for speech perception research.

## Conference Presentations

13. Cho, H.J., Kiaer, J., Choi, N. & **Song, J. (2019).** Young children’s use of prosody and contextual cues in disambiguating wh-specific/indefinite question: The case of Korean, The 14th Generative Approaches to Language Acquisition (GALA), Milan.
12. **Song, J.**, Martin, L. & Iverson, P. (2019). Coping with noise at multiple levels: Auditory cortical and lexical effects of maskers for native and non-native listeners, Speech in noise workshop (SpiN), Ghent.
11. **Song, J.**, Martin, L. & Iverson, P. (2018). Neural processing of attended speech in multi-talker environments: Effects of talker number and spatial cues, Attention to Sound, Milton Keynes.
10. **Song, J. & Iverson, P. (2018).** Exploring cortical and subcortical responses to continuous speech, Auditory EEG Signal Processing symposium (AESoP), Leuven.
9. **Song, J. & Kiaer, J. (2018).** The role of semantic cues in prosodic disambiguation of wh-phrases in Korean, The 2018 Colloquium of the British Association of Academic Phoneticians (BAAP), Kent.

8. Lee, H-Y. & **Song, J.** (2017). Features for evaluating Korean learners' English rhythm proficiency, The 5th International Conference on English Pronunciation: Issues & Practices (EPIP5), Caen.
7. **Song, J.** & Iverson, P. (2016). Cross-linguistic perception of continuous speech: Neural entrainment to the speech amplitude envelope, The 172nd meeting of the Acoustical Society of America (ASA 2016 Fall meeting), Hawaii.
6. Iverson, P., Brint, E., **Song, J.** & Wu, M. (2016). Listening effort and accent in competing-talker speech recognition by native and non-native listeners: Electrophysiological measures of auditory and lexical processing, The 172nd meeting of the Acoustical Society of America (ASA 2016 Fall meeting), Hawaii.
5. **Song, J.** & Iverson, P. (2016). An ERP study of speech recognition by native and non-native listeners: The effects of a competing-talker background and accent, The 3rd Conference on Experimental Approaches to Perception and Production of Language Variation (ExAPP 2016), Vienna.
4. **Song, J.** & Iverson, P. (2016). Is cortical entrainment to speech a neural correlate of listening effort?, The 8th Annual Meeting for the Neurobiology of Language (SNL 2016), London.
3. **Song, J.** & Iverson, P. (2016). Speech recognition by native and non-native listeners with a competing-talker background: An ERP study, The 8th International Conference on Second-Language Speech (New Sounds 2016), Aarhus.
2. **Song, J.** & Iverson, P. (2016). The effect of accent on speech recognition in a competing-talker background: Neural oscillations and the N400, Speech Processing in Realistic Environments (SPIRE) workshop, Groningen.
1. **Song, J.** (2010). Durational characteristics of English sentences produced by Korean speakers and their role in the degree of perceived foreign accent, Proceedings of the 2010 Fall Conference of the Korean Society of Speech Sciences, Seoul.

## Invited Talks

3. The role of listening effort in second-language speech processing. *The SNU Linguistics Colloquium Series*, Department of Linguistics, Seoul National University, Seoul, South Korea. Dec 3, 2019.
2. Interaction of semantic and prosodic cues in the disambiguation of wh-words in Korean (with J. Kiaer). *Departmental Seminar Series*, Oriental Studies, University of Oxford. Jan 29, 2019.
1. Second language speech processing in realistic environments: an electrophysiological investigation. *The SNU Linguistics Colloquium Series*, Department of Linguistics, Seoul National University, Seoul, South Korea. Sept 4, 2017.

## Awards & Grants

- 2017 - 2020    Research Grant (named Research Associate)  
Economic and Social Research Council, UK  
Project: *“Listening effort and multilingual speech communication: Neural measures of auditory and lexical processing by adults and older children”*  
Award Amount: £570,625; PI: Prof. Paul Iverson
- 2017            First Place Award in the poster competition (area: Speech Communication)  
The 172nd meeting of the Acoustical Society of America 2016
- 2013 - 2017    Kwanjeong Overseas Scholarship (full stipend)  
Kwanjeong Educational Foundation, South Korea
- 2013 - 2016    Overseas Research Scholarship (full tuition fee waiver)  
University College London (UCL)
- 2010            Best Presentation Paper Award  
The 2010 Fall Conference of the Korean Society of Speech Sciences
- 2010            Teaching Assistant Scholarship (1st Semester)  
Dept. of Linguistics, Seoul National University (SNU)
- 2010            Superior Academic Performance Scholarship (1st Semester)  
Dept. of Linguistics, SNU
- 2009 - 2010    Graduate Student Scholarship  
Woosan Educational Foundation, South Korea
- 2009            Lecture & Research Scholarship  
Dept. of Linguistics, SNU
- 2006 - 2007    Kwanjeong Domestic Scholarship  
(one of the two recipients in the College of Humanities)  
Kwanjeong Educational Foundation, South Korea
- 2004 - 2005    Merit-based Scholarship (full tuition fee waiver), SNU
- 2004            Superior Academic Performance Scholarship, SNU (2nd Semester)

## Teaching Experience

### Lecturer

2020            Module: Language Acquisition (Undergraduate), SNU (Fall Semester)

### Module Development

2019            Module: Language Acquisition, SNU  
Role: Providing the module outline and detailed content for lectures, tutorials & assessment

### Guest Lecturer

2017 - 2020    Module: Second Language Speech Learning (MSc), UCL (Term 2)  
Lecture: Listening effort during second language speech perception

2019            Module: Development of Communication and Cognition (BSc), UCL (Term 1)  
Lecture: Using the ERP technique to explore phonological development

2018            Module: Development of Speech Perception and Production (MSc), UCL (Term 1)  
Lecture: Speech development in bilingual children

2016            Module: Introduction to Speech Sciences (MSc), UCL (Term 1)  
Module: Speech Production and Perception (BSc), UCL (Term 1)  
Lecture: The challenge of speech perception

2015            Module: Introduction to Speech Sciences (MSc), UCL (Term 1)  
Lecture: Fricatives and spectrograms

### Teaching Assistant

2015 - 2017    Module: Introduction to the Event-Related Potential Techniques (MSc, MRes),  
UCL (Term 2)

2015 - 2016    Module: Phonetics and Phonology (MSc), UCL (Term 1)

2010            Module: World of Languages (Undergraduate), SNU (Spring Semester)

2009            Module: Experimental Phonetics (Postgraduate), SNU (Spring Semester)

### Electroencephalography (EEG) Demonstrator

2015 - 2020    Module: Second-Language Speech Learning (MSc), UCL (Term 2)

2020            Module: Development of Speech Perception and Production (MSc), UCL (Term 1)

### Student Supervision

2018            Supervising master student projects (with Prof Paul Iverson, UCL)  
Minjeong Kim (MA Linguistics), Miguel Garcia Tarifa (MSc Language Sciences)  
Project: Phonetic training under cognitive load

## Other Professional Experience

I participated in the following research projects under the supervision of Prof. Ho-Young Lee at SNU.

- 2011 - 2013     Researcher, Dept. of Linguistics, SNU  
                     Project: *“Building the Korean Learners’ English Accentuation Corpus for Automatic Accent Detection”* funded by SK Telecom  
                     Role: Annotating sentence stress, data analysis & writing papers
- 2008 - 2011     Researcher, Dept. of Linguistics, SNU  
                     Project: *“Modeling of Korean Prosody for HMM-based Spontaneous Speech Synthesis”* funded by National Research Foundation of Korea  
                     Role: Annotating Korean intonation using SAIL (Semi-Automatic Intonation Labeling System)
- 2011             Researcher, Dept. of Linguistics, SNU  
                     Project: *“A Study of Inter-speaker Variability in Emotional Speech for Speaker Identification”* funded by the Korean Institute of Forensic Sciences  
                     Role: RA duties including collecting electroglottographic and audio recordings
- 2009             Researcher, Dept. of Linguistics, SNU  
                     Project: *“Developing English Teaching Robots”* funded by Korea Institute of Science and Technology  
                     Role: Developing content for English teaching robots, writing ‘*Learning English with Robot –Elementary*’ & other RA duties
- 2010             Laboratory Assistant, Phonetics Lab, Dept. of Linguistics, SNU  
                     Role: Setting up recording equipment for students & maintaining equipment and supplies in the lab

## Professional Service

- 2018             Organising Speech Science Forum seminars  
                     Dept. of Speech, Hearing & Phonetic Sciences (UCL)

## Reviewing

- Journals         *Journal of the Acoustical Society of America, Bilingualism: Language and Cognition, Language Learning, Scientific Reports*
- Conferences     The 9th International Symposium on the Acquisition of Second Language Speech  
                     2019, The 19th International Congress of Phonetic Sciences

## Public Engagement

- 2020             Event at the Royal Institution: *“Easy speaking and effortless listening”*  
                     Role: Leading the EEG demo session “EEG for speech perception research” for the general public
- 2014             Event at the Royal Institution: *“Good listeners and smooth talkers: Spoken communication in a challenging world”* (led by Prof. Stuart Rosen, UCL).  
                     Role: EEG demonstration & presenting our research to the general public

## **Other Skills**

<b>Languages</b>	Korean (Native), English (Fluent), Spanish (Reading knowledge)
<b>Programming</b>	Matlab, R, Praat
<b>Statistics</b>	R, SPSS
<b>EEG Analysis</b>	Fieldtrip, EEG/ERPLab