

CURRICULUM VITAE

Jieun Song

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Speech, Hearing & Phonetic Sciences
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RESEARCH INTERESTS

Neural mechanisms of speech processing, second language speech perception & production, speech perception & production in realistic environments, child language acquisition, bilingualism, Korean phonetics

EMPLOYMENT

2017- Present **Postdoctoral Research Associate** in **Dept. of Speech, Hearing and Phonetic Sciences, University College London**, London, UK
Project title: *Listening effort and multilingual speech communication: Neural measures of auditory and lexical processing by adults and older children* (funded by Economic and Social Research Council)
Principal Investigator: Prof. Paul Iverson

EDUCATION

2013-2018 Jan **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*
Primary Supervisor: Prof. Paul Iverson
Secondary Supervisor: Prof. Valerie Hazan

2008-2011 **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

2004-2008 **BA in Linguistics, Seoul National University**, Seoul, South Korea
Summa cum laude

2007 Exchange Programme, Linguistics, The University of Auckland, Auckland, New Zealand

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AWARDS & GRANTS (SELECTED)

- 2017 - 2020 **Named postdoctoral researcher** for the project '*Listening effort and multilingual speech communication: Neural measures of auditory and lexical processing by adults and older children*'
Sponsor: Economic and Social Research Council
Award Amount: £570,625
Principal Investigator: Prof. Paul Iverson
- Jan 2017 **First Place Award** in the poster competition at the **172nd meeting of the Acoustical Society of America 2016** (awarded by the Speech Communication Technical Committee; poster title: "*Cross-linguistic perception of continuous speech: Neural entrainment to the speech amplitude envelope*")
- 2013-2017 **Kwanjeong Overseas Scholarship**, Kwanjeong Educational Foundation, South Korea (full stipend)
- 2013-2016 **Overseas Research Scholarship**, University College London (full tuition fee waiver)
- Nov 2010 Best Presentation Paper Award at the 2010 Fall Conference of the Korean Society of Speech Sciences
- 2010 Teaching Assistant Scholarship & Superior Academic Performance Scholarship, Dept. of Linguistics, SNU (1st Semester)
- 2009-2010 Graduate Student Scholarship, Woosan Educational Foundation, South Korea
- 2009 Lecture & Research Scholarship, Dept. of Linguistics, SNU
- 2006-2007 **Kwanjeong Domestic Scholarship**, Kwanjeong Educational Foundation, South Korea (one of the two recipients in the College of Humanities)
- 2004-2005 Merit-based Scholarship, SNU (full tuition fee waiver)
- 2004 Superior Academic Performance Scholarship, SNU (2nd Semester)

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JOURNAL PUBLICATIONS

- Lee, H-Y. & **Song, J.** (*under review*). Evaluating Korean learners' English rhythm proficiency with measures of sentence stress.
- Song, J.** & Iverson, P. (2018). Listening effort during speech perception enhances auditory and lexical processing for non-native listeners and accents, *Cognition* 179, pp. 163-170.
- 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, pp. 29-42.
- Song, J.** (2013). Variable Schwa Deletion in English: A Corpus Study, *Studies in Phonetics, Phonology and Morphology* 19(1), pp. 33-52.

BOOKS

- Kiaer, J. & **Song, J.** (*in press*). 아이들은 도대체 어떻게 언어를 배울까? (How do children learn language?), Seoul: Science Books. (Expected publication date: March 2019)

CONFERENCE PRESENTATIONS & PROCEEDINGS

- Song, J.** & Iverson, P. (2018). Exploring cortical and subcortical responses to continuous speech, *Auditory EEG Signal Processing symposium (AESoP)*, Leuven.
- 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.
- 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.
- 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.
- 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.
- 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.

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- 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.
- 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.
- 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.
- 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.
- 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.
- 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

- Song, J. (2017).** Colloquium in Dept. of Linguistics at Seoul National University.
Title: Second language speech processing in realistic environments: an electrophysiological investigation
- Song, J. (2011).** The Joint Seminar on English Phonetics 2011, Seoul.
Title: The intelligibility of English lexical stress produced by Korean native speakers – effects of language experience on second language perception

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PROFESSIONAL SERVICE

2018 – Present Organising **Speech Science Forum seminars**, Speech, Hearing & Phonetic Sciences (UCL) <https://www.ucl.ac.uk/pals/research/speech-hearing-and-phonetic-sciences/speech-science-forum>

2018 – 2019 **Conference reviewing** for the *9th International Symposium on the Acquisition of Second Language Speech (New Sounds 2019)*

2018 – 2019 **Conference reviewing** for the *19th International Congress of Phonetic Sciences (ICPhS 2019)*

Ad hoc journal reviewing

The Journal of the Acoustical Society of America

TEACHING EXPERIENCE

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

2017, 2018 **Guest Lecturer**, Module: Second language speech learning (MSc), UCL (Term 2)
Role: Lecture on “Listening effort during second language speech perception”

2016 **Guest Lecturer**, Module: Introduction to Speech Sciences (MSc), UCL (Term 1)
Role: Lecture on “The challenge of speech perception” & tutorial on “Spectrographic analysis of vowels & consonants”

2016 **Guest Lecturer**, Module: Speech production and perception (BSc), UCL (Term 1)
Role: Lecture on “The challenge of speech perception”

2015 **Guest Lecturer**, Module: Introduction to Speech Sciences (MSc), UCL (Term 1)
Role: Lecture on “Fricatives and spectrograms” & tutorial on “Spectrographic analysis of fricatives”

2015-2017 **Teaching Assistant** for Dr. Jyrki Tuomainen
Module: Introduction to the Event-Related Potential Techniques (MSc & MRes), UCL (Term 2)
Role: Assisting in the delivery of lab sessions, delivering a lab session on ‘Time-frequency analysis in EEG’, marking essays, EEG demonstration & supervising EEG data collection

2015-2016 **Teaching Assistant** for Dr. Bronwen Evans
Module: Phonetics and Phonology (MSc), UCL (Term 1)
Role: Assisting in the delivery of ear training sessions, delivering tutorials & examining phonetics oral exams

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- 2015-2018 **EEG (Electroencephalography) demonstrator**
Module: Second-Language Speech Learning (MSc), UCL (Term 2)
Role: Demonstrating how to set up EEG experiments, handle equipment and record clean EEG data
- 2009-2010 **Teaching Assistant** for Prof. Ho-Young Lee
Module: World of Languages (Undergraduate), SNU (1st Semester, 2010)
Module: Experimental Phonetics (Postgraduate), SNU (1st Semester, 2009)
Role: Marking exams, teaching students how to make audio recordings of speech & providing technical support in lectures
- 2009-2010 **Mentor & English Teacher** in Saessak Mentoring Programme for high school students, Saessak Scholarship Foundation

OTHER PROFESSIONAL EXPERIENCE

- 2011-2013 **Research Assistant & Researcher**
Project: *"Building the Korean Learners' English Accentuation Corpus (KLEAC) for Automatic Accent Detection"* funded by SK Telecom (supervised by Prof. Ho-Young Lee, Co-Investigator)
Role: Contributing to various aspects of the project including annotating sentence stress, data analysis & writing papers
- 2011 **Research Assistant**
Project: *"A Study of Inter-speaker Variability in Emotional Speech for Speaker Identification"* funded by the Korean Institute of Forensic Sciences (Principal Investigator: Prof. Ho-Young Lee)
Role: Collecting electroglottographic and audio recordings & subject recruitment
- 2010 **Laboratory Assistant**, Phonetics Lab, Dept. of Linguistics, SNU
Role: Setting up recording equipment for students & maintaining equipment and supplies in the lab
- 2009 **Research Assistant**
Project: *"Developing English Teaching Robots"* funded by Korea Institute of Science and Technology (supervised by Prof. Ho-Young Lee, Co-Investigator)
Role: Writing the book 'Learning English with Robot –Elementary' & other RA duties such as assisting with workshops
- 2008-2011 **Research Assistant**
Project: *"Modeling of Korean Prosody for HMM-based Spontaneous Speech Synthesis"* funded by National Research Foundation of Korea (supervised by Prof. Ho-Young Lee, Co-Investigator)
Role: Annotating Korean prosody using SAIL (Semi-Automatic Intonation Labeling System)

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PUBLIC ENGAGEMENTS

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

LANGUAGES

Korean (Native), English (Fluent), Spanish (Reading knowledge)

OTHER SKILLS

Statistics: R, SPSS

Programming languages: Matlab, R, Praat

EEG Analysis: Fieldtrip, EEG/ERPLab, SPM