

Hyunah Baek

Department of English Language and Literature
Ajou University

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Research Interests

Psycholinguistics, phonology and phonetics, second language acquisition, syntax-prosody interface

Education and Academic positions

Assistant Professor

Ajou University, Suwon, Korea
Department of English Language and Literature

2023-current

Post-doctoral Researcher

Gwangju Institute of Science and Technology, Gwangju, Korea
Language, Cognition, and Brain Lab

2021-2022

Ph.D. in Linguistics

Stony Brook University, Stony Brook, NY

2014-2020

M.Ed. in English Language Education

Korea University, Seoul, Korea

2011-2013

B.A. in English Language Education

Korea University, Seoul, Korea

2006-2011

Visiting student in English

Royal Holloway, University of London, Surrey, UK

2009-2010

Publications

Peer-reviewed Journal Articles

Baek, H., Gordon, P. C., & Choi, W. (In press). Effects of age and word frequency on Korean visual word recognition: Evidence from a web-based large scale lexical-decision task. *Psychology and Aging*.

Baek, H., Lee, Y., & Choi, W. (2023). Proficiency versus lexical processing efficiency as a measure of L2 lexical quality: Individual differences in word-frequency effects in L2 visual word recognition.

Memory & Cognition, 51, 1858-1869.

Lee, E., **Baek, H.**, Kim, T.-W., & Choi, W. (2023). A comparative study on information processing of human and avatar sign words during Korean Sign Language word recognition. *Disability & Social Welfare*, 14(2), 184-207. (Written in Korean)

Baek, H., Tae, J., Lee, Y., & Choi, W. (2023). Effects of native translation frequency and L2 proficiency on L2 word recognition: Evidence from Korean speakers of English as a foreign language. *Journal of Psycholinguistic Research*, 52, 1325-1343.

Baek, H., Choi, W., & Gordon, P. C. (2023). Reading spaced and unspaced Korean text: Evidence from eye-tracking during reading. *The Quarterly Journal of Experimental Psychology*, 76(5), 1072-1085.

Baek, H., Kim, T. W., & Choi, W. (2023). Benefits of a sign language guide application on Korean Sign Language users: A case study on the exhibition of a public museum. *The Journal of the Korea Contents Association*, 23(3), 614-623. (Written in Korean)

Tae, J., **Baek, H.**, Lee, Y., & Choi, W. (2022). The relationship between aging and cognitive control in performing a switching task: Evidence from a web-based experimental study. *Korean Journal of Psychology: General*, 41(5), 491-517. (Written in Korean)

Hwang, J., Takahashi, C., **Baek, H.**, Yeung, A., & Broselow, E. (2022). Do L1 tone language speakers enjoy a perceptual advantage for English contrastive prosody?. *Bilingualism: Language and Cognition*, 25(5), 816-826.

Lim, C., **Baek, H.**, & Choi, W. (2022). Activation of phonological and orthographic information during Korean visual word recognition: Evidence from a meta-analysis and a priming study. *The Korean Journal of Cognitive and Biological Psychology*, 34(4), 221-236. (Written in Korean)

Baek, H. (2022). Prosodic disambiguation in first and second language production: English and Korean. *Language and Speech*, 65(3), 598-624.

Baek, H., & Choi, W. (2022). Parafoveal processing of underlying phonological information during Korean sentence reading. *Attention, Perception, & Psychophysics*, 84(5), 1411-1416.

Baek, H. (2022). Prosodic cue weighting in the processing of ambiguous sentences by native and non-native speakers of English. *The Journal of the Acoustical Society of America*, 151(1), 158-167.

Baek, H. (2021). Korean speakers' use of prosody for the resolution of English PP attachment ambiguity. *Studies in Phonetics, Phonology, and Morphology*, 27(3), 403-424.

Baek, H., Kim, J., Kim, T., & Choi, W. (2021). An exploratory study on the comprehension of cultural heritage descriptions by deaf signers of Korean Sign Language. *Disability & Social Welfare*, 12(2), 175-192. (Written in Korean)

Baek, H., Kim, B., Lee, S., & Choi, W. (2021). Preview benefit of phonological and orthographic information during Korean sentence reading: An eye-tracking study. *Korean Journal of Linguistics*, 46(2), 401-427. (Written in Korean)

Kim, B., **Baek, H.**, Lee, Y., & Choi, W. (2021). Replication of word predictability effects using a web-based self-paced reading task. *The Korean Journal of Cognitive and Biological Psychology*, 33(2), 87-93. (Written in Korean)

Baek, H. (2012). Perception of English focus in yes-no questions by Korean EFL learners. *Journal of Studies in Language*, 28(2), 263-283.

Conference Proceedings

Yeung, A., **Baek, H.**, Takahashi, C., Buttner, S., Hwang, J., & Broselow, E. (2020). Too little, too late: A longitudinal study of English corrective focus by Mandarin speakers. In *Proceedings of the Linguistic Society of America 2020*, 5(1), 270-281.

Baek, H. (2019). A cross-linguistic comparison on the use of prosodic cues for ambiguity resolution. In *Proceedings of Meetings on Acoustics*, 36(1), 060005.

Yeung, A., **Baek, H.**, Takahashi, C., Duncan, J., Benedette, S., Hwang, J., & Broselow, E. (2019). Pitch range, intensity, and vocal fry in non-native and native English focus intonation. In *Proceedings of Meetings on Acoustics*, 36(1), 060004.

Takahashi, C., Kao, S., **Baek, H.**, Yeung, A., Hwang, J., & Broselow, E. (2018). Native and non-native speaker processing and production of contrastive focus prosody. In *Proceedings of the Linguistic Society of America 2018*, 3(1), 35:1-13.

Baek, H. (2018). Computational representation of unbounded stress: tiers with structural features. In *Proceedings of the 53rd Annual Meeting of the Chicago Linguistic Society*, 13-24.

Baek, H. & Yun, J. (2018). Prosodic disambiguation of syntactically ambiguous phrases in Korean. In *MIT Working Papers in Linguistics*, 88, 89-100.

Baek, H. (2017). A match theoretic approach to Korean intonational phonology. In *Proceedings of the 52nd Annual Meeting of the Chicago Linguistic Society*, 39-51.

Kao, S., Hwang, J., **Baek, H.**, Takahashi, C., & Broselow, E. (2016). International teaching assistants' production of English focus marking. In *Proceedings of Meetings on Acoustics*, 26(1), 1-13.

Manuscripts in Preparation

Yun, J. ... **Baek, H.** (Under revision). Korean sentence-final intonation with *wh*-indeterminates.

Baek, H. (In preparation). Alignment of contrastive pitch accents and lexical stress: A production study of native speakers and second language learners of English.

Baek, H., & Lee, S. (In preparation). Production of lexical and phrasal stress by Korean learners of English.

Baek, H., & Choi, W. (In preparation). What causes difficulty in discriminating non-native contrasts: Is it representation or auditory mapping?.

Baek, H., Kim, T.-W., & Choi, W. (In preparation). The effects of non-manual signals on the recognition of Korean Sign Language words signed by an avatar.

Baek, H., Park, Y. H., & Choi, W. (In preparation). The effects of spacing and morpheme boundary ambiguity on the processing of Korean compound nouns.

Baek, H., Larson, R., Luchkina, T., & Yun, J. (In preparation). Fronting or stranding of adjuncts in pre-posed VP: syntax-phonology interface.

Selected Presentations

Baek, H. (2024). Alignment of contrastive pitch accents and lexical stress: A production study of native speakers and second language learners of English. Poster presented at the 2024 Annual Meeting of the Linguistic Society of America. New York, NY. January 4-7, 2024.

Hwang, J., **Baek, H.**, & Broselow, E. (2023). Does minimal feature specification of Korean liquids predict N400?. Poster presented at PhonolEEGy 2. University of Massachusetts, Amherst. MA. May 26-27, 2023.

Hwang, J., **Baek, H.**, & Broselow, E. (2023). Korean speakers' perception of cues to liquid contrast: an EEG study. Poster presented at the Hanyang International Symposium on Phonetics and Cognitive Sciences of Language 2023. Hanyang University, Korea. May 26-27, 2023.

Baek, H., & Choi, W. (2023). Individual differences in the activation of phonological information during L2 visual word recognition. Poster presented at the International Convention of Psychological Science 2023. Brussels, Belgium. March 9-11, 2023.

Lee, E., **Baek, H.**, & Choi, W. (2023). A comparative study on information processing of human and avatar sign word during Korean Sign Language word recognition. Presented at the 2023 Annual Conference of the Korean Society for Cognitive and Biological Psychology. Yonsei University, Korea. February 17-18, 2023.

Baek, H., Kim, T., & Choi, W. (2022). Effects of non-manual signals on deaf signers' recognition of Korean Sign Language words signed by an avatar. Presented at the International Conference on Convergence Content 2022. Jeju, South Korea. December 21-23, 2022.

Baek, H., Gordon, P. C., & Choi, W. (2022). Effects of age and word frequency on Korean visual word recognition: Evidence from a web-based large scale lexical-decision task. Poster presented at the 63rd Annual Meeting of the Psychonomic Society. Boston, Massachusetts. November, 17-20, 2022.

Baek, H., Park, Y.-H., & Choi, W. (2022). The effects of spacing and morphological boundary ambiguity on the processing of Korean compound nouns. Presented online at the 2022 Annual Conference of the Korean Society for Cognitive and Biological Psychology. February 17-18, 2022.

Baek, H., Kim, J., Kim, T., & Choi, W. (2021). An exploratory study on the comprehension of cultural heritage descriptions by deaf signers of Korean Sign Language. Poster presented at the International Conference on Convergence Content 2021. Jeju, South Korea. December 19-21, 2021.

Baek, H. & Choi, W. (2021). Preview benefits of underlying and surface phonological information during Korean sentence reading. Poster presented online at the 2021 Annual Conference of the Korean Society for Cognitive Science. December 4, 2021.

Baek, H., Larson, R., Luchkina, T., & Yun, J. (2021). Effects of phonological constraints on adjunct fronting or stranding in VP preposing. Presented online at the 2021 KASELL Fall Conference on English Linguistics. November 13, 2021.

Baek, H. & Choi, W. (2021). Phonological priming effects in Korean visual word recognition revisited. Presented online at the 2021 Annual Conference of the Korean Society for Cognitive and Biological Psychology. July 16, 2021.

Baek, H. (2020). Use of prosody for ambiguity resolution by Korean ESL speakers. Presented online at the 2020 Joint International Conference co-hosted by the New Korean Association of English Language and Literature (NKAELL), Pan-Korea English Teachers Association (PKETA), and the Korean Association of Language Sciences (KALS). October 24, 2020.

Baek, H. (2020). Prosodic cue weighting in ambiguity resolution by native and non-native listeners. Poster presented online at the 33rd Annual CUNY Human Sentence Processing Conference. University of Massachusetts, Amherst. MA. March 19-21, 2020.

Baek, H. (2020). Prosodic disambiguation in L1 and L2 production. Poster presented at the 94th Annual Meeting of the Linguistic Society of America. New Orleans, Louisiana. January 2-5, 2020.

Yeung, A., **Baek, H.**, Takahashi, C., Buttner, S., Hwang, J., & Broselow, E. (2020). Too little, too late: a longitudinal study of English corrective focus by Mandarin speakers. Poster presented at the 94th Annual Meeting of the Linguistic Society of America. New Orleans, Louisiana. January 2-5, 2020.

Broselow, E., Hwang, J., **Baek, H.**, Takahashi, C., & Yeung, A. (2019). The use of focus prosody by L1 English speakers and Mandarin-English bilinguals. Poster presented at the Bilingualism Matters Research Symposium (BMRS). Edinburgh, UK. September 21, 2019.

Baek, H. (2019). A cross-linguistic comparison on the use of acoustic cues for ambiguity resolution. Poster presented at the 177th Meeting of the Acoustical Society of America (ASA 177). Louisville, Kentucky. May 13-17, 2019.

Yeung, A., **Baek, H.**, Takahashi, C., Hwang, J., & Broselow, E. (2019). Pitch range, intensity, and vocal fry in non-native and native English focus intonation. Poster presented at the 177th Meeting of the Acoustical Society of America (ASA 177). Louisville, Kentucky. May 13-17, 2019.

Baek, H., Hwang, J., Takahashi, C., Yeung, A., Duncan, J., Benedett, S., & Broselow, E. (2019). Are non-native speakers better at producing contrastive focus? Poster presented at the 4th Intonation Workshop. University of Toronto. Toronto, Canada. February 15, 2019.

Takahashi, C., Yeung, A., **Baek, H.**, Broselow, E., & Hwang, J. (2019). Processing prosody without

segments: native vs. non-native speakers. Poster presented at the 93rd Annual Meeting of the Linguistic Society of America (LSA 2019). New York City, New York. January 3-6, 2019.

Graf, T., Aksenova, A., **Baek, H.**, De Santo, A., Dolatian, H., Moradi, S., Rawski, J., Yang, S., & Heinz, J. (2018). Tiers and relativized locality across language modules. Presented at Parallels Between Phonology and Syntax Workshop. Meertens Instituut, Amsterdam. July 9, 2018.

Takahashi, C., Kao, S., **Baek, H.**, Yeung, A., Hwang, J., & Broselow, E. (2018). Native and non-native speaker processing and production of contrastive focus prosody. Presented at the 92nd Annual Meeting of the Linguistic Society of America (LSA 2018). Salt Lake City, Utah. January 4-7, 2018.

Takahashi, C., Kao, S., **Baek, H.**, Yeung, A., Huffman, M., Broselow, E., & Hwang, J. (2017). English Focus Prosody Processing and Production by Mandarin Speakers. Poster presented at the 174th Meeting of the Acoustical Society of America (ASA 174). New Orleans, Louisiana. December 4-8, 2017.

Takahashi, C., **Baek, H.**, Kao, S., & Yeung, A. (2017). Processing and production of English focus prosody by native English vs. Mandarin speakers. Poster presented at Processing Prosody across Languages, Varieties, and Nativeness Workshop (ProPro Workshop 2017). University of Tübingen. Tübingen, Germany. August 31-September 1, 2017.

Baek, H. & Yun, J. (2017). An experimental approach to syntax-prosody mapping in Korean. Presented at the 20th Meeting of the International Circle of Korean Linguistics (ICKL 20). University of Helsinki. Helsinki, Finland. June 27-29, 2017.

Baek, H. & Yun, J. (2017). Prosodic disambiguation of syntactically ambiguous phrases in Korean. Presented at the 13th Workshop on Altaic Formal Linguistics (WAF 13). International Christian University. Tokyo, Japan. May 25-28, 2017.

Baek, H. (2017). Computational representation of unbounded stress: tiers with structural features. Presented at the 53rd Annual Meeting of the Chicago Linguistic Society (CLS 53). University of Chicago. Chicago, Illinois. May 25-27, 2017.

Baek, H. (2016). Computational representation of unbounded stress: tiers with structural features. Presented at the Computational Phonology Workshop. Stony Brook University. Stony Brook, New York. December 12, 2016.

Kao, S., Takahashi, C., **Baek, H.**, Hwang, J., & Broselow, E. (2016). Pitch alignment and intensity cues in Mandarin speakers' production of English corrective focus. Presented at the 2nd workshop on Second Language Prosody (SLaP 2). University of Graz. Graz, Austria. November 18-19, 2016.

Kao, S., Hwang, J., **Baek, H.**, Takahashi, C., & Broselow, E. (2016). Longitudinal Study of International Teaching Assistants' Focus Prosody. Presented at the 35th Second Language Research Forum (SLRF 35). Teachers College, Columbia University. New York, New York. September 22-25, 2016.

Kao, S., Hwang, J., **Baek, H.**, Takahashi, C., & Broselow, E. (2016). International teaching assistants' production of focus intonation. Poster presented at the 171st Meeting of the Acoustical Society of America (ASA 171). Salt Lake City, Utah. May 23-27, 2016.

Baek, H. (2016). A match theoretic approach to Korean intonational phonology. Presented at the 52nd

Annual Meeting of the Chicago Linguistic Society (CLS 52). University of Chicago. Chicago, Illinois. April 21-23, 2016.

Teaching

Instructor of Record

Ajou University

ENG2211	Introduction to the English Linguistics
ENG3210	Applied Linguistics
ENG3211	English Phonetics

Korea University

ELED424	Applied English Linguistics (online)
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Stony Brook University

LIN425/532	Second Language Acquisition (online; co-taught with Yang Liu)
ESL193	Advanced Composition
ESL192	Intermediate Composition

Teaching assistant

Stony Brook University

LIN431	Structure of an Uncommonly Taught Language (Instructor: Michael Becker)
LIN201	Phonetics (Instructor: Marie Huffman)
LIN200	Languages in the USA (Instructor: Andrei Antonenko)

Korea University

Fall 2012	ELED 424	Applied English Linguistics (Instructor: Shinsook Lee)
Spring 2012	ELED 225	English Phonetics and Sound Patterns (Instructor: Shinsook Lee)

Awards & Grants

External awards and Grants

Research Grant for Junior Researchers in Liberal Arts & Social Sciences
(2022-2024, National Research Foundation of Korea)

Best Paper Award at International Conference on Convergence Contents
(2021, Korea Contents Association)

Stony Brook University

Linguistics Department Travel Grant	Spring 2020
Mildred and Herbert Weisinger Dissertation Fellowship	Fall 2019
Linguistics Department Research Grant	Fall 2019
SUNY Research Foundation Professional Development Fund	Spring 2019
Graduate Student Organization (GSO) Resource Access Project	Spring 2019
Graduate Student Employees Union (GSEU) Professional Development Awards	Spring 2016

Korea University

Scholarships for Academic Excellence	Spring 2012
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Services

Services to the department

Stony Brook University

Social media manager	2019-2020
Colloquium Series co-organizer	Fall 2015
Brown Bag Series organizer	Spring 2015

External services

Committee member	The Phonology-Morphology Circle of Korea, Psycholinguistics in Progress
Dissertation committee	Kyunghee Lee, Korea University. (Fall 2021). <i>An Analysis of English and Korean Vowels Produced by Korean ESL Learners.</i>
Reviewer	<i>Laboratory Phonology, Applied Psycholinguistics,</i> <i>Journal of East Asian Linguistics,</i> <i>International Review of Applied Linguistics in Language Teaching,</i> <i>International Journal of Bilingualism,</i> <i>Linguistic Research, Phonetics and Speech Sciences</i> <i>The Korean Journal of Developmental Psychology,</i> <i>The Korean Journal of Cognitive and Biological Psychology</i>
Editor	<i>Proceedings of the 2019 Annual Meeting on Phonology</i>
Organizing committee	The 7th Annual Meeting on Phonology (October 2019)
Panel member	Stony Brook University Libraries' 5th Annual Open Access Symposium: <i>Toward Equity and Open Knowledge</i> (March 2020)
Vice president	Stony Brook Korean Graduate Student Association (2015-2016)

Research Assistant/Internship

Research assistant

Stony Brook University

Fall 2015 - Spring 2020

Project title: Language Adaptation at Multiple Timescales in Native- and Non-Native Speakers

Supervisors: Susan Brennan, Ellen Broselow, Agnes He, Marie Huffman, Jiwon Hwang, Arthur Samuel

Research intern

Korea Institute for Curriculum and Evaluation

2013

Project title: Strategies for Improving the Affective Characteristics of Korean Students based on the Results of PISA and TIMSS

Supervisor: Seung Hyun Choe

Research assistant

Korea University

2012

Project title: Korean University Students' Listening Comprehension and Learning Effects of Connected Speech Processes in English

Supervisor: Shinsook Lee

Graduate assistant

Center for Teaching and Learning, Korea University

2011

Team: Teaching Support Team

Supervisor: Jungsook Sung

Certificates

Teaching Certificate (English Language)

Ministry of Education, Republic of Korea

2011

Skills

Experimental platforms: PsychoPy, E-prime, Experigen, Qualtrics

Experimental tools: Electroencephalography (EEG) with BioSemi's ActiveTwo system, Eye-tracking with SR Research's EyeLink 1000 Plus

Speech sound analysis: Praat

Programming languages: R, L^AT_EX, Python

Natural languages: Korean (native), English (fluent), Mandarin (intermediate), Persian (beginning)

(Last updated on January 17, 2024.)