

## CURRICULUM VITAE

### HAERIM HWANG

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### RESEARCH FOCUS

My research focus lies at the intersection of (psycho)linguistics and computational science. Specifically, I investigate fundamental issues in language acquisition, language processing, and language use via behavioral experiments and natural language processing techniques.

### POSITION

2022–Present Assistant Professor  
Department of English, Chinese University of Hong Kong

2021–2022 Part-time Lecturer  
Department of English Language and Literature, Korea University

### EDUCATION

#### Degree

- 2020 Ph.D., Second Language Studies  
University of Hawai‘i, Honolulu, HI, USA  
Dissertation: *A contrast between VP-ellipsis and Gapping in English: L1 acquisition, L2 acquisition, and L2 processing*  
Dissertation committee: Robert Bley-Vroman, Kamil Deen, William O’Grady, Amy Schafer, and Bonnie D. Schwartz (chair)
- 2013 M.A., English Language Education  
Seoul National University, Republic of Korea  
Thesis: *Phonetic-syntactic realization of pronouns in the English transitive construction*  
Thesis committee: Hyunkee Ahn, Jinhwa Lee, and Hyun-Kwon Yang (chair)
- 2008 B.A., Elementary Education (summa cum laude)  
B.A., English Language Education (double major)  
Korea National University of Education, Republic of Korea

#### Certification

- 2024 Professional Program in Artificial Intelligence  
Stanford University, Stanford, CA, USA

## PUBLICATIONS

### Monograph

Under contract **Hwang, H.** *Use of generative AI in second language writing*. Cambridge University Press Elements in Applied Linguistics Series. Cambridge University Press.

### Referred Journal Articles

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| Accepted | <b>Hwang, H.</b> , & Han, G. Real-time processing of passives versus actives: Different patterns during form retrieval and meaning construction. <i>Language, Cognition and Neuroscience</i> .   |
| In press | <b>Hwang, H.</b> Grammar searches for wh-questions in beginning-level child second language learners. <i>International Journal of Applied Linguistics</i> .  |
| 2026     | Kim, H., & <b>Hwang, H.</b> Verb-Centric or Balanced?: An NLP-Based Assessment of Word Class Contributions to L2 Writing Proficiency. <i>Assessing Writing</i> , 67, Article 100997. <a href="https://doi.org/10.1016/j.asw.2025.100997">https://doi.org/10.1016/j.asw.2025.100997</a>   |
| 2026     | Kim, H., Kim, K., & <b>Hwang, H.</b> Effects of goals and strategies on predictive processing: A visual world eye-tracking study on honorific agreement in Korean. <i>Linguistics</i> . Advance online publication. <a href="https://doi.org/10.1515/ling-2024-0203">https://doi.org/10.1515/ling-2024-0203</a>  |
| 2026     | Kim, H., & <b>Hwang, H.</b> Cognitive approaches to examining the modality-specific development of lexical sophistication in young EFL learners. <i>Vigo International Journal of Applied Linguistics</i> , 23, 83–114. <a href="https://doi.org/10.35869/vial.v0i23">https://doi.org/10.35869/vial.v0i23</a>  |
| 2025     | Kim, K., <b>Hwang, H.</b> , & Kim, J. Automated analysis of speech data from HALA: A voice onset detection tool for assessing language attrition. <i>Journal of Asia TEFL</i> , 22(4), 635–645. <a href="http://dx.doi.org/10.18823/asiatefl.2025.22.4.1.635">http://dx.doi.org/10.18823/asiatefl.2025.22.4.1.635</a>  |
| 2025     | <b>Hwang, H.</b> , & Han, G. Processing of passives using morphological information within the verb in a second language: Slower, but as robust as in a first language. <i>Studies in Second Language Acquisition</i> . Advance online publication. <a href="https://doi.org/10.1017/S0272263125101472">https://doi.org/10.1017/S0272263125101472</a>        |
| 2025     | <b>Hwang, H.</b> Evaluating the applicability of the transformer-based grammatical error correction system for assessing language accuracy. <i>Language Testing in Asia</i> . Advance online publication. <a href="https://doi.org/10.1186/s40468-025-00415-3">https://doi.org/10.1186/s40468-025-00415-3</a>  |
| 2025     | <b>Hwang, H.</b> , & Kim, K. Prediction of <i>there</i> -associated nouns based on verbs in expletive sentences: Effects of cue validity, proficiency, and immersion experience. <i>Bilingualism: Language and Cognition</i> . Advance online publication. <a href="https://doi.org/10.1017/S1366728925100709">https://doi.org/10.1017/S1366728925100709</a> |
| 2025     | <b>Hwang, H.</b> Assessing the performance of pretrained models for accurate and consistent classification of argument structure constructions. <i>Applied Artificial Intelligence</i> , 39, Article 2566798. <a href="https://doi.org/10.1080/08839514.2025.2566798">https://doi.org/10.1080/08839514.2025.2566798</a>                                      |

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**Referred Journal Articles (cont.)**

- 2025      **Hwang, H.**, & Kim, H. Genre-specific features of second language speech: Connectives in exposition and narration. *Applied Linguistics Review*. Advance online publication. <https://doi.org/10.1515/applrev-2024-0078>
- 2025      **Hwang, H.**, & Park, S. H. Sensitivity to honorific agreement: A window into predictive processing. *Linguistics Vanguard*. Advance online publication. <https://doi.org/10.1515/lingvan-2025-0006>
- 2025      **Hwang, H.**, & Kim, K. Effects of lexical frequency in predictive processing: Higher frequency boosts first language speed and facilitates second language prediction. *Language Learning*. Advance online publication. <https://doi.org/10.1111/lang.12718>
- 2025      **Hwang, H.**, & Park, S. H. The influence of word co-occurrence frequency on predictive processing in first and second languages: A webcam-based eye-tracking study. *Applied Psycholinguistics*, 46, Article e18. <https://doi.org/10.1017/S0142716425100052>
- 2025      **Hwang, H.**, Chang, X., & Sun, J. Generative AI is useful for L2 writing, but when, why, and for how long do learners use it? *Journal of Second Language Writing*, 69, Article 101230. <https://doi.org/10.1016/j.jslw.2025.101230>
- 2025      **Hwang, H.** Growth of lexical and syntactic complexity, accuracy, and fluency in spoken production of first language and second language children. *System*, 132, Article 103695. <https://doi.org/10.1016/j.system.2025.103695>
- 2025      Kim, H., & **Hwang, H.** Learning contexts and proficiency matter: L2 sensitivity to conventional and unconventional dative pattern. *Language and Cognition*, 17, Article e21. <https://doi.org/10.1017/langcog.2024.65>
- 2025      **Hwang, H.** The impact of subordination type and finiteness on second language development in timed impromptu writing: An NLP-based analysis using the Subordination Sophistication Analyzer. *Written Communication*, 42(1), 193–222. <https://doi.org/10.1177/07410883241286900>
- 2024      **Hwang, H.**, & Kim, H. Korean Syntactic Complexity Analyzer (KOSCA): An NLP tool for the analysis of syntactic complexity in second language production. *Language Testing*, 41(3), 506–529. <https://doi.org/10.1177/02655322231222596>
- 2024      **Hwang, H.** Wanna contraction in first language acquisition, child second language acquisition, and adult second language acquisition. *Bilingualism: Language and Cognition*, 27(3), 322–333. <https://doi.org/10.1017/S1366728923000640>
- 2024      **Hwang, H.** Development of morphological diversity in second language Korean: An NLP analysis using the Korean Morphological Richness Analyzer 1.0. *System*, 121, Article 103260. <https://doi.org/10.1016/j.system.2024.103260>
- 2024      Kim, H., & **Hwang, H.** Effects of pronominal reference on the integration of syntactic and semantic information in second language processing. *International Journal of Applied Linguistics*, 34(3), 1108–1122. <https://doi.org/10.1111/ijal.12548>

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### Referred Journal Articles (cont.)

- 2023      **Hwang, H.** Second language acquisition of Pseudo-VP-ellipsis and Gapping in Korean. *Language Research*, 59, 237–252. <https://doi.org/10.30961/lr.2023.59.3.237>
- 2023      Kim, H., Kim. K., Jo, K., **Hwang, H.** Sensitivity to syntactic dependency formation in child second language processing: A study of numeral quantifiers in Korean. *Language and Cognition*, 15(4), 763–785. <https://doi.org/10.1017/langcog.2023.16>
- 2023      **Hwang, H.** Do position and lexical knowledge matter in children's second language speech perception? *Lingua*, 289, Article 103527. <https://doi.org/10.1016/j.lingua.2023.103527>
- 2023      **Hwang, H.**, & Kim, H. Automatic analysis of constructional diversity as a predictor of EFL students' writing proficiency. *Applied Linguistics*, 44(1), 127–147. <https://doi.org/10.1093/aplin/amac046>
- 2022      Kim, H., & **Hwang, H.** Assessing verb-construction integration in young EFL learners: Analyses of written and spoken production. *Language Learning*, 72(2), 497–533. <http://doi.org/10.1111/lang.12480>
- 2022      **Hwang, H.** Syntactico-semantic realizations of pronouns in the English transitive construction: A corpus-based analysis. *Corpus Linguistics and Linguistic Theory*, 18(1), 115–143. <http://doi.org/10.1515/cllt-2019-0061>
- 2020      Kim, H., Shin, G-H., & **Hwang, H.** Integration of verbal and constructional information in the second language processing of English dative constructions. *Studies in Second Language Acquisition*, 42(4), 825–847. <http://doi.org/10.1017/S0272263119000743>
- 2020      Kim, H., Rah, Y., & **Hwang, H.** Testing usage-based approaches to assessing EFL learners' development of English argument structure constructions. *English Teaching*, 75(s1), 55–78. <http://doi.org/10.15858/engtea.75.s1.202006.55>
- 2020      **Hwang, H.**, Jung, H., & Kim, H. Effects of written versus spoken production modalities on syntactic complexity measures in beginning-level child EFL learners. *The Modern Language Journal*, 104(1), 267–283. <http://doi.org/10.1111/modl.12626>
- 2019      **Hwang, H.**, & Kim, H. A comparative analysis of EFL students' needs and evaluation of English curriculum: A case study from Korea. *English Teaching*, 74(4), 3–29. <http://doi.org/10.15858/engtea.74.4.201912.3>
- 2017      Kim, H., **Hwang, H.**, & Rah, Y. Young EFL students' reliance on path-breaking verbs in the use of English argument structure constructions. *Journal of Cognitive Science*, 18(3), 341–366. <http://doi.org/10.17791/jcs.2017.18.3.341>

### Chapters in Books

- Kim, H., Kim, K., Jo, K., & **Hwang, H.** (Accepted with minor revision). Assessing morphosyntactic complexity in child L2 learners of Korean: Exploring the roles of internal and external factors. In S. Choi (Ed.), *Acquisition of Korean: The state of the art*.

## Conference Proceedings

- In press      **Hwang, H.** GPT-5 Models for automated essay assessment: Examining the influence of model size. In *Online Conference Proceedings of International Conference on Emerging Technologies and Education* (ICETE 2026). Melbourne Institute of Technology.
- 2024      Mengoni, P., **Hwang, H.**, Shen, D. J., Li, Y., Wong, P. P. Y. Exploring the impact of interactive content on user experiences within a metaverse learning platform. In *ICSLT 2024: Proceedings of the 2024 10th International Conference on e-Society, e-Learning and e-Technologies (ICSLT)* (pp. 31–37). New York, NY: Association for Computing Machinery. <https://doi.org/10.1145/3678610.36786>
- 2024      **Hwang, H.** The role of first language in automated essay grading for second language writing. In A. M. Olney, I-A. Chounta, Z. Liu, O. C. Santos, & I. I. Bittencourt (Eds.), *Proceedings of the 25th International Conference on Artificial Intelligence in Education (AIED 2024)* (pp. 302–310). Springer Cham. [https://doi.org/10.1007/978-3-031-64299-9\\_25](https://doi.org/10.1007/978-3-031-64299-9_25)
- 2024      Wong, P. P. Y., Lee, J., Gonzales, W. D. W., Choi, S. H. S., **Hwang, H.**, Shen, D. J. New dimensions: The impact of the metaverse and AI avatars on social science education. In W. W. K. Ma, C. Li, W. F. Chun, H. H. Leong, A. Lu (Eds.), *Proceedings of the 17th International Conference on Blended Learning. Intelligent Computing in Education (ICBL 2024)* (pp. 90–101). Springer Singapore. [https://doi.org/10.1007/978-981-97442-8\\_7](https://doi.org/10.1007/978-981-97442-8_7)
- 2018      Deen, K., Bondoc, I., Camp, A., Estioca, S., **Hwang, H.**, Shin, G.-H., Takahashi, M., Zenker, F., & Zhong, J. Repetition brings success: Revealing knowledge of the passive voice. In A. B. Bertolini & M. J. Kaplan (Eds.), *Proceedings of the 42nd Annual Boston University Conference on Language Development* (pp. 200–213). Somerville, MA: Cascadilla Press.

## AWARDS/GRANTS/HONORS

- 2026–2028      Young Collaborative Research Grant (as Co-Principal Investigator)  
Research Grants Council, Hong Kong  
“Cross-Cultural Analytics: Using Big Data, Large Language Models, Knowledge Graphs and Rare Books to Chart the Influence of Chinese Culture in the West, 1550-1900”  
Amount: HK\$4,490,000
- 2025      Postgraduate Students Conference/Seminar Grants  
Research Grants Council, Hong Kong  
“Postgraduate Workshop/Seminar on AI Applications in Humanities”  
Amount: HK\$30,400
- 2025–2027      Early Career Scheme  
Research Grants Council, Hong Kong  
“The syntactic repertoire of second language learners: A new look with natural language processing and psycholinguistics”  
Amount: HK\$410,000

**AWARDS/GRANTS/HONORS (cont.)**

- 2025–2026     Direct Grant for Research  
 Faculty of Arts, The Chinese University of Hong Kong, Hong Kong  
 “Silent structure in mind and brain: Unveiling the cognitive and neural mechanisms behind the processing of elliptical constructions”  
 Amount: HK\$100,000
- 2025–2026     Korean Studies Grant  
 The Academy of Korean Studies, Republic of Korea  
 “Development, validation, and application of a user-friendly web platform for natural language processing of Korean data”  
 Amount: US\$10,700
- 2024–2027     Korea Institute for Curriculum and Evaluation, Republic of Korea (as Co-Investigator)  
 “Data Construction for Training Artificial Intelligence Systems”  
 Amount: KRW788,000,000 (≈ US\$565,077)
- 2024–2026     Future Leaders in Digital Humanities Fellows Program  
 The Chinese University of Hong Kong, Hong Kong  
 Amount: US\$5,250  
 (This is part of the project “Cross-Cultural Analytics: Fast-tracking Data Science into the Faculty of Arts Curriculum,” which the University Grants Committee has funded to Faculty of Arts for “Innovative Technology-in-Education” [Amount: HK\$8,000,000])
- 2024–2026     Research Data Management Development Fund  
 The Chinese University of Hong Kong, Hong Kong  
 “Corpus and artificial intelligence: A step toward automated essay scoring”  
 Amount: HK\$100,000
- 2023–2024     Direct Grant for Research  
 Faculty of Arts, The Chinese University of Hong Kong, Hong Kong  
 “Predictive processing in native and nonnative language: An interdisciplinary study combining psycholinguistics and computational linguistics”  
 Amount: HK\$94,971
- 2023–2024     Teaching Development and Language Enhancement Grant (as Collaborator)  
 University Grants Committee, Hong Kong  
 “CUHK CT-CITY - A new metaverse space for computational thinking”  
 Amount: HK\$ 442,875
- 2022            Granite Tower Best Teaching Award, Top 5%  
 Korea University, Republic of Korea
- 2022            Teacher Award  
 Seoul Bukbu District Office of Education, Republic of Korea
- 2022            Wiley Top Cited Article 2020–2021 Award  
 Effects of written versus spoken production modalities on syntactic complexity measures in beginning-level child EFL learners. *The Modern Language Journal*, 104(1), 267–283.

#### **AWARDS/GRANTS/HONORS (cont.)**

- 2020      College of Languages, Linguistics & Literature Excellence in Doctoral Dissertation Research Award  
University of Hawai‘i at Mānoa, USA  
“Contrasts between VP-ellipsis and Gapping in L1 acquisition, L2 acquisition, and L2 processing”  
Amount: US\$500
- 2020      Ruth Crymes Memorial Grant  
University of Hawai‘i at Mānoa, USA  
“L2 acquisition of contrasts in interpretive ambiguity between VP-ellipsis and Gapping”  
Amount: US\$500
- 2019      Dai Ho Chun Scholarship  
University of Hawai‘i at Mānoa, USA  
“How do different processes of speaking and writing affect syntactic complexity in child second language production?”  
Amount: US\$4,000
- 2019      Elizabeth Carr-Holmes Scholarship  
University of Hawai‘i at Mānoa, USA  
“Do L2 learners process verb gaps in sentence comprehension?”  
Amount: US\$300
- 2019      Paula Menyuk Travel Award  
Boston University Conference on Language Development, USA  
“L2 acquisition of contrasts in interpretive ambiguity between VP-ellipsis and Gapping”  
Amount: US\$330
- 2018      Elizabeth Carr-Holmes Scholarship  
University of Hawai‘i at Mānoa, USA  
“A contrast between VP-ellipsis and Gapping in English: L1 acquisition, child L2 acquisition, and adult L2 acquisition”  
Amount: US\$300
- 2018      Research Fund  
University of Hawai‘i at Mānoa, USA  
“Revisiting empty-category processing by L2 learners with only classroom exposure”  
Amount: US\$750
- 2017      CUNY Travel Award  
30th Annual CUNY Conference on Human Sentence Processing, USA  
“Revisiting empty-category processing by L2 learners with only classroom exposure”  
Amount: US\$400
- 2017      Graduate Student Organization Grant, University of Hawai‘i at Mānoa, USA  
“Revisiting empty-category processing by L2 learners with only classroom exposure”  
Amount: US\$300

**AWARDS/GRANTS/HONORS (cont.)**

- 2015–2020 Fulbright Scholarship, US Government, USA  
Amount: US\$70,000
- 2008 Best Grade Award, Korea Federation of Teacher's Associations, Republic of Korea
- 2006 Academic and Cultural Exchange Scholarship, Korea National University of Education, Republic of Korea  
Amount: US\$1,000
- 2004–2007 Excellence of Academics, Korea National University of Education, Republic of Korea  
Amount: US\$2,350

**INVITED TALKS/WORKSHOPS**

- 2025 **Hwang, H.** Natural language processing for Korean language data, Cyber Hankuk University of Foreign Studies, Seoul, Republic of Korea. (December 20)
- 2025 **Hwang, H.** EFL and ESL learners utilize generative AI in distinct ways in writing. Hong Kong Second Language Acquisition Research Forum, Hong Kong Polytechnic University, Hong Kong. (May 9)
- 2025 **Hwang, H.** Generative AI in English education. Ehwa Womans University, Seoul, Korea. (April 11)
- 2025 **Hwang, H.** The when, why, and how long of AI integration in second language writing. Hong Kong Association for Applied Linguistics. The Chinese University of Hong Kong, Hong Kong. (March 24)
- 2024 **Hwang, H.** AI and language. CUHK Knowledge Enrichment Programme – Sky is No Limit. The Chinese University of Hong Kong, Hong Kong. (December 20)
- 2024 **Hwang, H.** AI in language acquisition and processing. The International Association for Korean Language Education. Ehwa Womans University, Seoul, Korea. (July 6)
- 2024 **Hwang, H.** Analysis of second language production data in Korean using natural language processing, Cyber Hankuk University of Foreign Studies, Seoul, Republic of Korea. (June 22)
- 2024 Kim, K., & **Hwang, H.** Automated assessment of multilingual development and attrition based on reaction times: Focusing on HALA (Hawai'i Assessment of Language Access). ALAK (Applied Linguistics Association of Korea) Workshop. Hankuk University of Foreign Studies, Seoul, Republic of Korea. (April 13)
- 2023 **Hwang, H.** AI and language. CUHK Knowledge Enrichment Programme – Sky is No Limit. The Chinese University of Hong Kong, Hong Kong. (December 20)

## INVITED TALKS/WORKSHOPS (cont.)

- 2023           **Hwang, H.** Language models and psycholinguistics. 2023 ALAK (Applied Linguistics Association of Korea) Research Method Workshop Series. Seoul National University, Seoul, Republic of Korea. (September 2)
- 2022           **Hwang, H.** A self-paced reading task: Experimental design and analysis. College of Education, Seoul National University, Seoul, Republic of Korea. (November 15)
- 2022           **Hwang, H.** Artificial intelligence in applied linguistics. College of Education, Seoul National University, Seoul, Republic of Korea. (November 8)
- 2022           **Hwang, H.** Coh-Metrix workshop: Analysis of learner speech data. KAMALL (Korea Association of Multimedia-Assisted Language Learning) Digital Literacy Academy for Language Education Experts, Seoul, Republic of Korea. (June 10)
- 2022           **Hwang, H.** Python workshop: Text mining in Python. KAMALL (Korea Association of Multimedia-Assisted Language Learning) Digital Literacy Academy for Language Education Experts, Seoul, Republic of Korea. (March 11)
- 2019           **Hwang, H.**, & Schwartz, B. D. How do L1-Korean speakers understand English VP-ellipsis and Gapping? NINJAL-UHM Linguistics Workshop on Syntax-Semantics Interface, Language Acquisition, and Naturalistic Data Analysis, University of Hawai‘i at Mānoa, Honolulu, USA. (October 12)
- 2021           **Hwang, H.** An NLP tool for the analysis of constructional diversity. ALAK (Applied Linguistics Association of Korea) International Conference 2021 on Language Learning, the Brain, and Computers, Hankuk University of Foreign Studies, Seoul, Republic of Korea. (October 2)

## PRESENTATIONS AT PROFESSIONAL MEETINGS

- Forthcoming   **Hwang, H.** GPT-5 Models for automated essay assessment: Examining the influence of model size. International Conference on Emerging Technologies and Education (ICETE 2026), Melbourne Institute of Technology, Sydney, Australia. (February 9–10)
- 2025           Kim, K., **Hwang, H.**, Kim, J., Lee, H., Kim, Y., Baeg, J., & Han, G. Difficulty with 3SG -s in L2 English: A perceptual problem, not a knowledge deficit. 50 Boston University Conference on Language Development, Boston, USA. (November 7)
- 2025           **Hwang, H.**, & Han, G. Following the eyes: L1 and L2 Processing of passive vs. active voice. Quebec Conference on Language Learning and Teaching, Quebec City, Canada. (August 21)
- 2025           **Hwang, H.** Machine learning-based prediction of second language proficiency in Korean: The effect of first language. 32nd Japanese/Korean Linguistics Conference, Cornell University, Ithaca, USA. (June 13)

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**PRESENTATIONS AT PROFESSIONAL MEETINGS (cont.)**

- 2025 Ohba, A., Lee, Y., **Hwang, H.**, & Shimada, H. Testing the split grammar hypothesis: ±V-raising or ±PPI? 32nd Japanese/Korean Linguistics Conference, Cornell University, Ithaca, USA. (June 15)
- 2025 Han, G., **Hwang, H.**, & Cao, S. Real-time processing of passives vs. actives in L2 learners of English: a visual-world eye-tracking study. The International Conference on Theoretical East Asian Psycholinguistics, Waseda Research Innovation Center, Tokyo, Japan. (April 17)
- 2024 **Hwang, H.** Deep learning approach to classification of argument structure constructions. *15th International Conference of Experimental Linguistics*, Université Paris Cité, Paris, France. (October 25)
- 2024 Wong, P. P. Y., Lee, J., Gonzales, W. D. W., Choi, S. H. S., **Hwang, H.**, & Shen, D. J. New dimensions: The impact of the metaverse and AI avatars on social science education. *17th International Conference on Blended Learning*, University of Macau, Macau. (July 30)
- 2024 **Hwang, H.** The role of first language in automated essay grading for second language writing. *The 25th International Conference on Artificial Intelligence in Education (AIED 2024)*. Recife, Brazil. (July 10)
- 2024 Mengoni, P., **Hwang, H.**, Shen, D. J., Li, Y., Wong, P. P. Y. Exploring the impact of interactive content on user experiences within a metaverse learning platform. *2024 International Conference on e-Society, e-Learning and e-Technologies*, Rome, Italy. (June 22)
- 2024 **Hwang, H.** Ellipsis. Seoul National University, Seoul, Republic of Korea. (March 15)
- 2024 **Hwang, H.**, & Kim, K. Lexical frequency as a factor in optimizing second language prediction: A visual-world eye-tracking study. Hong Kong Second Language Acquisition Research Forum 2024, The Chinese University of Hong Kong, Hong Kong. (March 9)
- 2024 **Hwang, H.** Construction Classifier: Rule-based to Transformer-based models. Research Seminar Series. Department of English, The Chinese University of Hong Kong, Hong Kong. (February 23)
- 2024 **Hwang, H.** Lexical and syntactic accuracy, complexity, and fluency in L1 and L2 children's oral production. UZRT 2024 Early Language Learning in Formal Contexts. University of Zagreb, Croatia. (February 16)
- 2023 **Hwang, H.**, & Kim, K. Boosting second language prediction: The significance of lexical frequency. 2023 The Korean Association for the Study of English Language and Linguistics Winter Conference. Seoul National University, Seoul, Republic of Korea. (December 2)

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**PRESENTATIONS AT PROFESSIONAL MEETINGS (cont.)**

- 2023 Kim, K., **Hwang, H.**, & Kim, J., Lee, H., Kim, Y., & Baek, J. Sentence-position effects on L1-Korean learners' processing of L2-English third person singular *-s*. 2023 The Korean Association for the Study of English Language and Linguistics Winter Conference. Seoul National University, Seoul, Republic of Korea. (December 2)
- 2023 **Hwang, H.** Lost in transition: Language acquisition in children and machines. Architectures and Mechanisms for Language Processing Asia 2023, The Chinese University of Hong Kong, Hong Kong. (poster, December 1)
- 2023 **Hwang, H.**, & Kim, K. Connection between lexical frequency and second language prediction. 14th International Conference of Experimental Linguistics, Athens University, Athens, Greece. (October 19)
- 2023 **Hwang, H.** An automatic analysis of morphological diversity in second language Korean. 2023 Applied Linguistics Association of Korea International Conference, Jeju, Republic of Korea (hybrid). (October 12–13)
- 2021 **Hwang, H.** An NLP analysis of VP-ellipsis and Gapping in EFL input. 2021 KAPEE (Korea Association of Primary English Education) Workshop and Annual Conference, Gyeongin National University of Education, Anyang, Republic of Korea. (October 2)
- 2021 **Hwang, H.** Natural language processing, acquisition, and processing of VP-ellipsis and Gapping. 2021 KASELL (Korean Association for the Study of English Language and Linguistics) Spring Conference on English Linguistics, Hanyang Women's University, Seoul, Republic of Korea. (June 5)
- 2021 **Hwang, H.**, & Schwartz, B. D. Processing verb gaps in a second language. Bi-annual Conference on Generative Approaches to Language Acquisition–North America 9, University of Iceland in Reykjavík, Iceland. (poster, May 9)
- 2020 **Hwang, H.** Grammar search for *wh*-questions during task performance in English. 2020 KAPEE (Korea Association of Primary English Education) Workshop and Annul Conference, Gyeongin National University of Education, Anyang, Republic of Korea. (September 19)
- 2020 **Hwang, H.** Successful reconstruction of verb gaps in second language processing. Languages, Linguistics & Literature Graduate Student Conference, University of Hawai‘i at Mānoa, Honolulu, USA. (April 18)
- 2020 **Hwang, H.**, Choe, A., & Zenker, F. Construction counter: A tool to measure (nonnative) language development. Brown Bag Series, University of Hawai‘i at Mānoa, Honolulu, USA. (April 16)
- 2020 **Hwang, H.**, & Schwartz, B. D. Do second language learners process a verb gap? Chuo-UHM-UTokyo Student Conference on Linguistics, Psycholinguistics, and Second Language Acquisition, University of Hawai‘i at Mānoa, Honolulu, USA. (poster, January 17)

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**PRESENTATIONS AT PROFESSIONAL MEETINGS (cont.)**

- 2019      **Hwang, H.**, & Schwartz, B. D. L2 acquisition of contrasts in interpretive ambiguity between VP-ellipsis and Gapping. Boston University Conference on Language Development 44, Boston University, Boston, USA. (November 9)
- 2019      **Hwang, H.**, & Schwartz, B. D. On the interpretations of VP-ellipsis and Gapping in the English of L1-Korean speakers. Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA. (September 27)
- 2019      **Hwang, H.**, Jung, H. Y., & Kim, H. How do different processes of speaking and writing affect syntactic complexity in child second language production? International Cognitive Linguistics Conference 15, Kwansei Gakuin University, Nishinomiya, Japan. (poster, August 7)
- 2019      **Hwang, H.**. Second language perception of English stops by Korean-speaking child learners: Effects of position and lexical knowledge. Hanyang International Symposium on Phonetics and Cognitive Sciences of Language, Hanyang University, Seoul, Republic of Korea. (poster, May 24)
- 2018      Zenker, F., & **Hwang, H.**. Testing for island effects with topic structures in L1 Korean and L1/L2 English. Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA. (November 30)
- 2018      **Hwang, H.**. A proposal for testing interpretation contrasts between VP-ellipsis and Gapping. Chuo-UHM-UTokyo Student Conference on Linguistics, Psycholinguistics, and Second Language Acquisition, University of Hawai‘i at Mānoa, Honolulu, USA. (poster, September 14)
- 2018      Zenker, F., & **Hwang, H.**. Testing for island effects with topic structures in L1 Korean and L1/L2 English. Chuo-UHM-UTokyo Student Conference on Linguistics, Psycholinguistics, and Second Language Acquisition, University of Hawai‘i at Mānoa, Honolulu, USA. (poster, September 14)
- 2018      **Hwang, H.**. A pilot study on the contrast between VP-ellipsis and Gapping in second language acquisition. Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA. (February 9)
- 2017      Deen, K., Bondoc, I., Camp, A., Estioca, S., **Hwang, H.**, Shin, G., Takahashi, M., Zenker, F., & Zhong, C. Repetition Brings Success: Revealing knowledge of the passive voice. Boston University Conference on Language Development 42, Boston University, Boston, USA. (November 3)
- 2017      **Hwang, H.**, Kim, H., & Schwartz, B. D. Revisiting empty-category processing by L2 learners with only classroom exposure. CUNY 2017: Conference on Human Sentence Processing, MIT, Boston, USA. (poster, March 30)
- 2017      **Hwang, H.**, Kim, H., & Schwartz, B. D. Revisiting empty-category processing by L2 learners with only classroom exposure. Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA. (March 10)

## PRESENTATIONS AT PROFESSIONAL MEETINGS (cont.)

- 2016      **Hwang, H.** Perception of English stops by Korean children: Effects of position and lexical knowledge. Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA. (September 16)
- 2015      **Hwang, H.** Syntactico-semantic realizations of pronouns in the English transitive construction: A corpus-based analysis. Chuo-UHM-UTokyo Student Conference on Linguistics, Psycholinguistics, and Second Language Acquisition, University of Hawai‘i at Mānoa, Honolulu, USA. (poster, September 15)

## RELATED PROFESSIONAL ACTIVITIES

- 2026      Reviewer  
*Language Learning*
- 2026      Workshop Faculty Organizer  
*Postgraduate Workshop/Seminar on AI Applications in Humanities* (13–14 March)  
 The Chinese University of Hong Kong, Hong Kong
- 2025      Reviewer  
*Applied Linguistics, Asia TEFL, Bilingualism: Language and Cognition, Journal of Educational Computing Research, Journal of Second Language Writing, International Journal of Applied Linguistics, Korean Journal of Applied Linguistics, Language Learning, Linguistics Vanguard, Nature: Scientific Reports, Second Language Research, The Sociolinguistic Journal of Korea, Written Communication*
- 2025      Reviewer  
 Teaching Development and Language Enhancement Grant  
 The Chinese University of Hong Kong, University Grants Committee
- 2025      Reviewer  
 Hong Kong Association for Digital Humanities 2026 Conference
- 2025–     Editorial board member  
*Journal of Asia TEFL*
- 2025–     Editorial board member  
*The Korea English Education Society*
- 2025      Consultant  
 “Education and research in Digital Humanities”  
 Sungkyunkwan University (26 August)
- 2025      Consultant  
 “Use of AI and eye-tracking technologies for deaf communities”  
 Chosun University (16 July)

## RELATED PROFESSIONAL ACTIVITIES (cont.)

- 2025            Consultant  
“Recent research trend in English Education Utilizing AI”  
Department of English Language Education, Seoul National University (14 July)
- 2025–          Associate editor  
*Language Research*
- 2025          Panel  
“Faculty panel discussions on research data management”  
*Data Champions Inauguration Ceremony*,  
Library, The Chinese University of Hong Kong (March 13)
- 2024          Discussant  
“Implications of speaking more than a language for the linguistic and cognitive skills”  
*Faculty of Humanities New Directions Lecture Series*, The Hong Kong Polytechnic University (September 25)
- 2024          Reviewer  
Cambridge monograph proposal reviewer
- 2024          General chair  
*Postgraduate Roundtable in Applied Linguistics*, The Chinese University of Hong Kong, Hong Kong
- 2024–         Editorial board member  
*Journal of English Teaching through Movies and Media*
- 2024–         Editorial board member  
*Institute of Foreign Language Education*, Hankuk University of Foreign Studies
- 2024–         Board member  
*The Korean Association for the Study of English Language and Linguistics*
- 2024          Reviewer  
*Applied Linguistics, Assessing Writing, Computer Speech & Language, Journal of Second Language Writing, Language Learning, Lingua, RELC Journal, The Modern Language Journal*
- 2023–         Editorial board member, Reviewer  
*Pan-Pacific Association of Applied Linguistics*
- 2023          Reviewer  
*Applied Sciences, Asian-Pacific Journal of Second and Foreign Language Education, Behavioral Sciences, Bilingualism: Language and Cognition, Language Testing, TESOL Quarterly*

## RELATED PROFESSIONAL ACTIVITIES (cont.)

|           |  |
|-----------|--|
| 2023      | Consultant<br>Development of AI & digital literacy education program for pre-service secondary school teachers<br>AI Education Alliance and Policy Lab, Seoul National University                |
| 2023–     | Editorial board member<br><i>The Applied Linguistics Association of Korea</i>  |
| 2022      | Discussant<br>KAPEE (Korea Association of Primary English Education) 2022 Annual Conference,<br>Gyeongin National University of Education, Anyang, Republic of Korea (October 22)                |
| 2022      | Reviewer<br><i>Language and Cognition</i> , <i>Journal of Second Language Writing</i> , <i>The Modern Language Journal</i>   |
| 2021      | Reviewer<br><i>Journal of Research in Curriculum Instruction</i> , <i>Spanish Journal of Applied Linguistics</i> ,<br><i>TESOL Quarterly</i>   |
| 2021–     | Member<br>The Applied Linguistics Association of Korea   |
| 2021–2022 | Member<br>The Korean Association for the Study of English Language and Linguistics   |
| 2021      | Pre-service Teacher Trainer<br>Seoul National University of Education,<br>Sungok Elementary School, Seoul, Republic of Korea   |
| 2020–2021 | Member<br>Korea Association of Teachers of English   |
| 2020      | Reviewer<br><i>English Teaching, Language Assessment Quarterly</i>   |
| 2020      | Interpreter<br>2020 International Program for College Nursing Students<br>The Center for Asia-Pacific Exchange, Honolulu, USA (January 16, 23, February 4)                                       |
| 2019      | Volunteer<br>NINJAL-UHM Linguistics Workshop on Syntax-Semantics Interface, Language Acquisition, and Naturalistic Data Analysis<br>University of Hawai‘i, Honolulu, USA (October 12–October 13) |
| 2019      | Abstract Reviewer<br>Graduate Student Conference of the College of Languages, Linguistics, and Literature<br>University of Hawai‘i at Mānoa, Honolulu, USA (March 13–March 15)                   |

## RELATED PROFESSIONAL ACTIVITIES (cont.)

- 2019      Panelist  
Conference Proposals Workshop Panel  
Graduate Student Conference of the College of Languages, Linguistics, and Literature  
University of Hawai‘i at Mānoa, Honolulu, USA (March 6)
- 2019      Tech Support Volunteer  
The 6th International Conference on Language Documentation & Conservation  
University of Hawai‘i at Mānoa, Honolulu, USA (February 28–March 3)
- 2019      Interpreter  
2019 International Program for College Nursing Students  
The Center for Asia-Pacific Exchange, Honolulu, USA (January 18, 23)
- 2018      Panelist  
Experienced International TAs Give Advice and Answer Questions  
The Center for Teaching Excellence and the English Language Institute  
University of Hawai‘i at Mānoa, Honolulu, USA (August 13)
- 2018      Moderator  
2018 SNU International Conference on Linguistics  
Seoul National University, Seoul, Republic of Korea (June 15–16)
- 2017      Tech Support Volunteer  
The 25th Japanese Korean Linguistics Conference  
University of Hawai‘i at Mānoa, Honolulu, USA (October 12–14)
- 2017–     Shared Praat scripts as well as tutorial information and scripts for Psychopy with lab users  
Language Analysis and Experimentation (LAE) Labs, University of Hawai‘i at Mānoa, Honolulu, USA
- 2016–2017   Coordinator  
Language Acquisition Reading Group, University of Hawai‘i at Mānoa, Honolulu, USA
- 2016      Interpreter  
2016 International Program for College Nursing Students  
The Center for Asia-Pacific Exchange, Honolulu, USA (January 20, 27, 28)

## TEACHING

- 2026      ENGE 5460: Natural Language Processing for Applied Linguistics and Education  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2025      ENGE 3940: AI and Language  
Department of English, The Chinese University of Hong Kong, Hong Kong

## TEACHING (cont.)

- 2025      Invited Speaker  
              Applied English: Business Communication and Writing Skills  
              2025 Kunpeng Overseas Summer Scholarship Programme for Jiangsu Outstanding Undergraduate  
              The Asia-Pacific Institute of Business, The Chinese University of Hong Kong, Hong Kong (July 23)
- 2025      Invited Speaker  
              MA workshop on academic writing  
              The Chinese University of Hong Kong, Hong Kong (February 22)
- 2025      ENGE 5460: Natural Language Processing for Applied Linguistics and Education  
              Department of English, The Chinese University of Hong Kong, Hong Kong
- 2025      ENGE 3950: AI and its Applications  
              Department of English, The Chinese University of Hong Kong, Hong Kong
- 2024      Invited Speaker  
              Taster lecture on applied English linguistics  
              CUHK Information Day, The Chinese University of Hong Kong, Hong Kong (October 19)
- 2024      Invited Speaker  
              Workshop on academic writing for research postgraduate students  
              The Chinese University of Hong Kong, Hong Kong. (October 4)
- 2024      Invited Speaker  
              Applied English: Business communication and writing skills  
              The Asia-Pacific Institute of Business, The Chinese University of Hong Kong, Hong Kong (July 24)
- 2024      Invited Speaker  
              Effective English writing skills  
              Business School, The Chinese University of Hong Kong, Hong Kong (May 10)
- 2024      Invited Speaker  
              MA workshop on academic writing  
              The Chinese University of Hong Kong, Hong Kong (February 24)
- 2024      ENGE 5010: Theoretical Linguistics  
              Department of English, The Chinese University of Hong Kong, Hong Kong
- 2024      ENGE 5630: Cognitive Linguistics and its Application in Language Teaching  
              Department of English, The Chinese University of Hong Kong, Hong Kong
- 2023      ENGE 5010: Theoretical Linguistics  
              Department of English, The Chinese University of Hong Kong, Hong Kong

## TEACHING (cont.)

- 2023 ENGE 2620: Acquisition of English as a Second Language  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2023 ENGE 2960: The World in English: An Oxford Summer Programme  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2023 Invited Speaker  
Python Workshop: Analysis of learner speech data  
Department of English, Cyber Hankuk University of Foreign Studies  
(August 28)
- 2023 Invited Speaker  
Artificial Intelligence and language output; Python workshop: Machine translation and application of Hugging Face in utilizing large language models, tagging French data  
AI Education Alliance and Policy lab, Seoul National University, Seoul, Republic of Korea (July 7)
- 2023 Invited Speaker  
Deep learning; Python workshop: Regression analysis and Word2Vec  
AI Education Alliance and Policy lab, Seoul National University, Seoul, Republic of Korea (July 6)
- 2023 Invited Speaker  
Artificial Intelligence and language input; Python workshop: Corpus construction, text readability analysis, and question and answering  
AI Education Alliance and Policy lab, Seoul National University, Seoul, Republic of Korea (July 5)
- 2023 Invited Speaker  
Introduction to natural language processing; Python workshop: text preprocessing, speech recognition, and frequency analysis  
AI Education Alliance and Policy lab, Seoul National University, Seoul, Republic of Korea (July 4)
- 2023 Invited Speaker  
Introduction to eye-tracking in psycholinguistics  
Department of English Language Education, Seoul National University, Seoul, Republic of Korea (May 30)
- 2023 Invited Speaker  
Taster lecture on applied English linguistics  
The CUHK Programme Taster Fair, The Chinese University of Hong Kong, Hong Kong (April 1)
- 2023 ENGE 5410: Psycholinguistics  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2023 ENGE 3610: Psycholinguistics  
Department of English, The Chinese University of Hong Kong, Hong Kong

## TEACHING (cont.)

- 2022 Invited Speaker  
Analysis of eye-tracking data in R  
Department of English Language Education, Seoul National University, Seoul, Republic of Korea (December 6)
- 2022 ENGE 5010: Theoretical Linguistics  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2022 ENGE 5630: Cognitive Linguistics and its Application in Language Teaching  
Department of English, The Chinese University of Hong Kong, Hong Kong
- 2022 Invited Speaker  
Inferential statistics: ANOVA and t-tests  
Department of English, The Chinese University of Hong Kong, Hong Kong (November 24)
- 2022 Invited Speaker  
Taster lecture on applied English linguistics  
CUHK Information Day, The Chinese University of Hong Kong, Hong Kong (October 15)
- 2022 Invited Speaker  
Artificial intelligence and English education  
Seoul National University of Education & Sindorim Elementary School, Seoul, Republic of Korea (May 17)
- 2022 Invited Speaker  
Python and R workshop: Keyword analysis in Python & ordinal regression analysis in R  
Department of Physical Education, Sangji University, Wonju, Republic of Korea (April 28–30)
- 2022 Lecturer  
ENGL423: Psycholinguistics (in English)  
Department of English Language and Literature, Korea University, Seoul, Republic of Korea
- 2022 Invited Speaker  
Python workshop: Artificial intelligence in applied linguistics  
Department of English Education, Gyeongin National University of Education, Anyang, Republic of Korea (February 17)
- 2022 Invited Speaker  
Python workshop: Lexical and syntactic analysis of Korean data  
Department of Korean Studies, Ewha Womans University, Seoul, Republic of Korea (February 4–6)

## TEACHING (cont.)

- 2021      Lecturer  
ENG947-00: Psycholinguistics (in English, online)  
Department of English Language and Literature, Korea University, Seoul,  
Republic of Korea
- 2021      Invited Speaker  
Python workshop: Frequency and semantic analysis of Korean data  
Department of Korean Studies, Ewha Womans University, Seoul, Republic of Korea  
(September 24–26)
- 2021      Invited Speaker  
English education: Theory and practice  
Seoul National University of Education & Sungok Elementary School, Seoul,  
Republic of Korea (April 27)
- 2020      Invited Speaker  
R workshop: Data visualization  
Department of English Language Education, Seoul National University, Seoul,  
Republic of Korea (December 11)
- 2020–2022    Full-time Teacher  
Sungok Elementary School, Seoul, Republic of Korea
- 2020      Instructor of Record  
SLS 480N: Second Language Analysis: Basic Language Concepts for Second Language  
Learning, Teaching, & Use (transitioned to online due to COVID-19)  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA
- 2020      Invited Speaker  
Praat workshop: Analysis of vowel features  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA  
(January 29, February 3)
- 2019      Instructor of Record  
SLS 485: Professionalism in Second Language Studies  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA
- 2019      Invited Speaker  
Praat workshop: Analysis of vowel features  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA  
(September 11)
- 2019      Invited Speaker  
Praat workshop: Analysis of vowel features  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA  
(January 22)

## TEACHING (cont.)

- 2018–2019      Instructor of Record  
SLS 441: Language Concepts for Second Language Learning and Teaching  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA
- 2018      Instructor of Record  
SLS 302: Second Language Learning (online and offline hybrid course)  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA
- 2017      Instructor of Record  
SLS 302: Second Language Learning  
Department of Second Language Studies, University of Hawai‘i at Mānoa, USA
- 2014–2015      Full-Time Teacher  
Danghyun Elementary School, Seoul, Republic of Korea
- 2008–2014      Full-Time Teacher  
Cheonggye Elementary School, Seoul, Republic of Korea

## RESEARCH EXPERIENCE

- 2023      Research Consultant  
Trend analysis of research on shooting  
Hanshin University, Seoul, Republic of Korea
- 2022–2023      Research Consultant  
Analysis of elite athletes' shooting skills through text mining  
Masan University, Seoul, Republic of Korea
- 2022–2023      Research Consultant  
Music class project: Meet, share, and enjoy  
Changdong Elementary School, Seoul, Republic of Korea
- 2022      Research Consultant  
Meta-analysis in R  
Liberal arts college, Semyung University, Republic of Korea
- 2021      Research Consultant  
Extraction of intransitive clauses in Python  
Department of English Language and Literature, Yonsei University, Republic of Korea
- 2020      Research Consultant  
Classification of clauses into argument structure constructions in Python  
Department of English Language and Literature, Yonsei University, Republic of Korea
- 2016      Research Assistant  
Comparison among applied linguistics programs in USA and Canada  
Department of Second Language Studies, University of Hawai‘i at Mānoa

## RESEARCH EXPERIENCE (cont.)

- 2013           Part-time Research Assistant  
                 Korea Institute of Curriculum and Evaluation, Seoul, Republic of Korea
- 2011           Part-time Research Assistant  
                 Doosan publishing Co., Seoul, Republic of Korea

## STUDENT SUPERVISION

### Ph.D. Supervision

- 2025–       Tianai Zhang
- 2024–       Dian Jiang
- 2023–       Xingyu Chang (co-supervised with Jette Hansen Edwards)
- 2023–       Christopher Gethen Hardwick Seymour (co-supervised with Jookyoung Jung)
- 2022–       Wenrui Zhang (co-supervised with Jookyoung Jung)
- 2023–2025   Jianjun Li (co-supervised with Jookyoung Jung)  
                 Dissertation: Chinese EFL learners' reading motivation: A dynamic systems theory perspective

### M.A. Supervision

- 2026       Yuwei Luo  
                 M.A. project: The role of task-specific motivation in shaping strategic engagement in TBLT-framed writing: a case study of multilingual learners' queries with generative AI
- 2025       Ziwei Xiao  
                 M.A. project: The role of anxiety and emotion on tone perception in Mandarin Chinese
- 2024       Mo Tin Lam  
                 M.A. project: Learning English conditional sentences: An experiment of Kahoot! as a lesson activity
- 2023       Yan Tung Chow  
                 M.A. project: Modal verbs and email: Applying the cognitive approach in secondary school students with a focus on *will*, *would*, *may*, and *might*

## OTHER CERTIFICATION/CEERTIFICATE

|      |   |
|------|---|
| 2024 | <b>Certificate of Completion: AI Literacy for Academics</b><br>Dixon Humphreys, AI Capability Partners, UK  |
| 2013 | <b>Elementary School Teacher Certification (Level 1)</b><br>Seoul Metropolitan Office of Education, Republic of Korea   |
| 2009 | <b>Attestation De Réussite, DELF A2 [Certificate of achievement, Diploma in French]</b><br>République Française Ministère De l'éducation Nationale [French Ministry of Education] |
| 2008 | <b>Secondary School Teacher Certification (English, Level 2)</b><br>Korea National University of Education, Republic of Korea   |
| 2008 | <b>Elementary School Teacher Certification (Level 2)</b><br>Korea National University of Education, Republic of Korea   |

## LANGUAGE

Korean (native)  
English (advanced)  
Mandarin Chinese (beginner)  
French (beginner)

## TECHNICAL SKILL

Programming languages: HTML/CSS, JavaScript, MATLAB, Python, R  
Experiment builders: E-Prime, Gorilla, LabVanced, PCIBex, PsychoPy  
Eye-tracking methods: EyeLink 1000 (plus), SMI, GazeRecorder, Gorilla  
EEG method: GTEN 200