

Curriculum Vitae

Hakyung Sung

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EDUCATIONS

Jun. 2025	University of Oregon <i>Ph.D. Linguistics</i>
Dec. 2024	University of Oregon <i>M.S., Computer Science</i>
Feb. 2018	Seoul National University <i>M.A., English Education</i>
Feb. 2016	Ewha Womans University <i>B.A., English Language and Literature</i>

PROFESSIONAL APPOINTMENTS

Aug. 2025 - Department of Psychology, Rochester Institute of Technology
Assistant Professor

HONORS / AWARDS

- *Professional Development Graduate Scholarship* (2023). University of Oregon
- *Raymund Fellowship* (2021). University of Oregon
- *Promising Scholar Award* (2021). University of Oregon
- *Lockey Graduate Science Award* (2021). University of Oregon
- *Top-off Award in Linguistics Department* (2021). University of Oregon
- *Excellence of Academics* (2017), Seoul National University
- *Scholarship of Graduate Student Instructor* (2017), Seoul National University

EXTERNAL FELLOWSHIPS / GRANTS

- PI (2024.9 - 2025.6). *Evaluating argument structure construction-based indices for construct validity in assessing (English as a) second language grammatical proficiency*. PI: Hakyung Sung. Supervisor: Kristopher Kyle (University of Oregon); Mikyung K. Wolf & Ikkyu Choi (ETS). Harold Gulliksen Psychometric Research Fellowship sponsored by ETS (\$33,000)

- Co-researcher (2024.2 - 2025.1). *Towards inclusive NLP research: Developing language models on second language Korean*. PI: Gyu-Ho Shin (University of Illinois, Chicago). Sponsored by the Academy of Korean Studies (\$13,200)

PEER-REVIEWED PUBLICATIONS

5: Journal article; †10: Conference proceedings

- [15] †**Sung, H.**, & Kyle, K. (*accepted*). ASC analyzer: A Python package for measuring argument structure construction usage in English texts, In *Proceedings of the 2nd Workshop on Construction Grammars and NLP*.
- [14] **Sung, H.**, Wolf, MK. Suhan, M, & Kyle, K. (2025). Lexical richness in young English learners' writing: A focus on Opinion and Listen-Write task types, *Assessing Writing*.
<https://doi.org/10.1016/j.asw.2025.100975>
- [13] **Sung, H.**, & Kyle, K. (2025). Usage-based analysis of L2 oral proficiency: Characteristics of argument structure construction use, *Studies in Second Language Acquisition*.
<https://doi.org/10.1017/S0272263125100995>
- [12] †**Sung, H.**, Csuros, K., & Sung, M-C (2025). Comparing human and LLM proofreading in L2 writing: Impact on lexical and syntactic features. In *Proceedings of the 20th Workshop on Innovative Use of NLP for Building Educational Applications*. <https://aclanthology.org/2025.bea-1.2/>
- [11] †**Sung, H.**, Shin, G-H., Lee C., Sung, Y-K., & Jung, B-K (2025). UD-KSL Treebank v1.3: A semi-automated framework for aligning XPOS-extracted units with UPOS tags, In *Proceedings of the 19th Linguistic Annotation Workshop (LAW-XIX)*. <https://aclanthology.org/2025.law-1.9/>
- [10] †**Sung, H.**, & Shin, G-H. (2025). Second language Korean Universal Dependency treebank v1.2: Focus on data augmentation and annotation scheme refinement. In *Proceedings of the Workshop on Resources and Representations for Under-Resourced Languages and Domains (RESOURCEFUL-2025)*. <https://aclanthology.org/2025.resourceful-1.4/>
- [9] †**Sung, H.**, & Kyle, K. (2024). Leveraging pre-trained language models for linguistic analysis: A case of argument structure constructions. In *the Association for Computational Linguistics: EMNLP 2024*. <https://aclanthology.org/2024.emnlp-main.415/>
- [8] †**Sung, H.**, & Shin, G-H. (2024). Constructing a dependency treebank for second language learners of Korean. In *Proceedings of the International Conference on Language Resources and Evaluation (LREC-COLING 2024)*. <https://aclanthology.org/2024.lrec-main.332/>
- [7] †**Sung, H.**, & Kyle, K. (2024). Annotation scheme for English argument structure constructions treebank, In *Proceedings of the 18th Linguistic Annotation Workshop (LAW-XVIII)*.
<https://aclanthology.org/2024.law-1.2/>
- [6] **Sung, H.**, Cho, S., & Kyle, K. (2024). An empirical evaluation of lexical diversity indices in L2 Korean writing assessment, *Language Assessment Quarterly*, 1-22.
<https://doi.org/10.1080/15434303.2024.2311728>

- [5] Kyle, K., **Sung, H.**, Eguchi, M., & Zenker, F. (2024). Evaluating evidence for the reliability and validity of lexical diversity indices in L2 oral task responses, *Studies in Second Language Acquisition*, 1-22. <https://doi.org/10.1017/S0272263123000402>
- [4] [†]**Sung, H.**, & Shin, G-H. (2023). Diversifying language models for lesser-studied languages and language-usage contexts: A case of second language Korean, In *Findings of the Association for Computational Linguistics: EMNLP 2023*. <https://aclanthology.org/2023.findings-emnlp.767/>
- [3] [†]**Sung, H.**, & Shin, G-H. (2023). Towards L2-friendly pipelines for learner corpora: A case of written production by L2-Korean learners, In *Proceedings of the 18th Workshop on Innovative Use of NLP for Building Educational Application*, 72-82, Association for Computational Linguistics. <https://aclanthology.org/2023.bea-1.6/>
- [2] [†]Kyle, K., & **Sung, H.** (2023). An argument structure construction treebank, In *Proceedings of the Workshop on Construction Grammars and NLP (CxGs+NLP, GURT)*, 51–62, Association for Computational Linguistics. <https://aclanthology.org/2023.cxgsnlp-1.7/>
- [1] **Sung, H.** (2019). Korean EFL learners’ processing of English caused-motion construction, *English Teaching*, 74(1), 49-73.

WORKSHOPS

- **Sung, H.** & Kyle, K. (Sep. 2024). *The construction of high-quality manually annotated datasets for fine-tuning LLMs for automatic linguistics analyses*. Workshop at 16th American Association for Corpus Linguistics Conference (AAAL 2024). Eugene, OR.

PRESENTATIONS

Main presenter

- [11] **Sung, H.**, & Kyle, K. (Sep. 2025). *Evaluating grammatical complexity in L2 writing: Introducing the Argument Structure Construction Analyzer*, Paper presenting at SLRF 2025, Flagstaff, AZ.
- [10] **Sung, H.**, & Shin, G-H. (Jun. 2025). *To what extent do lexical richness indices explain learner proficiency? An example from L2-Korean writing*. Paper presenting at EuroSLA 34, Tromsø, Norway.
- [9] **Sung, H.**, & Wolf, M., Suhan, M., & Kyle, K. (Mar. 2025). *Investigating the lexical characteristics of young EFL students’ writing across different test tasks*. Paper presenting at AAAL 2025. Denver, CO.
- [8] **Sung, H.**, & Kyle, K. (Sep. 2024). *Building a robust argument structure construction (ASC) treebank and an automatic ASC tagger*. Paper presenting at AAAL 2024. Eugene, OR.
- [7] **Sung, H.** (Apr. 2024). *Exploring the relationship between argument structure construction usage and L2 English proficiency*. Paper presenting at LARC 2024. Provo, UT.
- [6] **Sung, H.**, & Kyle, K. (Mar. 2024). *The relationship between L2 oral proficiency interview scores and characteristics of argument structure construction use*. Paper presenting at AAAL 2024.

Houston, TX.

- [5] **Sung, H.,** & Shin, G-H. (Sep. 2023). *Comparison of morphological analyzers for L2-Korean written corpora*. Poster presenting at EuroSLA 32, Birmingham, UK.
- [4] **Sung, H.,** & Kyle, K. (May. 2023). *Automatic identification of motion constructions in L1 and L2 English spoken corpora*. Paper presenting at ICCG12. Prague, Czech Republic.
- [3] **Sung, H.,** & Kyle, K. (Mar. 2023). *Exploring evenness lexical diversity indices in L2 written and spoken corpora*. Paper presenting at AAAL 2023. Portland, OR.
- [2] **Sung, H.** (Sep. 2022). *On the development of motion constructions of Korean L2 English learners: A cross-sectional spoken corpus-based study*. Paper presenting at AACL 2022. Flagstaff, AZ.
- [1] **Sung, H.,** & Cho, S. (Aug. 2022). *Evaluating lexical diversity of Korean as a second language learners' writing using NLP tool*. Paper presenting at EuroSLA 31. Fribourg, Switzerland.

Not main presenter

- [9] Kyle, K., **Sung, H.,** Biber, D., Reppen, R., & Egbert, J. (Mar. 2025). *The development and evaluation of an open-source lexicogrammatical complexity analysis tool: The Lexicogrammatical Tagger*. Paper presenting at AAAL 2025. Denver, CO.
- [8] Diantoro, C., **Sung, H.,** & Baese-Berk, M. (May. 2024). *Differences in prominence-related acoustic measurements in L2 read speech as a function of L1 framing typology*. Poster presenting at ASA. Ottawa, Canada.
- [7] Kyle, K., **Sung, H.,** & Eguchi, M. (Mar. 2024). *Identifying lexico-grammatically ambiguous language features using large language models*. Invited colloquium at AAAL 2024. Houston, TX.
- [6] Kyle, K., & **Sung, H.** (Mar. 2024). *The relationship between L2 holistic writing proficiency scores and characteristics of argument structure construction use*. Paper presenting at AAAL 2024. Houston, TX.
- [5] Kyle, K., & **Sung, H.** (May. 2023). *Robust automatic annotation of argument structure constructions*. Paper presenting at ICCG12. Prague, Czech Republic.
- [4] Kyle, K., **Sung, H.,** Eguchi, M., & Zenker, F. (Mar. 2023). *The reliability and validity of lexical diversity indices in second language oral productions*. Paper presenting at AAAL 2023. Portland, OR.
- [3] Diantoro, C., **Sung, H.,** & Baese-Berk, M. (Mar. 2023). *Comparing stress patterns of verbs and satellites in L1/L2 spoken corpora based on framing typology*. Poster presenting at AAAL 2023. Portland, OR.
- [2] Kyle, K., **Sung, H.,** Eguchi, M., & Zenker, F. (Sep. 2022). *Evaluating the reliability and validity of lexical diversity indices in second language oral corpora*. Paper presenting at AACL 2022. Flagstaff, AZ.
- [1] Cho, S., & **Sung, H.** (Sep. 2022). *Investigating lexical diversity in L2 Korean writing: Focusing*

on multiple indices and Korean tokenizers. Paper presenting at ACL 2022. Flagstaff, AZ.

THESIS

- Sung, H. (2025). *Measuring lexicogrammatical complexity and sophistication in second language English production: Development and validation of argument structure construction-based indices*. (Unpublished doctoral dissertation). University of Oregon. Advisor: Dr. Kristopher Kyle.
- Sung, H. (2018). *Korean EFL learners' processing of English caused-motion construction*. (Unpublished master's thesis). Seoul National University. Advisor: Dr. Hyun-Kwon Yang. <https://s-space.snu.ac.kr/handle/10371/142034>

OTHER RESEARCH PRODUCTS

- *English ASC Treebank*: The ASC Treebank is a linguistically annotated dataset of argument structure constructions (ASCs), informed by research in the usage-based constructionist approach to language learning. The first version of the treebank includes 26,437 annotated ASC tokens, while the second version contains 22,069 tokens. Developed in collaboration with Kris Kyle (University of Oregon). <https://github.com/LCR-ADS-Lab/ASC-Treebank>
- *UD Korean-KSL dataset*: This UD Korean-KSL dataset is a dependency treebank of L2 Korean, featuring morpheme and Universal Dependency manual annotations. The latest version includes ~2K manually annotated sentences from the written data produced by L2-Korean learners at various proficiency levels, with the dataset continuing to grow. Developed in collaboration with Gyu-Ho Shin (University of Illinois, Chicago): https://github.com/UniversalDependencies/UD_Korean-KSL/tree/dev

PROFESSIONAL EXPERIENCE

Sep. 2022 - Dec. 2024	Graduate Employee, University of Oregon
Jun. 2024 - Jul. 2024	Summer Intern, Educational Testing Service (ETS) 2024 Ida Lawrence Research Summer Internship Program
Jun. 2022 - Aug. 2022	Summer Intern, The American Council on the Teaching of Foreign Languages (ACTFL)
Oct. 2021 - Sep. 2022	Electronic Resources Student Assistant, University of Oregon Library
Mar. 2018 - Feb. 2021	English Teacher, Daewon & Gyeonggi Foreign Language High Schools

TEACHING EXPERIENCE

- Rochester Institute of Technology
 - LING-351 *Language Technology and Large Language Models* (Fall 2025)
 - LING-581 *Natural Language Processing I* (Fall 2025)
- University of Oregon
 - LING-150 *The Structure of English Words* (Fall 2024)

PROFESSIONAL SERVICES

Upon request *Ad-hoc* Reviewer (Journal manuscript; [†]Conference proceeding; ^{††}Conference abstract)

- *Bilingualism: Language and Cognition*
- *Language Assessment Quarterly*
- *Language Learning*
- *Language Teaching Research*
- *International Review of Applied Linguistics in Language Teaching*
- *Journal of Second Language Writing*
- *Studies in Second Language Acquisition*
- *System*
- [†]*ACL Rolling Review* (Feb and May 2025)
- [†]*Linguistic Annotation Workshop*
- [†]*Midwest Association of Language Testers (MwALT) Best Student Paper*
- [†]*Workshop on Innovative Use of NLP for Building Educational Application*
- ^{††}*International American Association for Corpus Linguistics (AACL) Conference*
- ^{††}*The Second Language Research Forum (SLRF) 2025*

Dec. 2024 - Student Editorial Board Member, *Journal of Second Language Writing*

Sep. 2024 Conference Committee, the 16th *American Association for Corpus Linguistics Conference*

Jan. 2022 - Graduate Student Faculty Representative Liaison, Linguistics, University of Oregon
Jun. 2023

Mar. 2017 - Graduate Student Instructor, Seoul National University
Feb. 2018

OTHER SKILLS

- Languages: English (Full working proficiency); Korean (Native); Spanish (Reading proficiency)
- Programming Languages: Python, R
- Documentation/Typesetting: Markdown, LaTeX