

SOO HYUN RYU

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EDUCATION

University of Michigan, Ann Arbor, MI Ph.D. in Psychology (Cognition and Cognitive Neuroscience)	Aug 2020 -
University at Buffalo, Buffalo, NY M.S. in Computational Linguistics	Aug 2017 - May 2019
Korea University, Republic of Korea Earned 9 graduate course credits in Psychology	Mar 2017 - Jun 2017
Yonsei University, Republic of Korea B.A. in Psychology & French Language and Literature	Mar 2010 - Feb 2017

TEACHING

Graduate Student Instructor PSYCH 240 Introduction to Cognitive Psychology COGSCI 200 Introduction to Cognitive Science	21W, 21F, 22W 22F
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EXPERIENCE

Deloitte <i>Machine Learning & NLP Intern</i>	Jun 2022 - Aug 2022 <i>Data Science Team</i>
Lionbridge <i>Korean Grammar Developer</i>	Aug 2019 - Aug 2020 <i>Remote Freelancer</i>
NLP*CL Lab <i>Visiting Researcher</i>	Jun 2019 - Aug 2020 <i>School of Computing, KAIST</i>
Natural Language Understanding Lab <i>Research Intern</i>	May 2018 - Aug 2018 <i>Department of Biomedical Informatics, University at Buffalo</i>
Linguistic Psychology Lab <i>Research Intern</i>	Jan 2016 - Aug 2017 <i>Department of Psychology, Korea University</i>
Human Development Lab <i>Research Intern</i>	Mar 2015 - May 2015 <i>Department of Psychology, Yonsei University</i>
Asiana Airlines <i>Intern</i>	Sep 2013 - Aug 2014 <i>Chicago O'Hare Airport</i>

TECHNICAL STRENGTHS

Computer Languages	Python, R, Java, Prolog, SQL, Unix shell script
Software & Tools	SPSS, Excel, L ^A T _E X

HONORS AND AWARDS

Korean Government Study Abroad Scholarship
Semester Honors, Yonsei University

2017-2019
2012 Fall, 2015 Spring

PUBLICATIONS

Ryu, S. H., Yang, W. and Park, J. 2022. Flexible Acceptance Condition of Generics from a Probabilistic Viewpoint: Towards Formalization of the Semantics of Generics. *Journal of Psycholinguistic Research*

Song, H.* Ryu, S. H.*, Lee, H. and Park, J. 2021. A Large-scale Comprehensive Abusiveness Detection Dataset with Multifaceted Labels from Reddit. In Proceedings of the 25th Conference on Computational Natural Language Learning (CoNLL), pp. 552-561. **two authors made equal contribution*

Ryu, S. H., and Lewis, R. L. 2021. Accounting for Agreement Phenomena in Sentence Comprehension with Transformer Language Models: Effects of Similarity-based Interference on Surprisal and Attention. In Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics (CMCL), pp 61-71. **Best Student Paper Award**

Ryu, S. H., and Chaves, R. P. 2019. On the Interaction Between Dependency Frequency and Semantic Fit in Sentence Processing. Proceedings of the Society for Computation in Linguistics (SCiL), pp 330-333.

PRESENTATIONS

Ryu, S. H. and Lewis, R. L. “Transformer Language Models can Integrate Surprisal, Entropy, and Working Memory Retrieval Accounts of Sentence Processing,” Invited talk at MIT Language and Computation Discussion Group, Apr 6th, 2022.

Ryu, S. H. and Lewis, R. L. “Using Transformer Language model to Integrate Surprisal, Entropy, and Working Memory Retrieval Accounts of Sentence Processing,” Plenary talk in the Human Sentence Processing Conference, Mar 25th, 2022.

Ryu, S. H. and Lewis, R. L. “Transformers as integrative psycholinguistic models that combine expectation-based and memory-based accounts,” Invited talk in Cognitive Science Seminar at the University of Michigan, Oct 11th, 2021.

Ryu, S. H. and Lewis, R. L. “Accounting for Agreement Phenomena in Sentence Comprehension with Transformer Language Models: Effects of Similarity-based Interference on Surprisal and Attention,” Oral presentation in the Workshop on Cognitive Modeling and Computational Linguistics, Jun 10th, 2021.

Ryu, S. H., Brickman, A., Hu, J., Jin, R. M., Lee, R., LeHouillier, F. and Elkin, P. L. “Investigation of indeterminacy of temporal information in clinical narratives based on linguistic features of event and time expressions,” Poster presentation in the AMIA Informatics Summit, Mar 26th, 2019.

Ryu, S. H. and Chaves, R. P. “On the Interaction Between Dependency Frequency and Semantic Fit in Sentence Processing”, Oral presentation in the 2nd Annual Meeting of the Society for Computation in Linguistics, Jan 4th, 2019.

Kim, S., Ryu, S. H. and Nam, K. “A visual half-field study for meaning process of Korean ambiguous eojeol,” Oral presentation in the 15th Annual Meeting of the Japanese Society for Cognitive Psychology, Jun 4th, 2017.