

Kohei Kajikawa

Ph.D. student at Georgetown Linguistics 🏠 Washington, D.C., USA

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Research Interests

- 📖 Psycholinguistics; sentence processing, processing efficiency
- 📖 Computational Linguistics; syntactic parsing, information theory, combinatory categorial grammar

Education

- 2025 – 📖 **Ph.D. in Linguistics** Georgetown University
- 📖 **Ph.D. in Linguistics** The Graduate University for Advanced Studies, SOKENDAI
On a leave of absence for studying abroad (August 2025 –)
- 2023 – 2025 📖 **M.A. in Linguistics** The University of Tokyo
Thesis title: *Structure Dependence is Shaped for Efficient Communication*
- 2019 – 2023 📖 **B.A. in Linguistics (minor in Computer Science)** The University of Tokyo
Thesis title: *Incremental Semantic Composition as Psycholinguistically Plausible Strategy*
Additionally completed *Mathematics and Data Science Program*

Research Positions

- August 2025 – 📖 Research Assistant
Georgetown University
- May 2025 – August 2025 📖 Research Assistant
National Institute for Japanese Language and Linguistics
- April 2025 – August 2025 📖 Research Fellow (DC1)
Japan Society for the Promotion of Science (JSPS)
- June 2023 – May 2025 📖 Technical Staff
National Institute for Japanese Language and Linguistics

Publications

Conference Proceedings

- 1 R. Yoshida, S. Isono, K. Kajikawa, T. Someya, Y. Sugimoto, and Y. Oseki, “If attention serves as a cognitive model of human memory retrieval, what is the plausible memory representation?” In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, W. Che, J. Nabende, E. Shutova, and M. T. Pilehvar, Eds., Vienna, Austria: Association for Computational Linguistics, Jul. 2025, pp. 9795–9812, ISBN: 979-8-89176-251-0. 🌐 DOI: [10.18653/v1/2025.acl-long.483](https://doi.org/10.18653/v1/2025.acl-long.483).
- 2 K. Kajikawa, Y. Kubota, and Y. Oseki, “Is structure dependence shaped for efficient communication?: A case study on coordination,” in *Proceedings of the 28th Conference on Computational Natural Language Learning*, L. Barak and M. Alikhani, Eds., Miami, FL, USA: Association for Computational Linguistics, Nov. 2024, pp. 291–302. 🌐 DOI: [10.18653/v1/2024.conll-1.23](https://doi.org/10.18653/v1/2024.conll-1.23).

- 3 K. Kajikawa, R. Yoshida, and Y. Oseki, "Dissociating Syntactic Operations via Composition Count," in *Proceedings of the Annual Meeting of the Cognitive Science Society*, vol. 46, Rotterdam, the Netherlands, Jul. 2024, pp. 297–305. [URL: https://escholarship.org/uc/item/2bp2m26p](https://escholarship.org/uc/item/2bp2m26p).
- 4 S. Isono, T. Hasegawa, K. Kajikawa, K. Kono, S. Nakamura, and Y. Oseki, "Formalizing argument structures with Combinatory Categorical Grammar," in *Logic and Engineering of Natural Language Semantics*, D. Bekki, K. Mineshima, and E. McCready, Eds., Cham: Springer Nature Switzerland, 2023, pp. 83–99, ISBN: 978-3-031-43977-3. [DOI: 10.1007/978-3-031-43977-3_6](https://doi.org/10.1007/978-3-031-43977-3_6).

Conference Presentations

- 2025
- Kohei Kajikawa*, Shinnosuke Isono*, Yushi Sugimoto*, Masayuki Asahara, and Yohei Oseki. Exploring spatial and temporal dynamics of language comprehension in the brain with CCG. The 47th Annual Meeting of the Cognitive Science Society (CogSci), San Francisco, CA, USA. July 31st, 2025. (*=equal contribution) [poster]
 - Ryo Yoshida, Shinnosuke Isono, Kohei Kajikawa, Taiga Someya, Yushi Sugimoto, and Yohei Oseki. If Attention S serves as a cognitive model of human memory retrieval, what is the plausible memory representation?. The 63rd Annual Meeting of the Association for Computational Linguistics (ACL), Vienna, Austria. July 30th, 2025. [poster]
 - Kohei Kajikawa*, Shinnosuke Isono*, Yushi Sugimoto*, Masayuki Asahara, and Yohei Oseki. Modeling Japanese EEG data with CCG. The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025), Nagasaki, Japan. (*=equal contribution) [oral]
 - Kohei Kajikawa, Shinnosuke Isono, Yusuke Kubota, and Yohei Oseki. Free word order and argument omission as an optimization strategy of cognitive load. The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025), Nagasaki, Japan. [poster]
 - Mika Akama, Kohei Kajikawa, and Yohei Oseki. Does syntactic information contribute to brain decoding? The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025), Nagasaki, Japan. [oral]
 - Ryo Yoshida, Shinnosuke Isono, Kohei Kajikawa, Taiga Someya, Yushi Sugimoto, and Yohei Oseki. If Attention can serve as a cognitive model of human memory retrieval, what constitutes a plausible memory representation? The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025), Nagasaki, Japan. [oral]
 - Kai Nakaishi, Ryo Yoshida, Kohei Kajikawa, Koji Fukushima, and Yohei Oseki. Revisiting the relationship between power laws and syntactic structures in natural language. The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025), Nagasaki, Japan. [oral]
- 2024
- Kohei Kajikawa, Yusuke Kubota, and Yohei Oseki. Is Structure Dependence Shaped for Efficient Communication?: A Case Study on Coordination. In *Proceedings of the 28th Conference on Computational Natural Language Learning (CoNLL)*, Miami, FL, USA. November 15th, 2024. [oral]
 - Kohei Kajikawa, Ryo Yoshida, and Yohei Oseki. Dissociating Syntactic Operations via Composition Count. The Annual Meeting of the Cognitive Science Society, Rotterdam, The Netherlands. July 26th, 2024. [oral]
 - Shinnosuke Isono, Kohei Kajikawa, and Yohei Oseki. Modeling memory load with CCG in a large-scale Japanese reading time corpus. The 168th Meeting of the Linguistic Society of Japan, Tokyo, Japan. [oral]
 - Kohei Kajikawa, Yusuke Kubota, and Yohei Oseki. Do syntactic transformations emerge from communication? The 30th Annual Meeting of the Association for Natural Language Processing (NLP2024), Kobe, Japan. [oral]
- 2023
- Kohei Kajikawa. 2023, Nov. Analyzing Japanese Cleft Construction in Combinatory Categorical Grammar. *Logic and Engineering of Natural Language Semantics 20 (LENLS20)*, Osaka, Japan. [oral]

Conference Presentations (continued)

- Kohei Kajikawa, Ryo Yoshida, and Yohei Oseki. Modeling Japanese sentence processing with CCG. The 29th Annual Meeting of the Association for Natural Language Processing (NLP2023), Okinawa, Japan. March 16th, 2023. [oral]
- Kohei Kajikawa*, Shinnosuke Isono*, Ryo Yoshida*, and Yohei Oseki. A language model based on syntactic supervision motivated by Minimalism. The 29th Annual Meeting of the Association for Natural Language Processing (NLP2023), Okinawa, Japan. (*=equal contribution) [oral]
- 2022 ■ Shinnosuke Isono, Takuya Hasegawa, Kohei Kajikawa, Koichi Kono, Shiho Nakamura, and Yohei Oseki. Formalizing argument structures with Combinatory Categorical Grammar. Logic and Engineering of Natural Language Semantics 19 (LENLS19), Tokyo, Japan. November 19th, 2022. [oral]

Talks

- 2025 ■ Is Structure Dependence Shaped for Efficient Communication? A Case Study on Coordination. [NLP colloquium](#), Online. January 1st, 2025. [invited]

Awards and Honors

- June 2025 ■ *Director's Award*
National Institute for Japanese Language and Linguistics
- *Young Researcher Encouragement Award*
National Institute for Japanese Language and Linguistics
- March 2025 ■ *Young Researcher Encouragement Award*
The Association for Natural Language Processing Annual Conference (Japan)
First author
- *Committee Special Award*
The Association for Natural Language Processing Annual Conference (Japan)
Co-first author (equal contribution)
- December 2024 ■ *Best Paper Award*
Conference on Computational Natural Language Learning (CoNLL2024)
First author
- March 2024 ■ *Committee Special Award*
The Association for Natural Language Processing Annual Conference (Japan)
First author

Grants and Fellowships



- 2025 – 2026 ■ *Merit-Based Graduate School Scholarship*
Department of Linguistics, Georgetown University
- 2025 – 2028 ■ *JSPS Doctoral Course Research Fellowship (DC1)*
Japan Society for the Promotion of Science (JSPS)
Declined the fellowship to pursue an opportunity for studying abroad (August 2025).

Teaching Experience

Teaching Assistant

- October 2024 – March 2024 ■ *Introduction to Natural Language Processing*
College of Arts and Sciences, The University of Tokyo.

Teaching Experience (continued)


- April 2024 – September 2024  *Language of Humans and AI*
College of Arts and Sciences, The University of Tokyo.
- April 2023 – September 2023  *Linguistics as Cognitive Science*
College of Arts and Sciences, The University of Tokyo.

Reviewing

- 2025  CoNLL2025

Miscellaneous Work

Non-refereed Article

- 2025  K. Kajikawa. “Exploring New Frontiers in Computational Psycholinguistics: Testing the Efficient Communication Hypothesis” *Natural Language Processing*, Vol. 32, Issue 1, Mar. 2025, pp. 372–378. [invited]

Skills

- Languages  Japanese, English
- Coding  Python, R, Haskell, \LaTeX , ...

References

Available on Request