

Daiki Matsuoka

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Education

2025– **Ph.D.** in Information Science, The University of Tokyo

2023–2025 **M.Sc.** in Information Science, The University of Tokyo

2019–2023 **B.Sc.** in Science, The University of Tokyo

Awards & Grants

2025– Advanced AI Talent Development to Lead the Next-Generation Intelligent Society ([BOOST NAIS](#))

Mar. 2025 Dean's Award for Academic Achievement, The Graduate School of Information Science and Technology (Master's Program)

Mar. 2024 Committee Special Award, The Association for Natural Language Processing Annual Conference (Japan)

Publications

PEER-REVIEWED PROCEEDINGS

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. "A propositions-as-types approach to the generalized crossover effect." *Proceedings of Sinn und Bedeutung* 29 (2025): 986–1003. DOI:[10.18148/sub/2024.v29.1258](https://doi.org/10.18148/sub/2024.v29.1258).

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. "Relative Tense in Japanese: The Case of Multiply Embedded Relative Clauses." *Japanese/Korean Linguistics* 31 (2025): 463–473. DOI:[10.5070/J7.49055](https://doi.org/10.5070/J7.49055).

Mikami, Yosuke, **Daiki Matsuoka**, and Hitomi Yanaka. "Can Large Language Models Robustly Perform Natural Language Inference for Japanese Comparatives?" In *Proceedings of the 16th International Conference on Computational Semantics*, 127–136. 2025. <https://aclanthology.org/2025.iwcs-main.12/>.

Mikami, Yosuke, **Daiki Matsuoka**, and Hitomi Yanaka. "Implementing a Logical Inference System for Japanese Comparatives." In *Proceedings of the 5th Workshop on Natural Logic Meets Machine Learning*, 18–32. 2025. <https://aclanthology.org/2025.naloma-1.3/>.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. "Appositive Projection as Implicit Context Extension in Dependent Type Semantics." In *Logic and Engineering of Natural Language Semantics: 20th International Conference, LENLS20, Osaka, Japan, November 18–20, 2023, Revised Selected Papers*, 224–243. 2024. DOI:[10.1007/978-3-031-60878-0_13](https://doi.org/10.1007/978-3-031-60878-0_13).

Kumon, Ryoma, **Daiki Matsuoka**, and Hitomi Yanaka. “Evaluating Structural Generalization in Neural Machine Translation.” In *Findings of the Association for Computational Linguistics: ACL 2024*, 13220–13239. 2024. DOI:[10.18653/v1/2024.findings-acl.783](https://doi.org/10.18653/v1/2024.findings-acl.783).

Presentations

TALKS

Matsuoka, Daiki and Hitomi Yanaka. “Split and compose: Deriving long-distance dependencies in a continuation-based grammar”. To be presented at *Logic and Engineering of Natural Language Semantics 21 (LENLS21)*, Nagoya University, November 2025.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “A propositions-as-types approach to the generalized crossover effect”. *Sinn und Bedeutung 29 (SuB29)*, Consorzio Universitario Mediterraneo Orientale, September 2024.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “Analyzing Relative Tense in Japanese with Dependent Type Semantics”. *The IWCS2023 Workshop Natural Logic Meets Machine Learning (NALOMA2023)*, Institut des Sciences du Digital, Management et Cognition, June 2023.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “Appositive Projection as Implicit Context Extension in Dependent Type Semantics”. *Logic and Engineering of Natural Language Semantics 20 (LENLS20)*, Osaka University, November 2023.

POSTERS

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “Functional indefinites as conventional implicatures”. *The 56th Annual Meeting of the North East Linguistics Society (NELS56)*, New York University, September 2025.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “Relative Tense in Japanese: A Case of Multiply Embedded Relative Clauses”. *The 31st Japanese/Korean Linguistics Conference (JK31)*, Monash University, November 2024.

OTHERS

Matsuoka, Daiki. “An accommodation-based approach to conventional implicature”. *Semantics Research Group*, Keio University, August 2025.

Matsuoka, Daiki. “Conventional implicatures in Dependent Type Semantics”. A guest lecture at the ESSLI2025 course *Composing Meaning via Dependent Types*, August 2025.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. “A type-theoretical approach to the generalized crossover effects [in Japanese]”. *The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025)*, Nagasaki, Japan, March 2025.

Matsuoka, Daiki, Jie Lu, Junichiro Kobayashi, Yoshifumi Kawasaki, Yohei Oseki, and Hitomi Yanaka. "Probing large language models via bound variable anaphora [in Japanese]". *The 31st Annual Meeting of the Association for Natural Language Processing (NLP2025)*, Nagasaki, Japan, March 2025.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. "Conventional implicature as implicit context extension in Dependent Type Semantics [in Japanese]". *The 30th Annual Meeting of the Association for Natural Language Processing (NLP2024)*, Kobe, Japan, March 2024.

Matsuoka, Daiki. "Analyzing Relative Tense in Japanese with Dependent Type Semantics". The 2023 Tokyo Workshop on Theoretical and Computational Semantics, July 2023.

Matsuoka, Daiki, Daisuke Bekki, and Hitomi Yanaka. "Temporal interpretation of Japanese relative clauses with Dependent Type Semantics [in Japanese]". *The 37th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI2023)*, Kumamoto, Japan, June 2023.

Teaching

TEACHING ASSISTANT

2023-2025 *Exercise in Information Science I* (Spring Semester)
Department of Information Science, School of Science, The University of Tokyo

Languages

Japanese (native), English (fluent), Spanish (elementary)

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