

# Takuto NAKAYAMA

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## Education

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- B.A. in Literature 2020 March at Keio University, Tokyo, Japan
- M.A. in Literature 2022 March at Keio University, Tokyo, Japan
- Ph.D. candidate 2025 February at Keio University, Tokyo, Japan
- Ph.D. in Literature expected 2026 March at Keio University, Tokyo, Japan

## Research Interests

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- Computational Linguistics
- Quantitative Linguistics
- Mathematical Linguistics
- Linguistic Complexity

## Languages

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Japanese (native), English (fluent), German (beginner)

## Skills

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Python, L<sup>A</sup>T<sub>E</sub>X

## Publications

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### Research Articles

- Nakayama, T. (in press.). 言語の複雑さを「測る」ことの正体 – 測度論基盤の目論みと測る対象としての言語 [What “measuring” linguistic complexity is: Measure theoretical foundation and a language as a measurable object]. *Fora*, 8.
- Nakayama, T. (2024). How Skewed is the World for a Language?: A Computational Approach to the Semantic Distribution of Languages, *Kyorin University Journal*, 41, 61 – 72.
- Nakayama, T. (2023). Is a language diachronically equally complex?: An information theory approach to linguistic complexity, *Kyorin University Journal*, 40, 75 – 87.
- Nakayama, T. (2021). How do speakers communicate with different linguistic knowledge?: The internal and external stabilizers of a language, *Colloquia*, 42, 51 – 62.
- Nakayama, T. (2020). Causality and resultantity in language: Language in individuals and groups, *Colloquia*, 41, 83 – 98.

## Proceedings

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## Conference Talks

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- Nakayama, T. (2024, March 11). 言語一般の計測を目指して: サブワードと分散意味論に基づく言語の複雑性計測 [*Toward a linguistically general measurement: Measuring linguistic complexity based on subword tokens and distributional semantics*]. [poster] The 31st Annual Conference of the Association for Natural Language Processing, Nagasaki, Japan.
- Nakayama, T. (2024, February 28). 言語は等しく多義的か? –サブワードと分散意味論に基づく形式–意味対応の分析 [*Are languages equally polysemous?: An analysis of form-meaning pairing based on subword and distributional semantics*]. [oral presentation] The 49th Annual Conference of the Japanese Association of Sociolinguistic Sciences, Tokyo, Japan.
- Nakayama, T. (2024 September, 10). *Linguistic complexity through form-meaning pairings: An information theoretical approach to equi-complexity of language* [oral presentation]. The 21st International Congress of Linguists, Poznań, Poland.
- Nakayama, T. (2024, March). 言語は等しく複雑か?: 多義語埋め込み表現による形式–意味対応の複雑性 [*Is languages equally complex?: Complexity of form-meaning pairings through polysemous word embeddings*]. [poster] The 30th Annual Conference of the Association for Natural Language Processing, Kobe, Japan.
- Nakayama, T. (2023 August 8). *The equi-complexity vs. typology: Measurement of overall linguistic complexity and typological categories* [poster]. International Cognitive Linguistics Conference 16, Düsseldorf, Germany.
- Nakayama, T. (2023 June 29). *Are all languages equally complex?: Information theory-based method to measure the overall complexity of a language* [poster]. Quantitative Linguistics Conference 2023, Lausanne, Switzerland.
- Nakayama, T. (2022 July 16). *Convergence and divergence in language: How do mutual understandings among speakers emerge from iterated interactions?* [panel discussion]. Sociolinguistics Symposium 24, Ghent, Belgium.
- Nakayama, T. (2021, June 28). *A convergence of language between child and mother: Semantic Analysis based on FCA* [panel discussion]. 17th International Pragmatics Association, Winterthur, Switzerland.

## Work Experience

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|---------------------------|--------------------------------------|--|
| • April 2024 – March 2026 | research fellow                      | Japan Society for the Promotion of Science |
| • April 2024 –            | English (part-time lecturer)         | Kyoritsu Women's University, Tokyo         |
| • April 2024 –            | TOEFL English (part-time lecturer)   | Kyoritsu Women's University, Tokyo         |
| • April 2023 – March 2024 | editor-in-chief                      | <i>Colloquia</i>                           |
| • April 2022 –            | English (part-time lecturer)         | Kyorin University, Tokyo                   |
| • April 2022 –            | Medical English (part-time lecturer) | Kyorin University, Tokyo                   |

## **Grants**

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- 2024 – 2026    Research Fellow (DC2), Japan Society for the Promotion of Science
- 2022 – 2024    Support for Pioneering Research Initiated by the Next Generation, Japan Science and Technology Agency

## **Memberships**

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- 2024 –    The Association for Natural Language Processing
- 2023 –    International Quantitative Linguistics Association
- 2022 –    Japan Association of Sociolinguistic Science