

# Keita Nakamura

*Curriculum Vitae*

## General Information

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- **Affiliation:** Tokyo University of Science, Department of Information Sciences
- **Languages:** Japanese (Native), English

## Education

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### Ph.D. Student in Information Sciences

2024 –

#### Tokyo University of Science

Graduate School of Science and Technology, Department of Information Sciences

*(Japanese: Graduate School of Transdisciplinary Science and Engineering, Department of Information and Computational Sciences)*

- Started in April 2024
- Member of Tahata Laboratory
- Research focus on contingency table analysis and compositional data analysis

### Research Student

2023 – 2024

#### Yokohama City University

Graduate School of Medicine, Department of Medicine

- June 2023 to March 2024
- Research in medical statistics and biostatistics

### Master of Science

2023

#### Tokyo University of Science

Graduate School of Science and Technology, Department of Information Sciences

- Graduated in March 2023
- Research on contingency table analysis using simplicial geometry

### Bachelor of Science

2021

#### Tokyo University of Science

Faculty of Science and Technology, Department of Information Sciences

- Graduated in March 2021

## Research Interests

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### Contingency Table Analysis

- Symmetry models for square contingency tables
- Quasi-symmetry and marginal homogeneity
- Simplicial geometry approaches

### Compositional Data Analysis

- Application of information geometry
- Statistical modeling for compositional data

## Publications

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2025

### Quasi-Symmetry and Geometric Marginal Homogeneity: A Simplicial Approach to Square Contingency Tables

*Information Geometry*

- Authors: Nakamura, K., Nakagawa, T., & Tahata, K.
- DOI: [10.1007/s41884-025-00176-1](https://doi.org/10.1007/s41884-025-00176-1)

2024

### Symmetry of Square Contingency Tables Using Simplicial Geometry

*Austrian Journal of Statistics*, 53(4), 85-98

- Authors: Nakamura, K., Nakagawa, T., & Tahata, K.
- DOI: [10.17713/ajs.v53i4.1845](https://doi.org/10.17713/ajs.v53i4.1845)

## Honors and Awards

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- **2024** –: SPRING Program Fellow, JST Support for Pioneering Research Initiated by the Next Generation
- **2024**: Best Presentation Award, Japanese Society of Applied Statistics