

Keita Nakamura

Curriculum Vitae

General Information

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

Education

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

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

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

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