



SHO SAKAI

Ph.D. Student / High-Dimensional Statistical Analysis

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ABOUT ME

I am a Ph.D. student at the University of Tsukuba, focusing on high-dimensional statistical analysis. My research extends from theoretical methods to real-world data applications, with an emphasis on bridging academic findings and practical implementations. Beyond research, I have experience organizing study groups and seminars, as well as producing the “Data Science LG” podcast to foster a community for statistics and data science enthusiasts.

EDUCATION

2025 - University of Tsukuba	Ph.D. in Mathematics Researching high-dimensional statistical analysis and decision-making processes Aoshima Laboratory
2023 - 2025 University of Tsukuba	M.Sc. in Mathematics Researching high-dimensional statistical analysis and decision-making processes Aoshima Laboratory
2019 - 2023 Kagoshima University	B.Sc. in Mathematics and Informatics Learning Mathematics and Informatics Yoshida Laboratory (2022 – 2023)

EXPERIENCE

2023 - 2024 University of Tsukuba	Research Assistant <ul style="list-style-type: none">• Conducted high-dimensional data analyses using R/Python• Managed GitHub repositories for collaborative code development
2023 - 2025 University of Tsukuba	Teaching Assistant <ul style="list-style-type: none">• Assisted courses in Statistical Exercises, Computer Exercises, Computer Mathematics, and Linear Algebra
2024 – Nospare Inc.	Intern <ul style="list-style-type: none">• Planned and hosted seminars on statistics and data science• Collaborated with cross-functional teams to create educational content
2024 – Nospare Student Community	Community & Podcast Organizer <ul style="list-style-type: none">• Organized student study groups and data science meetups• Produced the “Data Science LG” podcast for knowledge-sharing in statistics, ML, and career development

SKILLS

- Programming: R, Python, C
- Data Analysis: Statistical modeling, Machine learning
- Tools: GitHub, VS Code, Jupyter, LaTeX
- Languages: Japanese (native), English (TOEIC 735)

REFERENCES

Aoshima Lab, University of Tsukuba

HP: <https://www.math.tsukuba.ac.jp/~aoshima-lab/index.html>