# SHO SAKAI

Ph.D. Student / High-Dimensional Statistical Analysis

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🌐 https://shoshohh.github.io/    🌐 https://www.linkedin.com/in/ssakai0403/

## 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 Mathematincs and Informatics
Yoshida Laboratory (2022 – 2023)

## EXPERIENCE

**2025 – 2028**
JST BOOST initiative, University of Tsukuba

**Next-Generation AI Human Resource Development Program Fellow**
Selected for the Next-Generation AI Human Resource Development Program for doctoral students. This program provides financial support for living expenses and research activities, enabling ambitious research in strategically important fields. With this support, I will continue my research on theoretical and applied methods in high-dimensional statistics, and further develop collaborations with fields such as bioinformatics, materials science, and astronomy.

**2024 –**
Nospare Student Community

**Community & Podcast Organizer**
· Organized student study groups and data science meetups
· Produced the "Data Science LG" podcast for knowledge-sharing in statistics, ML, and career development

**2024 –**
Nospare Inc.

**Intern**
· Planned and hosted seminars on statistics and data science
· Collaborated with cross-functional teams to create educational content

**2023 - 2024**
University of Tsukuba

**Research Assistant**
· Conducted high-dimensional data analyses using R/Python
· Managed GitHub repositories for collaborative code development

**2023 - 2025**
University of Tsukuba

**Teaching Assistant**
· Assisted courses in Statistical Exercises, Computer Exercises, Computer Mathematics, and Linear Algebra

## 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