Hirofumi Shiba

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Last Update: 8/20/2025

Education

🎓 **Ph.D. in Statistical Science**. *Graduate University for Advanced Studies, SOKENDAI, Tokyo, Japan*. 2023.4 – 2028.3
Superivsor: Kengo Kamatani

🎓 **B.A. in Mathematics**. *The University of Tokyo, Japan*. 2019.4 – 2023.3
Supervisor: Nakahiro Yoshida

Research Interests

Computational Statistics & Machine Learning. Especially, Markov Chain Monte Carlo, Piecewise Deterministic Markov Process, Denoising Diffusion Models, Stochastic Gradient Descent, Evolution Strategies, and Bayesian Learning.

Experience

💼 **Research Fellow**. *Graduate University for Advanced Studies, SOKENDAI, Tokyo, Japan*. 2025.4 – 2028.3
Supported by JST BOOST, Japan Grant Number JPMJBS2412.

💼 **Data Scientist**. *PreMedica, Inc., Tokyo, Japan*. 2024.9 – today
Provided Bayesian data analysis solutions to healthcare applications.

💼 **Research Assistant**. *The Institute of Statistical Mathematics, Tokyo, Japan*. 2023.7 – 2026.3
Contributed to the R package YUIMA, an open-source project aiming to simulate and infer multidimensional stochastic differential equations, with an emphasis on Bayesian inference.

Research Visit

🏛 Department of Statistical Science, **University College London**, United Kingdom. 2024.11.4 – 2024.12.2
Supervisor: Alexandros Beskos

🏛 Department of Statistics & Data Science, **National University of Singapore**. 2025.6.1 – 2025.6.30
Supervisor: Alexandre Thiéry

🏛 Institute of Stochastics, **Ulm University**, Germany. 2025.7.13 – 2025.7.26
Supervisor: Evgeny Spodarev

Grants & Awards

🏅 **Research Fellow**. *Graduate University for Advanced Studies, SOKENDAI, Tokyo, Japan*. 2025.4 – today
Supported by JST BOOST, Japan Grant Number JPMJBS2412: *A Radical Approach to Trustworthy AI in the Coming Era*. ¥ 11,700,000.

- **Best Poster Award**, 19th Spring Meeting of the Japan Statistical Society.   2025.3.8
- **Director's Award** from the Japan Statistical Society Certificate.   2025.3.8