Hirofumi Shiba

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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