

# Hirofumi Shiba

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## Education

-  **Ph.D. in Statistical Science.** *Graduate University for Advanced Studies, SOKENDAI, Tokyo, Japan.* 2023.4 – 2028.3  
Supervisor: [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