# Hirofumi Shiba

↑ https://162348.github.io/

shiba.hirofumi@ism.ac.jp

Last Update: 8/28/2024

### **Profile and Skills**

Hirofumi is currently a Ph.D. candidate at the Institute of Statistical Mathematics, working under the supervision of Prof. Kengo Kamatani and Keisuke Yano.

He holds Japanese citizenship and is a native speaker of Japanese and Chinese. Additionally, He is fluent in English. Hirofumi codes in Julia, Python, and R.

#### Research Interests

- Monte Carlo methods, including Sequential Monte Carlo and Markov Chain Monte Carlo.
- ▼ Transport methods, including Schrödinger Bridges and Normalizing Flows.
- Bayesian modeling, including Political Science and Bioinformatics.
- Bayesian machine learning, including Gaussian processes and hierarchical modeling.

# **Work Experience**

**Research Assistant**. The Institute of Statistical Mathematics, Tokyo, Japan.

2023.7 - today

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.

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2023.4 – today

Research on trustworthy AI and machine learning from the viewpoint of economic security.

**m** Data Scientist. IMIS Co., Ltd.

2022.8 - 2024.1

Provided statistical analysis and machine learning solutions for clients in the manufacturing industry.

## **Education**

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

🞓 B.A. in Mathematics. The University of Tokyo, Japan.

2019.4 - 2023.3

Supervisor: Nakahiro Yoshida