Hirofumi Shiba

↑ https://162348.github.io/
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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.

© Cooperative Researcher. RCAST, the University of Tokyo, Japan.

2023.4 – today

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

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

Research Stay

<u> university College London</u>, United Kingdom.

2024.11.4 - 2024.12.2

Supervisor: Alexandros Beskos