Sherman Khoo

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Education

University of Bristol 2023 – 2027 (expected)
PhD in Computational Statistics and Data Science *Bristol, UK*

- Research in simulation-based inference and generative models; funded by an EPSRC Compass studentship

University of Warwick 2021 – 2022
MSc in Statistics, with Distinction *Coventry, UK*

London School of Economics and Political Science 2018 – 2021
BSc in Mathematics and Economics, First Class Honours *London, UK*

- Research in applied econometrics on housing and immigration, published as two co-authored papers

Selected Publications

** Equal contribution. Full list at khoo.dev/publications*

Local Manifold Identification with Latent Linear Models and OT Flows *NeurIPS 2026*
Khoo, S.*, Liu, S.* & Beaumont, M. *ICML 2026 workshop spotlight*

Minimum Distance Summaries for Robust Neural Posterior Estimation *ICML 2026*
Khoo, S., Prangle, D., Liu, S. & Beaumont, M.

Direct Fisher Score Estimation for Likelihood Maximization *NeurIPS 2025, Spotlight (top 3%)*
Khoo, S., Wang, Y., Liu, S. & Beaumont, M.

Generalized Bayesian Likelihood-Free Inference *Electronic Journal of Statistics 2024*
Pacchiardi, L., **Khoo, S.** & Dutta, R.

Experience

University of Warwick, Department of Statistics Oct 2022 – Sep 2023
Tutor *Coventry, UK*

- Tutored master's-level statistics and researched likelihood-free inference with Dr. Ritabrata Dutta (two papers)

Xyndicate Nov 2021 – Jan 2022
Data Scientist (part-time) *Remote*

- Fine-tuned language models for sentiment analysis (PyTorch, Hugging Face) and deployed them on AWS

Global Research and Consulting Group, LSE 2019 – 2021
Director of Operations *London, UK*

- Grew society applications by 300% and negotiated non-profit consulting partnerships (e.g. Junior Achievement)

Anywhr Jun 2018 – Oct 2018
Data Intern *Singapore*

- Built an NLP classifier to auto-tag customer feedback, and Python scrapers for supplier pricing data

Awards & Service

Best Poster Award, BayesComp 2025, National University of Singapore 2025
PhD Studentship, EPSRC Compass Centre for Doctoral Training 2023
Reviewer for NeurIPS and the *Journal of the American Statistical Association* (JASA) 2026

Skills

Machine learning: Deep learning, generative models (diffusion, flow matching, normalising flows)
Statistics: Bayesian inference, MCMC, optimal transport, uncertainty quantification, causal inference, time series
Software: Python (PyTorch, JAX, NumPy, SciPy, scikit-learn), R, SQL, Rust, Git, Docker, AWS
LLMs & AI tooling: LLM fine-tuning (Transformers), NLP, RAG, AI coding agents
Languages: English, Mandarin