

Yakun Wang

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Objective

I aim to build statistically rigorous and computationally feasible sampling methodologies for tomorrow's reliable machine learning systems. To this end, I am committed to reconciling the intractable posterior with accurate and fast Bayesian learning via approximate inference techniques.

Education

2023 – 2027 **University of Bristol**, Bristol, United Kingdom

PhD in Mathematics *Statistical Machine Learning*

- Optimisation and its application in sampling and beyond
- Diffusion/Flow-based model
- Optimal transport

Supervisor: Dr [Song Liu](#)

2021 – 2022 **University of Southampton**, Southampton, United Kingdom

MSc in Statistics GPA: 81.75, Distinction, Dean's List Award


- Statistical Computing, 91, top 1%
- Machine Learning, 87, top 5%
- Design of Experiment, 84, top 1%

2017 – 2021 **Liaoning University**, Shenyang, China


BSc in Mathematics & Applied Mathematics GPA: 82, Upper Second Class

- Functional Analysis, 100, top 1%
- Topology, 95, top 1%
- Differential Geometry, 95, top 1%
- Stochastic Process, 92, top 1%
- Numerical Analysis, 91, top 1%
- Mathematical Statistics, 87, top 5%

Publications

Neurips 2024  Lightspeed Black-box Bayesian Optimization via Local Score Matching
- Workshop on Bayesian Decision-making and Uncertainty

Academic Researches

MSc Thesis  *Probabilistic Numerical Method for Fredholm Integral Equation of the First Kind*
- with Dean's List Award Supervisor: Dr [Jon Cockayne](#)

Highlight Explore an emerging area of research - probabilistic numerics
Learn about Reproducing Kernel Hilbert Space and Gaussian Process
Discuss about uncertainty quantification

BSc Thesis *Application of Principal Component Analysis in Judging Influencing Factors of House Prices in Shenyang*

Supervisor: Professor JiuJun Zhang

Highlight Learn about high-dimensional Statistics
Learn about the importance of dimensionality reduction

Awards

Nov 2019 11th Chinese Mathematics Competitions of Chinese College Students - Third prize
2019 – 2021 Liaoning University Scholarship

Services

2019 – Now **Lecturer** Alumnimax Team, Department of mathematics, Liaoning University
- Provide lectures for students who had poor understanding on notions learned on the class
- Operate the online media platform to attract potential math-interested students

2021 – Now **Member** Google Developer Student Club, University of Southampton
- Introduce Machine Learning to interested students with Google TensorFlow Workshops

Skills

Programming Python (Numpy, Pandas), R, SPSS, STATA

Typesetting Office, \LaTeX

Language Chinese (native), and English (fluent)