

Su Yan

Hong Kong University of Science and Technology
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Education

PhD Student in Mathematics, Probability and Statistics Track Sept. 2024–Present
Hong Kong University of Science and Technology

- Supervisor: Prof. Dong Xia
- GPA: 4.3/4.3

Bachelor of Statistics Sept. 2020–July. 2024
University of Science and Technology of China

- GPA: 3.95/4.3
- Rank: 3/84

Research Experience

• **Doctoral Research** Dec. 2024–Present
Advisor: Prof. Dong Xia

- Studying optimal transport and gradient flow theory.
- Investigating convergence properties of mini-batch flow matching.

• **Variational Inference via Wasserstein Gradient Flow** July. 2023–Aug. 2023
Advisors: Dr. Hanze Dong, Prof. Tong Zhang

- Replicated Wasserstein gradient flow methods from recent literature
- Conducted comparative analysis of convergence properties in multimodal posterior distributions
- Identified optimization challenges in Gaussian Mixture models

• **Bayesian Subgroup Analysis** July. 2022–Apr. 2023
Advisor: Prof. Weiping Zhang

- Adapted T-LoHo framework for subgroup analysis, addressing computational challenges
- Developed variational inference approach for posterior approximation

Teaching Experience

- Teaching Assistant, Department of Mathematics, HKUST Mar. 2025–Present
 - Regression Analysis, MATH 3424 Spring. 2025

Honors & Awards

- Hong Kong PhD Fellowship 2024–Present
- Outstanding Graduate Student, USTC 2024
- Outstanding Student Scholarship. Silver Prize, USTC 2023
- China National Scholarship 2021, 2022
- Outstanding Freshman Scholarship, USTC 2020

Skills

- **Programming:** R, Python, L^AT_EX
- **Languages:** Chinese (Native), English