Tao Ma

CONTACT INFORMATION	$\begin{array}{c} \bigstar \hspace{0.2cm} \underline{\text{xiaobaobaochifan.github.io}} \\ \underline{\hspace{0.2cm} \underline{\text{t.ma9@lse.ac.uk}}} \end{array} \hspace{0.2cm} \underline{\begin{array}{c} \text{in} \\ \underline{\text{linkedin.com/in/tao-ma-93642013a}} \\ \underline{\hspace{0.2cm} \underline{\text{github.com/xiaobaobaochifan}} \end{array}}$			
Education	London School of Economics and Political Science (LSE) Ph.D. Candidate in Statistics (Data Science Group) Sep 202	1 – Aug 2025 London		
	New York University (NYU) Courant Institute Sep 201 Master of Science in Mathematics GPA 3.81/4.00 (Top 5) Passed the Ph.D. Written Qualification Exam	6 – Aug 2018 New York		
	Hong Kong Baptist University (HKBU) Sep 201 Bachelor of Science in Statistics and Operations Research (Science Elite Program) GPA 3.87/4.00 (Rank 1/61 in the Math Department)	2 – Aug 2016 Hong Kong		
RELEVANT COURSEWORK	Reinforcement Learning, Game Theory, Stochastic Analysis, Survival Analysis, Nonparametric Statistics, Time Series, Categorical Data, Numerical Methods, Linear Programming, Topology, Differential Equations, Real/Complex/Functional Analysis, Information Theory, Mathematical Foundations of Computing, Natural Language Processing with Deep Learning			
Publications and Ma, T., Yang, X., & Szabó, Z. (2024). To Switch or not to Switch? Balanced Police Preprints Offline Reinforcement Learning. arXiv preprint arXiv:2407.01837.				
	Ma, T., & Yang, X. (2024). A Framework for Policy Evaluation Enhancement by Diffusion Models. Tiny Papers ICLR. (Invite to present)			
	Ma, T., Zhu, J., Cai, H., Qi, Z., Chen, Y., Shi, C., & Laber, E. B. (2023+). Sequenter for Variable Selection in Reinforcement Learning. arXiv preprint arXiv:2303.14281			
SELECTED ACHIEVEMENTS	 LSE Class Teacher Award LSE PhD Studentship (the highest honor for graduate students) Best Teaching Assistant Award (HKUST) HKSAR Government Scholarship (the highest honor for undergraduates in HK) Outstanding Student Award (7/4134, by The Baptist Convention of HK) Scholastic Award APEC Scholarship (by Asia Pacific Economic Cooperation) Best Debater prize at The World Mandarin Debating Championship, HK Summer Undergraduate Research Fellowship Mr. Li Men Jan Prize in Mathematics 	2022 - 2023 $2021 - 2025$ $2019 - 2020$ $2013 - 2016$ $2015 - 2016$ $2014 - 2016$ $2014 - 2016$ $2014 - 2015$ $2014 - 2015$		
	• Department of Mathematics Outstanding Academic Performance Award	2013 - 2014		

SKILLS Python, R, SAS, MATLAB, LATEX, HTML, CSS, JavaScript, Bash, PyTorch, Jupyter Notebook, VS Code, Linux, Git, Google Cloud Platform, local high-performance computing management

2013 - 2014

2012 - 2016

• Sir Tseng Chi Lu Scholarship

• President's Honour Roll

ACADEMIC SERVICE	LSE Statistics Research Showcase Session Chair	Apr 2025
	Neural Information Processing Systems (NeurIPS) Reviewer (main track submissions)	Jun 2025 – Sep 2025
	International Conference on Machine Learning (ICML) Reviewer (main track submissions)	Feb 2025 – May 2025
	International Conference on AI and Statistics (AISTATS) Reviewer (main track submissions)	Sep 2024 – Jan 2025
	International Conference on Learning Representations (ICLR) Reviewer (main track submissions)	Sep 2024 – Jan 2025
	Neural Information Processing Systems (NeurIPS) Reviewer (main track submissions)	Jun 2024 – Sep 2024
	London School of Economics and Political Science Committee member	London
	• Department Review Representative	2024
	• Department Teaching Committee	2023 - Present
	• Department Moving Plan Committee	2023 – Present

ACADEMIC EXPERIENCE

London School of Economics and Political Science Class Teacher

Introductory statistics for students in social science

Sep 2021 – Present

London

• Undergraduate courses:

♦ ST101 Programming for Data Science (Python) Sep 2022 – Dec 2024 Numpy, Pandas, testing, object-oriented programming, functional programming

ST107 Quantitative Methods

Jan 2022 – May 2022

♦ ST102/109/110 Elementary Statistical Theory Sep 2022 – May 2025 One-year rigorous course in probability and statistics

• Graduate courses:

♦ ST445 Managing & Visualizing Data (Python) Sep 2021 – Dec 2021 Pandas, BeautifulSoup, Sklearn, Jupyter Notebook

Hong Kong University of Science and Technology (HKUST)

Research Assistant

Oct 2018 – Nov 2019

Hong Kong

• Mathematical physics, partial differential equations and signal processing of robots.

Class teacher Hong Kong

• MATH 2011 Introduction to Multivariable Calculus

New York University

Sep 2017 – Dec 2017

Recitation Leader New York

• MATH-UA 211 Mathematics for Economics: calculus with economic theory.

INDUSTRIAL EXPERIENCE

Bank of China
Internship – Corporate Banking and Financial Institute

Dec 2014 – Jan 2015 Hong Kong

OTHER
PROFESSIONAL
EXPERIENCE

University Mandarin Debate Team

Sep 2012 – Aug 2016

President, coach

Hong Kong

• Organized weekly training sessions, managed administrative tasks, participated in international competitions and gave 3-round interviews to around 100 applicants each year.

Professional Swimming

2004 - 2009

Individual Medley (200 meters), Breaststroke (100 meters), Butterfly Stroke (100 meters) Beijing

LANGUAGES Mandarin (native), English (fluent), Cantonese (fluent)

Interests Basketball, calligraphy and music

GAMES Poker, Mahjong, Pokémon, Mario, Kirby, Dragon Ball, NBA 2K, Asphalt, FIFA, Horizon 4, Zelda,

GTA 5 and a lot of others $\,$