Tao Ma

CONTACT INFORMATION	lse.ac.uk/statistics/people/tao-ma t.ma9@lse.ac.uk t.ma9@lse.ac.uk t.ma9@lse.ac.uk t.ma9@lse.ac.uk t.ma9@lse.ac.uk			
EDUCATION	London School of Economics and Political Science Ph.D. Candidate in Statistics (Data Science Group)	2021 – Jan 2026 London		
	New York University Courant Institute Sep Master of Science in Mathematics GPA 3.81/4.00 (Top 5) Passed the Ph.D. Written Qualification Exam	2016 – Aug 2018 New York		
	Hong Kong Baptist University Bachelor of Science in Statistics and Operations Research (Science Elite Program) GPA 3.87/4.00 (Rank 1/61 in the Math Department)	2012 – 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 Preprints	o Ma, T., Yang, X., & Szabó, Z. (2024). To Switch or not to Switch? Balanced Policy Switching in 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+). Sequential Knockoffs for Variable Selection in Reinforcement Learning. arXiv preprint arXiv:2303.14281. (SEEK)			
SELECTED ACHIEVEMENTS	• LSE Class Teacher Award	2022 - 2023		
	• LSE PhD Studentship (the highest honor for graduate students)	2021 - 2025		
	• Best Teaching Assistant Award (HKUST)	2019 - 2020		
	• HKSAR Government Scholarship (the highest honor for undergraduates in E	K) 2013 – 2016		
	\bullet Outstanding Student Award (7/4134, by The Baptist Convention of HK)	2015 - 2016		
	• Scholastic Award	2015 - 2016		
	• APEC Scholarship (by Asia Pacific Economic Cooperation)	2014 - 2016		
	\bullet Best Debater prize at The World Mandarin Debating Championship, HK	2015 - 2016		
	• Summer Undergraduate Research Fellowship	2014 - 2015		
	• Mr. Li Men Jan Prize in Mathematics	2014 - 2015		
	• Department of Mathematics Outstanding Academic Performance Award	2013 - 2014		
	• Sir Tseng Chi Lu Scholarship	2013 - 2014		
	• President's Honour Roll	2012 - 2016		

 ${\rm Skills}$

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

Academic Service	E 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	Sep 2021 – Present London		
	• Undergraduate courses:			
	 ST101 Programming for Data Science (Python) Numpy, Pandas, testing, object-oriented programming, functional programming 	Sep 2022 – Present nal programming		
	 ST107 Quantitative Methods Introductory statistics for students in social science 	Jan 2022 – May 2022		
	♦ ST102/109/110 Elementary Statistical Theory One-year rigorous course in probability and statistics	Sep 2022 – Present		
	• Graduate courses:			
	 ST445 Managing & Visualizing Data (Python) Pandas, BeautifulSoup, Sklearn, Jupyter Notebook 	Sep 2021 – Dec 2021		
	Hong Kong University of Science and Technology Research Assistant	Oct 2018 – Nov 2019 Hong Kong		
	• Mathematical physics, partial differential equations and signal processing of robots.			
	New York University Recitation Leader	Sep 2017 – Dec 2017 New York		
	\bullet MATH-UA 211 Mathematics for Economics: calculus with economic theory.			
Industrial	Bank of China	Dec 2014 – Jan 2015		
EXPERIENCE	Internship – Corporate Banking and Financial Institute	Hong Kong		
OTHER	University Mandarin Debate Team	Sep 2012 – Aug 2016		
Professional Experience	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 Individual Medley (200 meters), Breaststroke (100 meters), Butterfly Strok	2004 - 2009		
Languages	Mandarin (native), English (fluent), Cantonese (fluent)			

GAMES Poker, Mahjong, Pokémon, Mario, Kirby, Dragon Ball, NBA 2K, Asphalt, FIFA, Horizon 4, Zelda, GTA 5 and a lot of others

Basketball, calligraphy and music

Interests