








Tao Ma

CONTACT INFORMATION	 lse.ac.uk/statistics/people/tao-ma  t.ma9@lse.ac.uk	 linkedin.com/in/tao-ma-93642013a  xiaobaobaochifan.github.io
EDUCATION	London School of Economics and Political Science Ph.D. Candidate in Statistics (Data Science Group)	Sep 2021 – Jan 2026 London
	New York University Courant Institute Master of Science in Mathematics GPA 3.81/4.00 (Top 5) Passed the Ph.D. Written Qualification Exam	Sep 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)	Sep 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	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	<ul style="list-style-type: none">• 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• Department of Mathematics Outstanding Academic Performance Award• Sir Tseng Chi Lu Scholarship• President's Honour Roll	<ul style="list-style-type: none">2022 – 20232021 – 20252019 – 20202013 – 20162015 – 20162015 – 20162014 – 20162015 – 20162014 – 20152014 – 20152013 – 20142013 – 20142012 – 2016
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	International Conference on Learning Representations (ICLR) <i>Reviewer (main track submissions)</i>	Sep 2024 – Jan 2025
	Neural Information Processing Systems (NeurIPS) <i>Reviewer (main track submissions)</i>	Jun 2024 – Sep 2024
	London School of Economics and Political Science <i>Committee member</i>	London 2024
ACADEMIC EXPERIENCE	<ul style="list-style-type: none"> • Department Review Representative • Department Teaching Committee • Department Moving Plan Committee 	2023 – Present 2023 – Present
	London School of Economics and Political Science Class Teacher	Sep 2021 – Present London
	<ul style="list-style-type: none"> • Undergraduate courses: <ul style="list-style-type: none"> ◇ ST101 Programming for Data Science (Python) Numpy, Pandas, testing, object-oriented programming, functional programming ◇ ST107 Quantitative Methods Introductory statistics for students in social science ◇ ST102/109/110 Elementary Statistical Theory One-year rigorous course in probability and statistics 	Sep 2022 – Present Jan 2022 – May 2022 Sep 2022 – Present
	<ul style="list-style-type: none"> • Graduate courses: <ul style="list-style-type: none"> ◇ 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
	<ul style="list-style-type: none"> • Mathematical physics, partial differential equations and signal processing of robots. 	
	New York University Recitation Leader	Sep 2017 – Dec 2017 New York
	<ul style="list-style-type: none"> • MATH-UA 211 Mathematics for Economics: calculus with economic theory. 	
	Bank of china Internship – Corporate Banking and Financial Institute	Dec 2014 – Jan 2015 Hong Kong
	University Mandarin Debate Team President, coach	Sep 2012 – Aug 2016 Hong Kong
OTHER PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"> • 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 Stroke (100 meters)	2004 – 2009 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	