

Yifan Jiang

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EDUCATION	University of Oxford, Oxford, United Kingdom	Sep 2021 – Present
	<ul style="list-style-type: none">▪ DPhil student in Mathematics of Random Systems▪ Under the supervision of Prof. Jan Obłój and Prof. Gui-Qiang Chen	
	Fudan University, Shanghai, China	Sep 2016 – Jul 2020
	<ul style="list-style-type: none">▪ BSc in Mathematics and Applied Mathematics	
	The University of Texas at Austin, Austin, United States of America	Aug 2018 – Dec 2018
	<ul style="list-style-type: none">▪ Study abroad in Mathematics	
RESEARCH INTERESTS	<ul style="list-style-type: none">▪ Stochastic control, optimal transport, mathematical finance▪ Fluid dynamics, scalar conservation laws, mean-field systems▪ Chaos, entropy, ergodicity	
PUBLICATIONS	<ul style="list-style-type: none">[1] Convergence of the Deep BSDE method for FBSDEs with non-Lipschitz coefficients with J. Li, <i>Probability, Uncertainty and Quantitative Risk</i>, 2021, vol. 6(4), 391-408.[2] Existence and distributional chaos of points that are recurrent but not Banach recurrent with X. Tian, <i>Journal of Dynamics and Differential Equations</i>, 2022.[3] Empirical approximation to invariant measures for McKean–Vlasov processes: mean-field interaction vs self-interaction with K. Du and J. Li, <i>Bernoulli</i>, 2023, vol. 29(3), 2492-2518.[4] Wasserstein distributional robustness of neural networks with X. Bai, G. He and J. Obłój, <i>In Advances in Neural Information Processing Systems</i>, 2023.	
PREPRINTS	<ul style="list-style-type: none">[5] Sequential propagation of chaos with K. Du and X. Li, 2023.	
AWARDS & HONORS	▪ Finalists of Alibaba Global Mathematics Competition (10th out of 50k+)	Jun 2022
	▪ Oxford-Radcliffe Graduate Scholarship (4-year full scholarship)	May 2021
	▪ Putnam Mathematical Competition top 3%	Dec 2018
	▪ Samsung Scholarship at Fudan University (the first prize)	Oct 2017
RESEARCH EXPERIENCE	Research Assistant , Fudan University	Aug 2020 – Aug 2021
	<ul style="list-style-type: none">▪ Under the supervision of Prof. Shanjian Tang and Dr. Kai Du▪ Stochastic control, forward-backward SDEs, neural networks	
	Undergraduate Researcher , Fudan University	Mar 2019 – Mar 2020
	<ul style="list-style-type: none">▪ Under the supervision of Prof. Xueting Tian▪ Topological dynamical systems, chaos, ergodic measures	

TEACHING EXPERIENCE	Teaching Assistant , University of Oxford	
	<ul style="list-style-type: none"> ▪ B8.1 Probability, Measure, and Martingales ▪ MCF Advanced Numerical Methods 	Michaelmas Term 2022 Hilary Term 2022
	Tutor , University of Oxford	
	<ul style="list-style-type: none"> ▪ C4.9 Optimal Transport and Partial Differential Equations ▪ B8.3 Mathematical Models of Financial Derivatives 	Michaelmas Term 2023 Hilary Term 2023
SELECTED TALKS	<ul style="list-style-type: none"> ▪ London–Oxford–Warwick Mathematical Finance Workshop Oxford, United Kingdom <i>Sensitivity of robust optimization over an adapted Wasserstein ambiguity set</i> ▪ CIRM: Advances in Stochastic Analysis for Handling Risks in Finance and Insurance Marseille, France <i>Causal distributionally robust optimization – sensitivity and duality</i> 	Sep 2022 Sep 2023
ATTENDED WORKSHOPS	<ul style="list-style-type: none"> ▪ Clay Research Conference and Workshops Oxford, United Kingdom ▪ Junior Researcher in Stochastic Optimal Control (Co-organizer) Berlin, Germany ▪ Oxford–ETH Workshop on Mathematical & Computational Finance Oxford, United Kingdom ▪ Workshop on Model-free Mathematical Finance London, United Kingdom ▪ Conference in Mathematics of Random Systems 2023 Edinburgh, United Kingdom ▪ Oxbridge PDE Conference Cambridge, United Kingdom ▪ Oxford–Princeton Workshop on Stochastic Analysis and Mathematical Finance Oxford, United Kingdom ▪ Mathematics of Random Systems Summer School Oxford, United Kingdom ▪ Durham Symposium on Stochastic Dynamics, Nonlinear Probability, and Ergodicity Durham, United Kingdom ▪ Workshop in Stability Analysis for Nonlinear PDEs Oxford, United Kingdom ▪ International PDE Conference Oxford, United Kingdom ▪ vICM Sectional Workshop in Applied Mathematics London, United Kingdom ▪ Oxford–ETH Workshop on Mathematical & Computational Finance Zurich, Switzerland ▪ BIRS Workshop on Stochastic Mass Transports Banff, Canada 	Sep 2023 Sep 2023 Jun 2023 May 2023 Apr 2023 Mar 2023 Oct 2022 Sep 2022 Aug 2022 Aug 2022 Jul 2022 Jul 2022 Jun 2022 Mar 2022

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