Yifan Jiang

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EDUCATION Un		versity of Oxford, Oxford, United Kingdom DPhil student in Mathematics of Random Systems Supervised by Prof. Jan Obłój and co-supervised by Prof. Gui-Qiang C	Sep 2021 – Present Chen	
	Fud • E	an University, Shanghai, China 3Sc in Mathematics and Applied Mathematics	Sep 2016 – Jul 2020	
	The • S	e University of Texas at Austin, Austin, United States of America Study abroad in Mathematics	Aug 2018 – Dec 2018	
AWARDS & HONORS	•] • H • (• S	Fravel Award for Young Researchers at the 12th Bachelier World Cong Finalists of Alibaba Global Mathematics Competition (10th out of 50k- Dxford-Radcliffe Graduate Scholarship (4-year full scholarship) Gamsung Scholarship at Fudan University (the first prize)	gress Jul 2024 +) Jun 2022 May 2021 Oct 2017	
PUBLICATIONS	[1]	Wasserstein distributional robustness of neural networks with X. Bai, G. He and J. Obłój, <i>Advances in Neural Information Pro</i>	cessing Systems, 2023.	
	[2]	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.		
	[3]	Existence and distributional chaos of points that are recurrent but not with X. Tian, <i>Journal of Dynamics and Differential Equations</i> , 2022.	Banach recurrent	
	[4]	Convergence of the Deep BSDE method for FBSDEs with non-Lipsc with J. Li, <i>Probability, Uncertainty and Quantitative Risk</i> , 2021, vol.	hitz coefficients 6(4), 391-408.	
PREPRINTS	[5]	A transfer principle for computing the adapted Wasserstein distar processes with F. R. Lim, arxiv:2505.21337 2025.	nce between stochastic	
	[6]	Wasserstein distributional adversarial training for deep neural network with X. Bai, G. He, and J. Obłój, arXiv:2502.09352, 2025.	ks	
	[7]	Sensitivity of causal distributionally robust optimization with J. Obłój, arXiv:2408.17109, 2024.		
	[8]	The <i>anytime</i> convergence of stochastic gradient descent with moment -time perspective with Y. Feng, T. Wang, and Z. Ying, arXiv:2310.19598, 2024.	cum: from a continuous	
	[9]	Duality of causal distributionally robust optimization: the discrete-tin arXiv:2401.16556, 2024.	ne case	
I	[10]	Sequential propagation of chaos with K. Du and X. Li, arXiv:2301.09913, 2023.		
IN PREPARATION	[11]	Computing the adapted Wasserstein distance via time discretization with F. R. Lim, 2025+.		

ACADEMIC SERVICE	Reviewer for Mathematics of Operations Research, Probability, Uncert Risk.	tainty, and Quantitative
TEACHING	Teaching Assistant, University of Oxford	
EXPERIENCE	 Part A Probability 	Michaelmas Term 2024
	 B8.1 Probability, Measure, and Martingales 	Michaelmas Term 2023
	 B8.1 Probability, Measure, and Martingales 	Michaelmas Term 2022
	 MCF Advanced Numerical Methods 	Hilary Term 2022
	Tutor, University of Oxford	
	 C4.9 Optimal Transport and Partial Differential Equations 	Michaelmas Term 2023
	 B8.3 Mathematical Models of Financial Derivatives 	Hilary Term 2023
INVITED TALKS	 Path-dependents PDEs arising from the adapted Wasserstein distance Oxbridge PDE Conference Cambridge, United Kingdom 	Apr 2025
	 Sensitivity of causal distributionally robust ontimization 	Nov 2024
	Vienna Seminar in Mathematical Finance and Probability	1100 2024
	Vienna, Austria	
	 Sensitivity of causal distributionally robust optimization 	Nov 2024
	Talks in Financial and Insurance Mathematics at ETH	
	Zurich, Switzerland	
	 Distributionally robust optimization in dynamic context 	Oct 2024
	INFORMS Annual Meeting	
	Seattle, United States of America	
	 Sensitivity of causal distributionally robust optimization 	Sep 2024
	Berlin-Oxford Summer School in Mathematics of Random Systems	
	Oxford, United Kingdom	
	 Sensitivity of causal distributionally robust optimization 	Jul 2024
	12th Bachelier World Congress of the Bachelier Finance Society	
	Rio de Janeiro, Brazil	
	 Wasserstein distributional robustness of neural networks 	Apr 2024
	Oxford–Princetno Workshop on Financial Mathematics and Stochastic	Analysis
	Princeton, United States of America	
	 Duality of causal distributionally robust optimization: the discrete-tim 	e case Apr 2024
	Oxford–ETH Workshop on Mathematical & Computational Finance	
	Zurich, Switzerland	E.h. 2024
	• Causal distributionally robust optimization – duality and sensitivity	Fed 2024
	Imperial College Mathematical Finance Seminar	
		6 2022
	Causal distributionally robust optimization – sensitivity and audity	Sep 2023
	Marseille, France	and insurance
	 Sensitivity of robust optimization over an adapted Wasserstein ambiau 	ity set Sep 2022
	London–Oxford–Warwick Mathematical Finance Workshop	, <u>r</u> , , <u></u>
	Oxford, United Kingdom	
ATTENDED	 Clay Research Conference and Workshops 	Sen 2023
WORKSHOPS	Oxford, United Kingdom	5CP 2025

 Junior Researcher in Stochastic Optimal Control (Co-organizer) 	Sep 2023
Berlin, Germany	
 Oxford–ETH Workshop on Mathematical & Computational Finance 	Jun 2023
Oxford, United Kingdom	
 Workshop on Model-free Mathematical Finance 	May 2023
London, United Kingdom	
 Oxbridge PDE Conference 	Mar 2023
Cambridge, United Kingdom	
Oxford–Princeton Workshop on Stochastic Analysis and Mathematical Finance	Oct 2022
Oxford, United Kingdom	
 Mathematics of Random Systems Summer School 	Sep 2022
Oxford, United Kingdom	
- Durham Symposium on Stochastic Dynamics, Nonlinear Probability, and Ergodicity	⁷ Aug 2022
Durham, United Kingdom	
 Workshop in Stability Analysis for Nonlinear PDEs 	Aug 2022
Oxford, United Kingdom	
 International PDE Conference 	Jul 2022
Oxford, United Kingdom	
 vICM Sectional Workshop in Applied Mathematics 	Jul 2022
London, United Kingdom	

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