

# Yifan Jiang

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EDUCATION	University of Oxford, Oxford, United Kingdom	Sep 2021 – Present
	<ul style="list-style-type: none"><li>▪ DPhil student in Mathematics of Random Systems</li><li>▪ Under the supervision of Prof. Jan Obłój and Prof. Gui-Qiang Chen</li></ul>	
	Fudan University, Shanghai, China	Sep 2016 – Jul 2020
	<ul style="list-style-type: none"><li>▪ BSc in Mathematics and Applied Mathematics</li></ul>	
	The University of Texas at Austin, Austin, United States of America	Aug 2018 – Dec 2018
	<ul style="list-style-type: none"><li>▪ Study abroad in Mathematics</li></ul>	
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>▪ Stochastic control, optimal transport, mathematical finance</li><li>▪ Fluid dynamics, scalar conservation laws, mean-field systems</li><li>▪ Chaos, entropy, ergodicity</li></ul>	
PUBLICATIONS	<p>[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.</p> <p>[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.</p> <p>[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.</p>	
PREPRINTS	<p>[4] Sequential propagation of chaos with K. Du and X. Li, 2023.</p>	
AWARDS & HONORS	▪ 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	<b>Research Assistant</b> , Fudan University	Aug 2020 – Aug 2021
	<ul style="list-style-type: none"><li>▪ Under the supervision of Prof. Shanjian Tang and Dr. Kai Du</li><li>▪ Stochastic control, forward-backward SDEs, neural networks</li></ul>	
	<b>Undergraduate Researcher</b> , Fudan University	Mar 2019 – Mar 2020
	<ul style="list-style-type: none"><li>▪ Under the supervision of Prof. Xueting Tian</li><li>▪ Topological dynamical systems, chaos, ergodic measures</li></ul>	
TEACHING EXPERIENCE	<b>Teaching Assistant</b> , University of Oxford	
	<ul style="list-style-type: none"><li>▪ B8.1 Probability, Measure, and Martingales</li><li>▪ MCF Advanced Numerical Methods</li></ul>	
		Michaelmas Term 2022 Hilary Term 2022
	<b>Tutor</b> , University of Oxford	
	<ul style="list-style-type: none"><li>▪ B8.3 Mathematical Models of Financial Derivatives</li></ul>	
		Hilary Term 2023

<b>SELECTED TALKS</b>	<ul style="list-style-type: none"> <li>▪ London–Oxford–Warwick Mathematical Finance Workshop Oxford, United Kingdom <i>Sensitivity of robust optimization over an adapted Wasserstein ambiguity set</i></li> </ul>	Sep 2022
<b>ATTENDED WORKSHOPS</b>	<ul style="list-style-type: none"> <li>▪ Conference in Mathematics of Random Systems 2023 Edinburgh, United Kingdom</li> <li>▪ Oxbridge PDE Conference Cambridge, United Kingdom</li> <li>▪ Oxford–Princeton Workshop on Stochastic Analysis and Mathematical Finance Oxford, United Kingdom</li> <li>▪ Mathematics of Random Systems Summer School Oxford, United Kingdom</li> <li>▪ Durham Symposium on Stochastic Dynamics, Nonlinear Probability, and Ergodicity Durham, United Kingdom</li> <li>▪ Workshop in Stability Analysis for Nonlinear PDEs Oxford, United Kingdom</li> <li>▪ International PDE Conference Oxford, United Kingdom</li> <li>▪ vICM Sectional Workshop in Applied Mathematics London, United Kingdom</li> <li>▪ Oxford–ETH Workshop on Mathematical &amp; Computational Finance Zurich, Switzerland</li> <li>▪ BIRS Workshop on Stochastic Mass Transports Banff, Canada</li> </ul>	Apr 2023 Mar 2023 Oct 2022 Sep 2022 Aug 2022 Aug 2022 Jul 2022 Jul 2022 Jun 2022 Mar 2022

[Updated on 2023-04-29]