

# 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> <p>[5] Wasserstein distributional robustness of neural networks with X. Bai, G. He and J. Obłój, 2023.</p>	
AWARDS & HONORS	<ul style="list-style-type: none"><li>▪ Oxford-Radcliffe Graduate Scholarship (4-year full scholarship)</li><li>▪ Putnam Mathematical Competition top 3%</li><li>▪ Samsung Scholarship at Fudan University (the first prize)</li></ul>	<p>May 2021</p> <p>Dec 2018</p> <p>Oct 2017</p>
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>	<p>Michaelmas Term 2022</p> <p>Hilary Term 2022</p>
	<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>▪ Workshop on Model-free Mathematical Finance London, United Kingdom</li> <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>	May 2023 Apr 2023 Mar 2023 Oct 2022 Sep 2022 Aug 2022 Aug 2022 Jul 2022 Jul 2022 Jun 2022 Mar 2022

[Updated on 2023-06-22]