## Yinbin Han

	yh	6006@nyu.edu   Brooklyn, NY	
EDUCATION	New York University Ph.D. Student, Finance and Risk Engineering Advisors: Renyuan Xu, Meisam Razaviyayn	Aug 2024 – Present	
	University of Southern California Ph.D. Student, Industrial and Systems Engineering	Aug 2021 – Aug 2024	
	Chinese University of Hong Kong, Shenzhen B.S. Mathematics	Sep 2017 – Jun 2021	
	University of California, Berkeley Exchange Student	Jan 2020 – May 2020	
INDUSTRIAL EXPERIENCE	Meta Research Scientist Intern	May 2024 – Aug 2024	
RESEARCH INTERESTS	Applied Probability and Stochastic Modeling		
	• Nonconvex Optimization and Stochastic Optimization		
	Data-driven Decision Making and Reinforcement Learning		
	• Stochastic Control and Mathematical Finance		
	• Diffusion Models and Schrödinger Bridge		
JOURNAL PUBLICATIONS	1. Y. Han and Z. Wang. "Optimal Switching Policy for Batch Servers." Operations Research Letters, 2023.		
CONFERENCE PUBLICATIONS	1. Y. Han, M. Razaviyayn, and R. Xu. "Neural network-based score estimation in diffusion models: Optimization and generalization." <i>International Conference on Learning Representations (ICLR)</i> , 2024.		
	• Short version accepted by NeurIPS workshop on Diffusion Models, 2023.		
	• Long version to be submitted to Mathematic		
WORKING PAPERS	1. Y. Han, M. Razaviyayn, and R. Xu. "Stochastic Co-Models: Optimality, Regularity, and Convergence.		
	2. Y. Han, M. Razaviyayn, and R. Xu. "Policy Gradient Converges to the Globally Optimal Policy for Nearly Linear-Quadratic Regulators." Minor revision, SIAM Journal on Control and Optimization, 2024.		
	• Short version accepted by NeurIPS Workship Learning, 2022.	op Optimization for Machine	
INVITED TALKS	S • INFORMS Annual Meeting, Seattle	Oct 2024	
	Yale Sampling Conference, New Haven	Oct 2024 Oct 2024	
	• International Conference on Learning Representat		
	• INFORMS Optimization Society Conference, Hou		
	<ul> <li>NeurIPS 2023 Workshop on Diffusion Models, New</li> </ul>		
	<ul> <li>Neurips 2025 Workshop on Diffusion Models, New</li> <li>INFORMS Annual Meeting, Phoenix</li> </ul>	Oct 2023	
	• IVI OTOMO Tilinuai Meeting, I noema	OCt 2023	

	• NeurIPS 2022 Workshop OPT2022, New Orleans	Dec 2022	
	• INFORMS Annual Meeting, Indianapolis	Nov 2022	
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ORGANIZERS	• Co-organizer of the NYC Brown Bag Reading Group Generative AI	on Foundations of Sep 2024	
	• Session co-chair at INFORMS Optimization Society Confere	nce Mar 2024	
REVIEWERS	• Journals: European Journal of Operational Research.		
	• Conferences: International Conference on Learning Representations (ICLR), International Conference on Machine Learning (ICML), Neural Information Processing Systems (NeurIPS), International Conference on Artificial Intelligence and Statistics (AISTATS), Conference on Uncertainty in Artificial Intelligence (UAI).		
PROFESSIONAL MEMBERSHIP	<ul> <li>Institute for Operations Research and the Management Sciences (INFORMS)</li> <li>Applied Probability Society (APS)</li> </ul>		
TEACHING EXPERIENCE	NYU, Teaching Assistant  ◆ FRE-GY 9073: Stochastic Systems and Modern ML Theory Fall 2024		
	USC, Teaching Assistant		
	•	ll 2023, Spring 2024	
	CUHKSZ, Undergraduate Student Teaching Fellow		
	• MAT2002: Ordinary Differential Equations	Spring 2021	
	• BIO2001: General Biology	Summer 2019	
AWARDS & HONORS	National Scholarship of China	2020	
	• Academic Performance Scholarship, CUHKSZ	2018,2019,2020	
	• Dean's List, CUHKSZ	2018,2019,2020	
TECHNICAL SKILLS	<ul> <li>Programming Languages:</li> <li>Proficient in Python, Numpy, Pandas, PyTorch, R, and MATLAB</li> <li>Familiar with Java, C/C++, MySQL</li> </ul>		
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 $\bullet$  Experience with Hadoop, Spark, and CUDA