

Yinbin Han

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EDUCATION	Stanford University Doctor of Philosophy, Management Science and Engineering <i>Advisors: Renyuan Xu (Stanford), Meisam Razaviyayn (USC)</i>	Sep 2025 – Dec 2027 (Expected)
	New York University Ph.D. Student, Finance and Risk Engineering	Sep 2024 – Aug 2025
	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	<ul style="list-style-type: none">• 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	<ol style="list-style-type: none">1. Y. Han, M. Razaviyayn, and R. Xu. “Policy Gradient Converges to the Globally Optimal Policy for Nearly Linear-Quadratic Regulators.” <i>SIAM Journal on Control and Optimization</i>, 2025.<ul style="list-style-type: none">• Short version accepted by <i>NeurIPS Workshop Optimization for Machine Learning</i>, 2022.2. Y. Han and Z. Wang. “Optimal Switching Policy for Batch Servers.” <i>Operations Research Letters</i>, 2023.	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none">1. Y. Han, M. Razaviyayn, and R. Xu. “Stochastic Control for Fine-tuning Diffusion Models: Optimality, Regularity, and Convergence.” International Conference on Machine Learning (ICML), 2025.2. 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.<ul style="list-style-type: none">• Short version accepted by <i>NeurIPS workshop on Diffusion Models</i>, 2023.	

INVITED TALKS	• INFORMS Annual Meeting, Atlanta	Oct 2025
	• International Conference on Continuous Optimization, Los Angeles	Jul 2025
	• International Conference on Machine Learning, Vancouver	Jul 2025
	• INFORMS Applied Probability Society Conference, Atlanta	Jun 2025
	• Advances in Stochastic Control and Reinforcement Learning, Banff	Apr 2025
	• INFORMS Annual Meeting, Seattle	Oct 2024
	• Yale Sampling Conference, New Haven	Oct 2024
	• International Conference on Learning Representations, Vienna	May 2024
	• INFORMS Optimization Society Conference, Houston	Mar 2024
	• NeurIPS 2023 Workshop on Diffusion Models, New Orleans	Dec 2023
	• INFORMS Annual Meeting, Phoenix	Oct 2023
	• NeurIPS Workshop OPT2022, New Orleans	Dec 2022
	• INFORMS Annual Meeting, Indianapolis	Nov 2022
ORGANIZERS	• Co-organizer of NeurIPS 2025 Workshop on Generative AI in Finance	Dec 2025
	• Session co-chair at International Conference on Continuous Optimization	July 2025
	• Co-organizer of the NYC Brown Bag Reading Group on Foundations of Generative AI	Sep 2024
	• Session co-chair at INFORMS Optimization Society Conference	Mar 2024
REVIEWERS	• Journals: SIAM Journal on Control and Optimization, European Journal of Operational Research, Finance and Stochastics.	
	• 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), Association for the Advancement of Artificial Intelligence (AAAI).	
PROFESSIONAL MEMBERSHIP	• Institute for Operations Research and the Management Sciences (INFORMS)	
	• Applied Probability Society (APS)	
TEACHING EXPERIENCE	NYU, Teaching Assistant	
	• FRE-GY 5020 & 5030: Bootcamp	Summer 2025
	• FRE-GY 6233: Stochastic Calculus and Option Pricing	Spring 2025
	• FRE-GY 9073: Stochastic Systems and Modern ML Theory	Fall 2024
	USC, Teaching Assistant	
	• ISE 530: Optimization Methods for Analytics	Fall 2023, Spring 2024
	CUHKSZ, Undergraduate Student Teaching Fellow	
	• MAT2002: Ordinary Differential Equations	Spring 2021
	• BIO2001: General Biology	Summer 2019

**AWARDS &
HONORS**

- ICCOPT 2025 Student Travel Grant Jun 2025
- Yale Sampling Conference Student Travel Grant Oct 2024
- National Scholarship of China 2020
- Academic Performance Scholarship, CUHKSZ 2018, 2019, 2020
- Dean's List, CUHKSZ 2018, 2019, 2020

**TECHNICAL
SKILLS**

Programming Languages:

- Proficient in Python, Numpy, Pandas, PyTorch, R, and MATLAB
- Familiar with Java, C/C++, MySQL
- Experience with Hadoop, Spark, and CUDA