Naimeng Ye

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Education

Columbia University NY, USA
Ph.D. in Operations Research 2022–Present
- Advisor: Hongseok Namkoong, Tianyi Peng
- Research Interest: AI agent for sequential decision-making.

Princeton University NJ, USA
B.A. in Mathematics 2018–2022
- Graduated with High Honors in Mathematics, Phi Beta Kappa, Sigma Xi Society
- Thesis: Model-Misspecified Offline Reinforcement Learning
- Advisor: Mengdi Wang

Papers

1. **Speculative Actions: A Lossless Framework for Faster Agentic Systems**
Naimeng Ye*, Arnav Ahuja*, Georgios Liargkovas*, Yunan Lu*, Kostis Kaffes, Tianyi Peng
Under review.

2. **Differences-in-Neighbors for Network Interference in Experiments** Tianyi Peng, Naimeng Ye, and Andrew Zheng (α-β order)
*** Finalist, RMP Jeff McGill Student Paper Award 2025**
ACM EC 2025

3. **Exchangeable Sequence Models Can Naturally Quantify Uncertainty Over Latent Concepts**
Naimeng Ye and Hongseok Namkoong.
ICLR 2024 Workshop ME-FoMo.
Submitted to Operations Research

4. **PersonalLLM: Tailoring LLMs to Individual Preferences.**
Tom Zollo*, Andrew Siah*, Naimeng Ye, Ang Li, and Hongseok Namkoong.
ICLR 2025.

5. **AI Agents for Web Testing: A Case Study in the Wild.**
Naimeng Ye*, Xiao Yu*, Ruize Xu*, Tianyi Peng, and Zhou Yu.
NeurIPS 2025 LAW Workshop

Working Projects

SynthTools: A Framework for Scaling Synthetic Tools for Agent Development
with Tommaso Castellani, Daksh Mittal, Thomson Yen, and Hongseok Namkoong 2025

Sequence Models as algorithms and meta-learners
with Priyank Agrawal and Hongseok Namkoong 2025

Adaptive tool use: scaling up post-training RL environments
with Daksh Mittal, Thomson Yen, Minghui Chen, Tommaso Castellani, Hanming Yang, and Hongseok Namkoong 2025

Prior Experience

Undergrad Thesis in Reinforcement Learning | NJ, USA June 2021 – May 2022
with Professor Mengdi Wang of Princeton University

- Worked to develop the first gap-dependent sample complexity bound for general pessimistic algorithms in offline RL setting.

Undergrad Researcher in Cryptography | NJ, USA Feb 2020 – May 2021
with Professor Mark Zhandry of Princeton University

- Worked to develop a general relationship between security of cryptographic schemes with classical access to a random oracle (ROM) and schemes with quantum access to a random oracle (QROM).

University of Chicago Mathematics REU | USA June 2020 - Sep 2020
with Professor Peter May of University of Chicago

- Wrote a expository paper "Equivariant K-theory and the Atiyah-Segal Completion Theorem", supervised by Dr. Akhil Matthew and Professor Peter May.

Awards and Honors

Deming Doctoral Fellowship, Columbia Business School 2025-2026
Shapiro Prize for Academic Excellence, Princeton University September 2019
Manfred Pyka Memorial Prize in Physics, Princeton University June 2019
CGMO Gold Medalist, China, July 2017

Academic Services

Reviewer for: *International Conference on Learning Representations*, 2025, 2026
Reviewer for: *International Conference on Artificial Intelligence and Statistics*, 2026
Reviewer for:*Conference on Neural Information Processing Systems*, 2024

Teaching Experience

PhD Generative AI: Technical and Social: Fall 2025
EMBA Managerial Statistics: *EMBA Core*, Fall 2025, Fall 2024, Fall 2023
MBA Managerial Statistics: *MBA Core*, Fall 2024
COS217: Introduction to Programming Systems, Spring 2020

Skills

Languages: English, Chinese.
Programming: `Python`, `Java`,`C`, `Solidworks`.