

EDUCATION

- **Columbia University, Graduate School of Business** Sep. 2025 - present
Ph.D. in Decision, Risk and Operations
 - Advisor: Tianyi Peng
- **Shanghai Jiao Tong University** Sep. 2021 - June 2025
Undergraduate in Computer Science
 - Member of **John Hopcroft Honors Class**, an elite CS program at SJTU for top 5% of students
 - Graduate with Best Thesis Award

RESEARCH EXPERIENCE

- **Efficient Experimentation for Long-term Causal Effects** Jan. 2024 - Aug. 2025
Advisor: Prof. David Simchi-Levi, MIT Data Science Lab
 - Systematically modeled and analyzed the experimentation problem for long-term causal effects in dynamic service systems by incorporating the Markov Decision Process (MDP) framework.
- **Scalable Evaluation in Multi-agent Reinforcement Learning** Feb. 2024 - May 2025
Advisor: Prof. Tianyi Peng, DRO, Columbia Business School
 - Invented a novel theoretical framework called Markov Entanglement to study local value decomposition. This framework is inspired by Quantum Entanglement in quantum physics.
- **Solving Extensive-form Games with Linear Function Approximations** July 2023 - Nov. 2023
Advisor: Prof. Shuai Li, John Hopcroft Center, Shanghai Jiao Tong University
 - Designed algorithms for imperfect-information extensive-form games (IIEFGs) with linear function approximations, and presented provably efficient convergence to Nash Equilibrium.

PREPRINTS

1. **Multi-agent Markov Entanglement**
with Tianyi Peng.
*NeurIPS 2025 **Spotlight** (~ 2%)*
 - * **Second place**, INFORMS George Nicholson Student Paper Competition 2025
 - * **Winner**, INFORMS Junior Faculty Interest Group (JFIG) Best Paper Prize 2025
2. **Improving the Estimation of Lifetime Effects in A/B Testing via Treatment Locality**
with David Simchi-Levi and Chonghuan Wang.
<https://arxiv.org/abs/2407.19618>
3. **Towards provably efficient learning of extensive-form games with imperfect information and linear function approximation**
with Canzhe Zhao, Weiming Liu, Haobo Fu, Qiang Fu, Shuai Li.
UAI 2025

PROFESSIONAL EXPERIENCE

- **ByteDance** May 2025 - Aug. 2025
Data Scientist Intern
 - Study simulations in A/B testing via Large Language Model (LLM) and design recommendation algorithms based on customer digital twins.

HONORS AND AWARDS

- Second place, INFORMS George Nicholson Student Paper 2025
- Winner, INFORMS JFIG Best Paper Prize 2025
- Outstanding Graduate of Shanghai 2025
- Best Bachelor Thesis, *Multi-agent Markov Entanglement*, 2025
- Zhiyuan Distinguished Scholarship 2025
- National Scholarship of China 2022
- Fan Hsu-Chi Scholarship 2023, 2024
- Han-Ying-Ju-Hua Scholarship 2023
- Zhiyuan Honorary Scholarship 2022, 2023, 2024
- A-class Academic Excellence Scholarship 2022

SKILLS SUMMARY

- **Programming Languages:** C/C++, Python
- **Frameworks:** Pytorch, Jax