

EDUCATION

UC Berkeley [GPA: 4.00/4.00, Advisor: Xin Guo]

Aug. 2016 – May. 2022 (expected)

Ph.D., Industrial Engineering and Operations Research (IEOR) (in progress)

M.S., Industrial Engineering and Operations Research (IEOR)

Courses: Probability Theory (A+), Applied Stochastic Processes I, II (A+), Theoretical Statistics (A+), Convex Optimization and Approximation (A+), Network Flows and Graphs (A+), Mathematical Programming (A+)

Peking University [GPA: 3.74/4.00, Advisor: Zaiwen Wen]

Sept. 2012 – July. 2016

B.S., School of Mathematical Sciences (SMS), Department of Probability and Statistics

PUBLICATIONS & PREPRINTS

- **Learning Mean-Field Games**
X. Guo, A. Hu, R. Xu and J. Zhang. *Neural Information Processing Systems (NeurIPS)*, 2019.
- **Consistency and Computation of Regularized MLEs for Multivariate Hawkes Processes**
X. Guo, A. Hu, R. Xu and J. Zhang. *Preprint*, [arXiv:1810.02955](https://arxiv.org/abs/1810.02955).
Short version appeared in *NeurIPS 2018 Workshop on Causal Learning*.
- **Logarithmic Regret for Episodic Continuous-Time Linear-Quadratic Reinforcement Learning over a Finite-Time Horizon**
M. Basei, X. Guo, A. Hu and Y. Zhang. *Preprint*, [arXiv:2006.15316](https://arxiv.org/abs/2006.15316), submitted to *J. Mach. Learn. Res.*
- **A General Framework for Learning Mean-Field Games**
X. Guo, A. Hu, R. Xu and J. Zhang. *Preprint*, [arXiv:2003.06069](https://arxiv.org/abs/2003.06069).
Major revision at *Mathematics of Operations Research (MOR)*.
- **Reinforcement Learning for Linear-Convex Models with Jumps via Stability Analysis of Feedback Controls**
X. Guo and A. Hu and Y. Zhang. *Preprint*, [arXiv:2104.09311](https://arxiv.org/abs/2104.09311), submitted to *SIAM J. Control Optim.*
- **Theoretical Guarantees of Fictitious Discount Algorithms for Episodic Reinforcement Learning and Global Convergence of Policy Gradient Methods**
X. Guo, A. Hu and J. Zhang. *Preprint*, [arXiv: 2109.06362](https://arxiv.org/abs/2109.06362), submitted to the *AAAI Conference on Artificial Intelligence*.

WORK EXPERIENCE

May. 2019 – Aug. 2019 **Applied Scientist Intern, Amazon, Seattle**

Manager: Dr. Xinyang Shen

Data-Driven Large-Scale Inbound Behavior Prediction for Third-Party Sellers

INVITED TALKS & PROFESSIONAL SERVICES

- INFORMS Annual Meeting, 2018 (Phoenix, AZ), 2019 (Seattle, WA), 2020 (Virtual)
- Neural Information Processing Systems, Poster, Vancouver, December 10, 2019
- Berkeley-Stanford Workshop on Mathematical and Computational Finance, Stanford University, CA (July. 2018)
- Graduate student instructor for IEOR 120/170/172/221/241/263B
- Reviewer: Journal of Optimization Theory and Applications (JOTA), NeurIPS 2021

HONORS AND AWARDS

- Outstanding Graduate Student Instructor (top 10%) 2021
- Berkeley Marshall-Oliver-Rosenberger Fellowship 2020
- NeurIPS Travel Award 2019
- Berkeley IEOR First Year Faculty Fellowship Award 2017
- Baosteel Scholarship, Peking University (top 0.1%) 2015
- Meritorious Award of 2015 ICM 2015
- First Prize of 2015 Challenge Cup, Peking University 2015

SKILLS

- **Programming & Software:** Python, Matlab, R, SQL, LaTeX
- **Specialization:** Applied Probability, Reinforcement Learning, Statistical/Machine Learning, Optimization