

Jinning Li

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Education

University of California, Berkeley

Ph.D. Candidate

Berkeley, CA

08/2019 – 05/2024(Expected)

○ Academic advisor: Prof. Masayoshi Tomizuka — Major: Control; Minor: Machine Learning, Optimization — GPA: 3.96/4.0

University of California, Berkeley

M.S. in Engineering

Berkeley, CA

08/2019 – 12/2022

Harbin Institute of Technology

B.Eng. in Automation

Harbin, China

09/2015 – 07/2019

○ Academic advisor: Prof. Huijun Gao, and Prof. Weichao Sun — Major GPA: 4.0/4.0 — Ranking: 1/150

Skills

- Research: Deep Reinforcement Learning, Optimization, Machine Learning, Control
- Deep learning framework: Pytorch, Tensorflow
- Programming: Python, C/C++, MATLAB

Work Experiences

Google LLC

Software Engineer Intern, Discover Ads Auction Team

Mountain View, CA

05/2022 – 08/2022

- Designed and built an offline reinforcement learning infrastructure under Tensorflow for discover ads auction
- Trained deep NNs to optimize auction long term values from real-world data to achieve better advertiser/user value trade-off
- Conducted A/B testing of the trained algorithm on production traffic and polished the models accordingly
- Drove weekly meetings with the host teams and the research teams with effective communication
- Documented the design and implementation details for future iterations by the team

Academic Services

- **Co-chair** of Presentation Sessions at *2021 IEEE Conference on Robotics and Automation (ICRA)*
- **Graduate Student Instructor** of *UC Berkeley ME C232/EE C220A (Advanced Control Systems I)* Fall 2021
- **Academic Publication Reviewer** for *IEEE RA-L, IEEE T-SMC:Systems, CoRL, ICRA, IROS, NeurIPS workshops*

Publications

- [1] **Jinning Li**, Chen Tang, Masayoshi Tomizuka and Wei Zhan, "[Hierarchical Planning Through Goal-Conditioned Offline Reinforcement Learning](#)," in *IEEE Robotics and Automation Letters*, 2022.
- [2] **Jinning Li**, Chen Tang, Masayoshi Tomizuka and Wei Zhan. "[Dealing with the Unknown: Pessimistic Offline Reinforcement Learning](#)," in *2021 Conference on Robot Learning (CoRL)*, 2021.
- [3] Jiachen Li, Hengbo Ma, Zhihao Zhang, **Jinning Li** and Masayoshi Tomizuka. "[Spatio-Temporal Graph Dual-Attention Network for Multi-Agent Prediction and Tracking](#)," in *IEEE Transactions on Intelligent Transportation Systems*, 2021.
- [4] **Jinning Li**, Liting Sun, Jianyu Chen, Masayoshi Tomizuka and Wei Zhan. "[A Safe Hierarchical Planning Framework for Complex Driving Scenarios based on Reinforcement Learning](#)," in *2021 IEEE Conference on Robotics and Automation (ICRA)*, 2021.
- [5] **Jinning Li**, Liting Sun, Wei Zhan and Masayoshi Tomizuka. "[Interaction-aware behavior planning for autonomous vehicles validated with real traffic data](#)," in *Dynamic Systems and Control Conference (DSCC)*. American Society of Mechanical Engineers, 2020.
- [6] **Jinning Li**. "[A novel integrated SVM for fault diagnosis using KPCA and GA](#)," in *Journal of Physics: Conference Series*. IOP Publishing, 2019.