

Qinjie Lin

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Homepage / Google scholar / LinkedIn

EDUCATION

- Department of Computer Science, Northwestern University** 09/2020 - Present
- ✧ PhD in progress, Computer Science
Advisor: Han Liu
- Department of Computer Science, Northwestern University** 09/2018 - 06/2020
- ✧ Master of Science, Computer Science
Advisor: Han Liu GPA: **3.87/4.0**
- Department of Computer Science and Engineer, South China University of Technology** 09/2014 - 06/2018
- ✧ Bachelor of Engineering, Computer Science and Technology
Advisor: Sheng Bi GPA: **3.74/4.0** Ranking: Top10%

SELECTED EXPERIENCE

- AI Research Scientist Internship, Meta Reality Lab** 06/2023 - 10/2023
- ✧ Developing AI planning methods that can support inferring user input and interaction intent, to continually recommend actions which best serve the user in a given context.
 - ✧ Devising a hierarchical planning approach capable of planning for high-level tasks by decomposing the high-level tasks to generate a sequence of low-level tasks which can be executed by an agent.
- Machine Learning Research Intern, Zebra Tech** 09/2021 - 12/2021
- ✧ Developing and applying large language model and reinforcement learning techniques in innovative end-to-end system prototypes to solve real-world problems.
- Robotics SLAM Intern, Inmotion Robotics** 05/2018 - 08/2018
- ✧ Developing robotic autonomous localizing and mapping algorithm(SLAM) for mobile robot.

PUBLICATIONS

- ✧ **EMS®: A Massive Computational Experiment Management System towards Data-driven Robotics**
Qinjie Lin, Guo Ye, Han Liu
2023 IEEE International Conference on Robotics and Automation (ICRA)
- ✧ **Learning to Plan in High Dimensions via Neural Exploration-Exploitation Trees**
Binghong Chen, Bo Dai, Qinjie Lin, Guo Ye, Han Liu, Le Song
Published on The 2020 International Conference on Learning Representations. (ICLR)
- ✧ **Collision-free Navigation of Human-centered Robots via Markov Games**
Guo Ye, Qinjie Lin*, Tzung-Han Juang, Han Liu*
Published on the 2020 International Conference on Robotics and Automation. (ICRA)
- ✧ **RoboFlow: a Data-centric Workflow Management System for Developing AI-enhanced Robots**
Qinjie Lin, Guo Ye*, Jiayi Wang, Han Liu*
5th Annual Conference on Robot Learning, Blue Sky Submission Track. (CoRL)
- ✧ **Switch Trajectory Transformer with Distributional Value Approximation for Multi-Task Reinforcement Learning**
Qinjie Lin, Han Liu, Biswa Sengupta
Submission to AAAI2024

- ✧ **Compiling Temporal Hierarchical Task Planning into Integer Linear Programming**
Qinjie Lin, Satish Kumar, Rohan Chitnis, Ruta Desai, Han Liu, Nitin Kamra
Submission to ICAPS2024
- ✧ **ChatEMS: An AI-Enabled Experiment Management System for Efficiently Scaling Computational Experiments Using Natural Language**
Qinjie Lin, Han Liu
Submission to MLSys2024
- ✧ **RobLAX: A Differentiable Robotics Framework for Physics Augmented Reinforcement Learning**
Guo Ye, Qinjie Lin*, Tim Tsz-Kit Lau, Wanxin Jin, Haozheng Luo, Zhuoran Yang, Cheng Zhou, Zhaoran Wang, Han Liu*
Working on submission to Arxiv
- ✧ **Indoor Mapping Using GMapping on Embedded System**
Qinjie Lin, Zhaowu Ke, Sheng Bi, Sirui Xu, Yuhong Liang, Fating Hong, Liqian Feng*
Published on IEEE International Conference on Robotics and Biomimetics. (ROBIO)
- ✧ **Optimization of Robot Path Planning Parameters Based on Genetic Algorithm**
Yuhong Liang, Fating Hong, Qinjie Lin, Liqian Feng, Sheng Bi
Published on IEEE International Conference on Real-time Computing and Robotics. (RCRA)
- ✧ **A Global Localization System for Mobile Robot Using LIDAR Sensor**
Liqian Feng, Sheng Bi, Min Dong, Fating Hong, Yuhong Liang, Qinjie Lin and Yunda Liu*
Published on the 9th IEEE International Conference on CYBER Technology (IEEE-CYBER)

COMPUTER SKILLS

- ✧ Programming languages: Python, Matlab, C++, C, R, Java, Android,
- ✧ Skills: Ray, Jax, ROS, Docker, Kubernetes, Gazebo, Pybullet, OpenRave, V-Rep, Unity, PyTorch