Qinjie Lin

EDUCATION

09/2020 - 06/2025 (expected)
Northwestern University
- PhD in Computer Science

09/2018 - 06/2020
Northwestern University
- MS in Computer Science
- GPA: 3.87 / 4.0

09/2014 - 06/2018
South China University of Technology
- Bachelor in Computer Science
- GPA: 3.74 / 4.0, TOP 10%

SKILLS

- python, pytorch
- aws, slurm
- ray, docker, kubernetes
- ros, gazebo
- Sequence Modeling
- Reinforcement Learning
- Robot Planning

CONTACT

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https://qinjielin-nu.github.io/

linkedin google scholar

ABOUT

I'm a PhD in Computer Science at Northwestern University, advised by Prof. Han Liu. My research focuses on efficiently scaling AI-driven robotics, published at ICRA, ICLR, CVPR, and CoRL. I've interned at Meta Reality Lab, Meta's Ranking & Foundational AI, and Zebra Tech.

WORK EXPERIENCE

Meta 05/2024 - 08/2024
Machine Learning Engineer Intern
- RecGPT modelling at Ranking & Foundational AI
- Deliver a model that improves a **0.04%** NE—**20%** of the seasonal goal

Meta 06/2023 - 10/2023
AI Research Scientist Intern
- Temporal Hierarchical Planning at Reality Lab
- **1st** method solving time constraint in hierarchical planning

Zebra Tech 09/2021 - 12/2021
Machine Learning Engineer Intern
- Sequence Modeling for Reinforcement Learning
- Reduce **10%** training time and **10%** success rate in multi-task setting

Inmotion Robotics 06/2018 - 07/2018
Robotics SLAM Intern
- Benchmarking SLAM method in in-door navigation setting

RESEARCH PUBLICATIONS

Robotics

- (**ICRA 2024**) DOS®: A Deployment Operating System for Robots
  G Ye, Q Lin, Z Luo, H Liu
- (**ICRA 2023**) EMS®: A Massive Computational Experiment Management System towards Data-driven Robotics
  Q Lin, G Ye, H Liu
- (**CoRL 2021**) RoboFlow: a Data-centric Workflow Management System for Developing AI-enhanced Robots
  Q Lin, G Ye*, J Wang, H Liu*
- (**ICLR 2020**) Learning to Plan in High Dimensions via Neural Exploration-Exploitation Trees
  B Chen, B Dai, Q Lin, G Ye, H Liu, L Song
- (**ICRA 2020**) Collision-free Navigation of Human-centered Robots via Markov Games
  G Ye, Q Lin*, T Juang, H Liu*
- DecisionPilot: A Grammar-aware Framework to Enhance LLM-based Embodied Decision Making
  Q Lin, H Liu

LLMs & Foundational Model

- (**CVPR 2025**) Free-viewpoint Human Animation with Pose-correlated Reference Selection
- Switch Trajectory Transformer with Distributional Value Approximation for Multi-Task Reinforcement Learning
- AURORA: A Time Series Foundational Model for Astrophysics
- GenomeAI: Integrated Fine-Tuning, Inference, and Benchmarking for Genomic Foundation Models