



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. I research efficiently scaling AI-driven robotics and publish at [ICRA](#), [ICLR](#), [CVPR](#), and [CoRL](#). I've interned at [Meta's Ranking & Foundational AI](#) group, Meta Reality Labs, 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<sup>®</sup>: A Deployment Operating System for Robots  
*G Ye, Q Lin, Z Luo, H Liu*
- **(ICRA 2023)** EMS<sup>®</sup>: 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