

Wenjie Qiu

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✉ Scholar

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RESEARCH INTERESTS

My research interests involve reinforcement learning (RL), preference learning (PL), and large language models (LLMs). I am interested in programmatic RL for building interpretable policies. Additionally, I explore the application of RL algorithms across various complex, real-world domains, including Embodied AI and Agentic problems.

I am interested in how LLMs can be leveraged to enhance RL training (LLMs for RL). Inspired by recent advancements in preference-based RL algorithms (e.g., RLHF, DPO, CPL) that have demonstrated significant success in LLMs, I am working on constructing contrastive data from unlabeled demonstrations.

EDUCATION

• Rutgers University

Ph.D. in Computer Science

Sep 2020 - Jan 2026

New Brunswick, NJ, USA

◦ Advisor: Prof. He Zhu

◦ Dissertation: *From Reasoning to Acting: A Program Synthesis Approach to Reinforcement Learning* [\[pdf\]](#)

◦ Research Interests: Reinforcement Learning, Large Language Models, Program Synthesis, and Preference Learning

• Washington University in St. Louis

M.S. in Computer Science

Aug 2018 - May 2020

St. Louis, MO, USA

◦ Advisor: Prof. Ning Zhang

◦ Thesis: *A Performance Analysis of Hardware-assisted Security Technologies* [\[pdf\]](#)

◦ Research Interests: System Security, Software Security

• Central China Normal University

B.E. in Electronic Information Engineering

Sep 2014 - Jun 2018

Wuhan, Hubei, China

◦ Coursework: Math, Physics, Communication Engineering, Computer Science, and English Literature

PROFESSIONAL EXPERIENCE

• Amazon

Applied Scientist (Ads)

Feb 2026 - Now

New York, NY, USA

◦ Agent Platform and Sequential Modeling

• Amazon

Applied Scientist Intern (Finance Technology)

Sep 2025 - Dec 2025

Bellevue, WA, USA

◦ Post-training on Large Language Model with focus on long-context finance tabular question-answering

◦ Applied RL algorithms (GSPO, GRPO, DAPO) on Qwen3-4B-Thinking, improved the benchmarking results by 6%

• LinkedIn

PhD AI/ML Intern (Core AI)

May 2025 - Aug 2025

Mountain View, CA, USA

◦ Implemented recruiter simulator for LinkedIn Hiring Agent (LiHA), synthesizing high-quality conversational data

◦ Proposed evaluation metrics for judging LiHA conversations, identified a design flaw of the Agent system

• Samsung Research America

Research Intern (AI Center)

May 2022 - Aug 2022

Mountain View, CA, USA

◦ Reproduced baselines of BEHAVIOR benchmark, a complex set of EAI problems running in ai2thor

◦ Implemented programmatically interpretable controllers for robots in iGibson simulation environment

◦ Utilized programmatic controllers for complex object detection, robot navigation and manipulation problems

• Stevens Institute of Technology

Research Intern (S3 Lab)

Jun 2019 - Aug 2019

Hoboken, NJ, USA

◦ Built a Docker-based microservice backend for Automatic Verification of Temporal Alignment

◦ Exploited the disassembling algorithms and workflow of Radare2 – a reverse-engineering framework

- **Rutgers University**
 - Research Assistant* (Rutgers Automated Reasoning Lab)
 - Research with focus on Reinforcement Learning, Program Synthesis, Neurosymbolic Programming, Embodied AI, Preference Learning, World Models, and Large Language Models
- **Rutgers University**
 - Teaching Assistant* (Department of Computer Science)
 - Computer Architecture (CS 211)
- **Washington University in St. Louis**
 - Research Assistant* (Computer Security & Privacy Laboratory)
 - Research on program behaviors in a trusted execution environment
 - Research on emulation of and fuzzing on embedded operating systems

PUBLICATIONS (*equal contribution)

Conference Papers:

- [ICLR'26] Preference-based Policy Optimization from Sparse-reward Offline Dataset [\[pdf\]](#)
Wenjie Qiu, Guofeng Cui, Shicheng Liu, Yuanlin Duan, and He Zhu
- [NeurIPS'25] Explainable Reinforcement Learning from Human Feedback to Improve Alignment [\[pdf\]](#)
Shicheng Liu, Siyuan Xu, **Wenjie Qiu**, Hangfan Zhang, and Minghui Zhu
- [NeurIPS'25] Learning from Demonstrations via Capability-Aware Goal Sampling [\[pdf\]](#) [\[code\]](#)
Yuanlin Duan, Yuning Wang, **Wenjie Qiu**, and He Zhu
- [PLDI'24] Program Synthesis of Intelligent Agents from Rewards [\[pdf\]](#) [\[code\]](#)
Guofeng Cui*, Yuning Wang*, **Wenjie Qiu***, and He Zhu
- [NeurIPS'23] Instructing Goal-Conditioned Reinforcement Learning Agents with Temporal Logic Objectives [\[pdf\]](#) [\[code\]](#)
Wenjie Qiu*, Wensen Mao*, and He Zhu
- [ICLR'22] Programmatic Reinforcement Learning without Oracles [\[Spotlight\]](#) [\[pdf\]](#) [\[code\]](#)
Wenjie Qiu and He Zhu

Recent Submissions (Under Review):

- FinLRC: Scaling Financial Long-Context Reasoning via Curriculum Reinforcement Learning (ACL)
- Compositional Policy Optimization with Language Models (AAAI)

HONORS & AWARDS

- **Spotlight Presentation** 2022
Top 3%
International Conference on Learning Representations
- **Boya Scholarship** 2016
Top 3%
Central China Normal University

ACADEMIC SERVICE

- **Conference Reviewer:** NeurIPS 2024-2025, ICLR 2025-2026, ICML 2026, AISTATS 2025-2026, NeurIPS 2025
- **Journal Reviewer:** TIST, TNNSLS

TECHNICAL SKILLS

- **ML Frameworks:** PyTorch, NumPy, FAISS, ai2thor
- **RL Frameworks:** OpenAI spinningup, OpenAI gym/gymnasium, stable-baselines3, MuJoCo
- **LLM Frameworks:** Hugging Face Transformers, lighteval, verl, vLLM
- **Tools:** Git, Docker, Kubernetes, Ray, CUDA, Weights & Biases, AWS, \LaTeX
- **Programming Languages:** Python, C, C++, MATLAB, Bash, SQL
- **Natural Languages:** English (Fluent), Chinese (Native)