

Haoran Wang

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🎓 Education Background

Tsinghua University / *Computer Science and Technology (Bachelor)* 2022.09 – 2026.06 (Expected)
Tsinghua University / *Computer Science and Technology (Phd; Advised by Yuxiao Dong)* 2026.09 – 2031.06 (Expected)

🏢 Working Experience

THUKEG (Knowledge Engineering Group) & Z.ai 2024.07 – Present
Internship | Agentic RL and GLM series | Advised by Zhenyu Hou

- Developed Coding Ability for GLMs; **Contributor for GLM-4.x and Core Contributor for GLM-5.x.**
- Software Engineering Agent Post-training like SWE-Bench Series and Terminal-Bench.
- Iterative-DPO and Self-Refine, Self-Critic Techniques on Mathematical Tasks like MATH500 and AIME24.

I am responsible for **the entire workflow of the SWE tasks** for GLMs, including data crawling and filtering, agent framework integration, private agentic framework development (solo; Openhands, SWE-Agent, ClaudeCode, ...), and RL framework integration (slime with rollout buffer). I tackled nearly all of the engineering challenges and know every detail. I'm proficient in **system profiling, debugging and production-level framework design.**

THU Media Lab 2023.09 – 2024.06
Research Assistant | Generalization of Deep Learning Models | Advised by Xingxuan Zhang

- Empirical study on Transformers' generalization in in-context learning and out-of-domain object detection.

👥 Projects

slime(5.4k🌟) Core Contributor

A RL framework for scalable and fully async agentic RL. Co-built the internal version at Z.ai for large-scale agentic RL.

OpenRLHF(9.4🌟) Core Contributor

I contributed to ring-attention implementation, multi-turn RL, and LoRA support.

verl(20.8k🌟) Contributor

I contributed to multi-turn agentic RL support with SGLang backend. [Blog is here]

KelaodeKoude🌟

I fully reproduced *Claude Code* from scratch, matching both frontend and backend usability and a reproducible score on SWE-Bench Verified compared with original version, totally before CC was leaked.

Shape Control of Deformable Linear Objects

A DeepRL recipe for deformable linear objects controlling, applicable to soft robotics. [Watch Our Videos 🏆]

📄 Selected Publications

- ***SWE-Dev: Building Software Engineering Agents with Training and Inference Scaling***
Haoran Wang, Zhenyu Hou, Yao Wei, Jie Tang, Yuxiao Dong
ACL'25 Findings
- ***Understanding the Generalization of In-Context Learning in Transformers: An Empirical Study***
Xingxuan Zhang*, Haoran Wang*, Jiansheng Li, Yuan Xue, Shikai Guan, Renzhe Xu, Hao Zou, Han Yu, Peng Cui
ICLR 2025
- ***SwingArena: Competitive Programming Arena for Long-context GitHub Issue Solving***
Wendong Xu*, Jing Xiong*, Chenyang Zhao, Qiujiang Chen, Haoran Wang, ..., Quanquan Gu, Ngai Wong
ICLR 2026 (Oral)
- ***OpenRLHF: An Easy-to-use, Scalable and High-performance RLHF Framework*** Core Contributor
- ***GLM-4.5: Agentic, Reasoning, and Coding (ARC) Foundation Models*** Contributor
- ***GLM-5: from Vibe Coding to Agentic Engineering*** Core Contributor

⚙️ Self Review

As an algorithm researcher, I want to build models into production. During practice, I learned that stable training demands end-to-end robustness—reliable data pipelines, fault-tolerant serving, and every infrastructure layer in between. This drove me to dig into the full stack from the ground up.

Here are the skills I have and the ones I am building:

- **Site Reliability Engineering** | Linux, Docker/Kubernetes, Catastrophic Failure Recovery, Monitoring, etc.

- **Training and Inference** | Megatron Error Troubleshooting, SGLang Performance Optimization, etc.
- **Hardware (Beginner)** | Triton-like DSLs.

Scholarship & Social Work

Research Scholarship	2025.10
Star of 9# (9 people / year in DCST, link)	2024.11
Social Work Scholarship	2024.11
Comprehensive Excellent Scholarship (Zesheng Tang Scholarship)	2023.11
• Member of Yueyan Studio, A group for teaching communication and expression skills	2023.08 – Present
• Committee in Student Q&A Forum, DCST	2023.11 – 2024.07
• Vice President of Student Association for Science and Technology, DCST	2024.07 – 2025.9