

ZHUOFENG LI



[zhuofeng-li.github.io](https://github.com/zhuofeng-li)



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[Zhuofeng Li](#)

EDUCATION

Stanford University, 450 Jane Stanford Way Stanford, CA 94305–2004

Aug, 2025 – Current

Visiting Student

Advisor: Prof. [Yejin Choi](#) and Prof. [James Zou](#)

Texas A&M University, 1226 TAMU, College Station, TX 77843

Aug, 2025 – Aug, 2030 (expected)

Ph.D. in Computer Science

Advisor: Prof. [Yu Zhang](#)

RESEARCH INTERESTS

Fields Agents, Reasoning LLMs/VLMs, Reinforcement Learning, NLP, Data Mining

RESEARCH

* indicates equal contribution

Open Source Projects

1. **In-The-Flow Agentic System Optimization for Effective Planning and Tool Use.** (150+ Stars)

Zhuofeng Li*, Haoxiang Zhang*, Seungju Han, Sheng Liu, Jianwen Xie, **Yu Zhang**, **Yejin Choi**, **James Zou**, **Pan Lu**

2. **VerlTool: A unified and easy-to-extend tool-agent training framework based on verl.** (500+ Stars)

Donfu Jiang*, **Zhuofeng Li***, Yi Lu*, Zhiheng Lv, Ping Nie, Chao Du, Tianyu Pang, **Wenhu Chen**

Preprints

1. **In-The-Flow Agentic System Optimization for Effective Planning and Tool Use.** [\[arxiv\]](#) [\[website\]](#)

Zhuofeng Li*, Haoxiang Zhang*, Seungju Han, Sheng Liu, Jianwen Xie, **Yu Zhang**, **Yejin Choi**, **James Zou**, **Pan Lu**

2. **Verltool: Towards Holistic Agentic Reinforcement Learning.** In a submission to *ICLR 2026*. [\[arXiv\]](#) [\[code\]](#)

Donfu Jiang*, Yi Lu*, **Zhuofeng Li***, Zhiheng Lv, Ping Nie, Chao Du, Tianyu Pang, **Wenhu Chen**.

3. **VideoEval-Pro: Robust and Realistic Long Video Understanding Evaluation.** In a submission to *ICLR 2025*.

4. **VideoScore2: Think before You Reward in Video Generation.** In a submission to *ICLR 2025*.

5. **ImagenWorld: Stress-Testing Image Generation Models with Explainable Human Evaluation on Open-ended Real-World Tasks.** In a submission to *ICLR 2025*.

Publications

1. **GReF: A Unified Generative Framework for Efficient Reranking via Ordered Multi-token Prediction.** *CIKM 2025*.
Zhijie Lin*, **Zhuofeng Li***, ChengLei Dai, Wentian Bao, Shuai Lin, Yun En Yu, Haoxiang Zhang, Liang Zhao
2. **Avoiding Structural Pitfalls: Self-Supervised Low-Rank Feature Tuning for Graph Test-Time Adaptation.** *TMLR 2025*.
Haoxiang Zhang*, **Zhuofeng Li***, Qiannan Zhang, Ziyi Kou, Juncheng Li, Shichao Pei.
3. **StructEval: Benchmarking LLMs’ Capabilities to Generate Structural Outputs.** *Findings of EMNLP 2025*. [\[arXiv\]](#)
4. **TEG-DB: A Comprehensive Dataset and Benchmark of Textual-Edge Graphs.** *NeurIPS 2024*. [\[arXiv\]](#)[\[code\]](#)
Zhuofeng Li*, Zixing Gou*, Xiangnan Zhang, Zhongyuan Liu, Sirui Li, Yuntong Hu, Chen Ling, Zheng Zhang, **Liang Zhao**.
5. **Learning from Novel Knowledge: Continual Few-shot Knowledge Graph Completion.** *CIKM 2024*. [\[arXiv\]](#)
Zhuofeng Li*, Haoxiang Zhang*, Qiannan Zhang, Ziyi Kou, Shichao Pei.
6. **Contrastive zero-shot relational learning for knowledge graph completion.** *Knowledge-Based Systems 2024*. [\[arXiv\]](#)

RESEARCH EXPERIENCE

Stanford University, 450 Jane Stanford Way Stanford, CA 94305–2004

Department of Computer Science Zou’s Group Choi’s xlab

June, 2025 – current

Research Assistant, Advisor: Prof. **James Zou** and Prof. **Yejin Choi**

Project: In-the-Flow Agentic System Optimization [\[arxiv\]](#) [\[website\]](#)

- Introduce AgentFlow, a trainable tool-integrated agentic system to overcome the scalability and generalization limits of today’s tool-augmented reasoning approaches.
- Pioneer a novel RL paradigm to directly optimize the agent within the system in an online fashion.
- Achieve strong performance on 10 benchmarks with a 7B backbone: +14.9% search, +14.0% agentic, +14.5% math, +4.1% scientific tasks; **surpassing larger-scale models like GPT-4o**.

University of Waterloo, 200 University Ave. West, Waterloo, Ontario

Department of Computer Science TIGER-AI-Lab

February, 2025 – current

Research Assistant, Advisor: Prof. **Wenhu Chen**

Project: Agentic Tool-Use LLMs through RL [\[arXiv\]](#) [\[code\]](#)

- Propose a novel agentic async tool-use RL training framework.
- Achieve strong performance across diverse benchmarks, including math and search tasks.
- **Open-source tool-agent training framework Verl-Tool (500+ stars now)** and submit work to ICLR 2026.

Kuaishou, Haidian District, Beijing

Machine Learning Researcher

October, 2024 – February, 2025

Project: Generative Personalized Re-ranking Recommendation

- Develop an end-to-end generative training framework for re-ranking recommendations powered by LLM, enhancing Recommendation System generalization and personalization.

- Deliver significant online gains on Kuaishou (300 M+ DAUs) and recognized as an excellent LR (launch review).
- **Accepted by CIKM 2025.**

Emory University, 201 Dowman Dr, Atlanta, GA 30322

Department of Computer Science

March, 2024 – October, 2024

Research Assistant, Advisor: Prof. [Liang Zhao](#)

Project: LLMs for Textual Graph Mining [\[arXiv\]](#) [\[code\]](#)

- Propose a novel framework for link prediction on textual-edge graphs by jointly leveraging graph topology and semantic information. The method integrates coherent document composition and LLM-enhanced self-supervised training to equip GNNs with language understanding.
- Conduct extensive experiments on four real-world datasets, demonstrating that our method boosts the performance of general GNNs and achieves competitive results compared to edge-aware GNNs.
- **Accepted by NeurIPS 2024.**

PROGRAMMING SKILLS

Proficient Verl, OpenRLHF, VLLM, Sglang, Ray, DeepSpeed, Pytorch.