

JIABAO JI

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🎓 EDUCATION

University of California, Santa Barbara, Santa Barbara, CA USA 2022.9 – Now

Ph.D. student in Computer Science, advised by **Prof. Shiyu Chang**

Expected to graduate in Winter 2026 or Spring 2027

Shanghai Jiao Tong University, Shanghai, China 2018.9 – 2022.6

B.Eng in Computer Science, advised by **Prof. Lu Chen**, **Prof. Kai Yu**, and **Prof. Yong Yu**

ACM class, an elite CS program for top 5% talented students

👤 INDUSTRY EXPERIENCE

Seed Posttrain@Bytedance, San Jose, CA USA 2026.6-2026.9

Research Intern, Host: *Yuwen Xiong* 🌐, *Lin Yan*

Topic: Agentic RL and Agent Skill Usage

CoreAI@LinkedIn, Sunnyvale, CA USA 2026.2-2026.6

Part-time Research Intern, Host: *Shiyu Chang* 🌐

Topic: Efficient Agentic LLM

AKI Team@Apple AI/ML, Seattle, WA USA 2025.6-2025.9

Research Intern, Host: *Saloni Potdar* 🌐

Topic: Ambiguity-aware Knowledge QA Data Synthesis

Llama Team@Meta GenAI, Menlo Park, CA USA 2024.6-2024.9

Research Intern, Host: *Wenhan Xiong* 🌐

Topic: Efficient long-context LLM inference

Adobe Research, San Jose, CA USA 2023.6-2023.9

Research Intern, Host: *Zhaowen Wang* 🌐

Topic: Controllable text-to-image diffusion model

🔗 PUBLICATION

‡ indicates equal contributions.

Unlearning by Construction: Auxiliary Prediction as a Path to LLM Unlearning 🌐 *Machine Unlearning for Governance of Foundation Models*, 2026

Jiabao Ji, Yujian Liu, Shiyu Chang

DEEPAMBIGQA: Ambiguous Multi-hop Questions for Benchmarking LLM Answer Completeness 🌐 *Findings of ACL 2026*

Jiabao Ji, Min Li, Priyanshu Kushmar, Shiyu Chang, Saloni Potdar

HardTests: Synthesizing High-Quality Test Cases for LLM Coding 🌐 *ICLR 2026*

Zhongmou He, Yee Man Choi, Kexun Zhang, **Jiabao Ji**, Juntong Zhou, Dejia Xu, Ivan Bercovich, Aidan Zhang, Lei Li

ThinkPrune: Pruning Long Chain-of-Thought of LLMs via Reinforcement Learning 🌐 *TMLR 2025*

Bairu Hou, Yang Zhang, **Jiabao Ji**, Yujian Liu, Kaizhi Qian, Jacob Andreas, Shiyu Chang

Defending Large Language Models against Jailbreak Attacks via Semantic Smoothing 🌐 *IJCNLP-AACL 2025*

Jiabao Ji‡, Bairu Hou‡, Alexander Robey‡, George J. Pappas, Hamed Hassani, Yang Zhang, Eric Wong, Shiyu Chang

Augment before You Try: Knowledge-Enhanced Table Question Answering via Table Expansion🐼

Findings of EMNLP 2025

Yujian Liu, **Jiabao Ji**, Tong Yu, Ryan Rossi, Sungchul Kim, Handong Zhao, Ritwik Sinha, Yang Zhang, Shiyu Chang

DFM: Dialogue Foundation Model for Universal Large-Scale Dialogue-Oriented Task Learning🐼

AI Open 2025

Zhi Chen, **Jiabao Ji**, Lu Chen, Yuncong Liu, Da Ma, Bei Chen, Mengyue Wu, Su Zhu, Jian-Guang Lou, Kai Yu

Reversing the Forget-Retain Objectives: An Efficient LLM Unlearning Framework from Logit Difference 🐼

NeurIPS 2024

Jiabao Ji, Yujian Liu, Yang Zhang, Gaowen Liu, Ramana Rao Kompella, Sijia Liu, Shiyu Chang

Advancing the Robustness of Large Language Models through Self-Denoised Smoothing🐼 *NAACL 2024*

Jiabao Ji[†], Bairu Hou[‡], Zhen Zhang[‡], Guanhua Zhang[‡], Wenqi Fan, Qing Li, Yang Zhang, Gaowen Liu, Sijia Liu, Shiyu Chang

Improving Diffusion Models for Scene Text Editing with Dual Encoders🐼 *TMLR 2023*

Jiabao Ji[†], Guanhua Zhang[‡], Zhaowen Wang, Bairu Hou, Zhifei Zhang, Brian Price, Shiyu Chang

Towards Coherent Image Inpainting Using Denoising Diffusion Implicit Models🐼 *ICML 2023*

Guanhua Zhang[‡], **Jiabao Ji**[†], Yang Zhang, Mo Yu, Tommi Jaakkola, Shiyu Chang

Controlling the Focus of Pretrained Language Generation Models 🐼 *Findings of ACL 2022*

Jiabao Ji, Yoon Kim, James Glass, and Tianxing He

WebSRC: A Dataset for Web-Based Structural Reading Comprehension 🐼 *EMNLP 2021*

Xingyu Chen, Zihan Zhao, Lu Chen, **Jiabao Ji**, Danyang Zhang, Ao Luo, Yuxuan Xiong, Kai Yu

🔗 PREPRINTS

VISUALSKILL: Multimodal Skills for Computer-Use Agents🐼 *Arxiv 2026*

Ziyan Jiang[†], Li An[†], Yujian Liu, **Jiabao Ji**, Qiucheng Wu, Yang Zhang, Jacob Andreas, Shiyu Chang

Practical Online KV Cache Compaction for LLM Agents: An Empirical Study🐼 *Arxiv 2026*

Jiabao Ji[†], Yujian Liu[†], Li An[†], Rohit Jain, Gungor Polatkan, Siyu Zhu, Shiyu Chang

Speculate While You Reason: Teaching Agents to Predict Their Next Tool Call via Joint Agent-Speculator RL🐼 *Arxiv 2026*

Jiabao Ji[†], Yujian Liu[†], Li An[†], Rohit Jain, Gungor Polatkan, Siyu Zhu, Shiyu Chang

How well do agentic skills work in the wild: Benchmarking llm skill usage in realistic settings🐼 *Arxiv 2026*

Yujian Liu[†], **Jiabao Ji**[†], Li An, Tommi Jakkola, Yang Zhang, Shiyu Chang

Navigating the Clutter: Waypoint-Based Bi-Level Planning for Multi-Robot Systems🐼 *Arxiv 2025*

Jiabao Ji, Yongchao Chen, Yang Zhang, Ramana Rao Kompella, Chuchu Fan, Gaowen Liu, Shiyu Chang

HarnessLLM: Automatic Testing Harness Generation via Reinforcement Learning🐼 *Arxiv 2025*

Yujian Liu, **Jiabao Ji**, Yang Zhang, Wenbo Guo, Tommi Jaakkola, Shiyu Chang

Collision-and Reachability-Aware Multi-Robot Control with Grounded LLM Planners🐼 *Arxiv 2025*

Jiabao Ji, Yongchao Chen, Yang Zhang, Ramana Rao Kompella, Chuchu Fan, Gaowen Liu, Shiyu Chang

ConDS: Context Distribution Shift for Robust In-Context Learning🐼 *In submission*

Shuyang Yu, Sumyeong Ahn, Siqi Liang, Bairu Hou, **Jiabao Ji**, Shiyu Chang, Jiayu Zhou

HONORS AND AWARDS

Zhiyuan Honorary Scholarship, Top 5% in SJTU

2018 - 2021

SJTU School-level Scholarship

2018 - 2021

SERVICES

- **Reviewer:** ICML'23, 24, 25, 26; Neurips'23, 24, 25; ICLR'24, 25, 26; CVPR'24, 25, 26; WACV'26; ICCV' 25, ACL'24; COLM'24, 25; ARR 24 Dec, 25 May, 25 July, 25 Oct
- **Workshop reviewer:** Neurips'24 AdvML-Frontiers; RSS'25 FM4RoboPlan
- **TA:** CSW8-W23, F25; CS190I-W23,W24; CS165B-S22,S24

SKILLS

- **Programming Languages:** C/C++, Python, Java
- **Deep Learning Packages:** PyTorch
- **Others:** Git, L^AT_EX, Linux