

EDUCATION

Beihang University (BUAA)

Sep. 2023 - Jan. 2026 (expected)

M.S. in Computer Technology, School of Computer Science and Engineering

Beijing, China

Supervisor: Zhoujun Li; [Google Scholar](#) Citation: 136 ; GPA: 86.32

Xiangtan University (XTU)

Sep. 2019 - Jun. 2023

B.E. in Computer Science and Technology, School of Computer Science

Xiangtan, Hunan, China

Rank: 2 / 88 ; GPA: 88.65

SELECTED PAPER

BitsAI-CR: Automated Code Review via LLM in Practice.

FSE 2025 Industry Track

- **Authors:** **Tao Sun**, Jian Xu, Yuanpeng Li, Zhao Yan, Ge Zhang, Lintao Xie, Lu Geng, Zheng Wang, Yueyan Chen, Qin Lin, Wenbo Duan, Kaixin Sui.
- Posted by [Synced / 机器之心](#), a [Top AI media in China](#). Invited by the CTO of SHEIN for an internal discussion.
- **Motivation:** Recognized the inefficiency and low precision of traditional and LLM-based **Code Review** processes in large-scale development, highlighting the need for a systematic and continuously improving solution.
- **Solution:** Designed a two-stage LLM pipeline leveraging a taxonomy of review rules and a data flywheel with Outdated Rate metrics, resulting in high-precision, continuously optimized code review adopted at scale in ByteDance.

UniCoder: Scaling Code Large Language Model via Universal Code.

ACL 2024 Main Conference

- **Authors:** **Tao Sun***, Linzheng Chai*, Jian Yang*, Yuwei Yin, Hongcheng Guo, Jiaheng Liu, Bing Wang, Liquan Yang, Zhoujun Li.
- **Motivation:** Addressed limitations in **Code Generation** by introducing a language-agnostic universal code (UniCode) to bridge natural language and executable code.
- **Solution:** Demonstrated that using UniCode as an intermediate step with multi-task learning and and purpose-built 140K-sample dataset significantly boosts code generation performance.

BitsAI-P2P: Automated Paper-to-Poster Generation and Fine-Grained Benchmark

ICLR 2025

Workshop, NIPS 2025 under review

- **Authors:** **Tao Sun**, Enhao Pan, Zhengkai Yang, Kaixin Sui, Jiajun Shi, Xianfu Cheng, Ge Zhang, Wenhao Huang, Tongling Li, Jian Yang, Zhoujun Li.
- Designed a multi-agent system for academic poster generation, implementing figure extraction, text synthesis, and **HTML Code Generation**, validated through 121 paper-poster benchmarks with fine-grained evaluations.

INTERNSHIP EXPERIENCE

ByteDance Inc. - Beijing, China

Sep. 2024 - Present

- **Position:** Research Intern (Full-time, Onsite, Paid)
- Participated in development of the programming assistant for **Cici** (豆包编程助手), China's leading LLM application.
- Spearheaded the development of code intent recognition systems and code models for Cici (豆包).
- Involved in the construction of the internal Code Review system.

Meituan Inc. - Beijing, China

Mar. 2024 - Aug.2024

- **Position:** Research Intern (Full-time, Onsite, Paid)
- Conducted research and testing on Meituan's in-house Large Language Model, primarily focusing on enhancing the code expert model's capabilities in code repository-level completion and automated repair.
- Explored the application of LLM in the field of software engineering, including their abilities in handling long texts, code planning and testing.

PROJECT

Research Projects in Progress

- **First Author:** *BitsAI-C²R: Benchmarking, Automating, and Training Customized Code Review* (coming soon)

- **Collaborator:** [Windrecorder\(Github 3215 Stars\)](#) is a memory search app that records everything on your screen, to let you rewind what you have seen, query through OCR text or image description, and get activity statistics.
- **Owner:** [myRime\(Github 123 Stars\)](#) is a customized input method utilizing the Rime engine, suitable for use with Flypy Double Pinyin (Xiaohe Shuangpin), Luna Pinyin, iBus, Feitx, Windows and MacOS.

★ SELECTED HONORS AND AWARDS

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| • China National Scholarship | 2024 |
| • The First Prize Scholarship (Awarded by Beihang University) | 2024 |
| • The Second Prize Scholarship (Awarded by Beihang University) | 2023 |
| • Pacemaker to Merit Student (Awarded by Xiangtan University, Top 2‰ in School) | 2021 |
| • The Jingdong Scholarship (Awarded by Jingdong Inc.) | 2022 |
| • The First Prize Scholarship (Awarded by Xiangtan University, Top 7‰ in School) | 2020 & 2021 & 2022 |
| • Bronze Medal of 2021 ICPC Asia Regional Contest (Awarded by ICPC Foundation) | Nov. 2021 |
| • Silver Medal of 2021 CCPC National Invitational Contest (Awarded by Committee for CCPC) | Jun. 2021 |
| • Bronze Medal of 2021 CCPC Guilin Site Contest (Awarded by Committee for CCPC) | Nov. 2021 |
| • The First Prize of CUMCM in Hunan Division (Awarded by CSIAM) | Oct. 2021 |

🗨 SERVICE

Teaching Assisiant

- *Algorithm Training Team for ACM-ICPC*, School of Computer Science, Xiangtan University. Summer 2020

Reviewer

- CIKM 2024, ICONIP 2024

✍ PUBLICATIONS & PAPERS IN PREPARATION

- **Tao Sun**, Jian Xu, Yuanpeng Li, Zhao Yan, Ge Zhang, Lintao Xie, Lu Geng, Zheng Wang, Yueyan Chen, Qin Lin, Wenbo Duan, Kaixin Sui. *BitsAI-CR: Automated Code Review via LLM in Practice*. arxiv: 2501.15134. **FSE 2025 Industry Track**.
- **Tao Sun***, Linzheng Chai*, Jian Yang*, Yuwei Yin, Hongcheng Guo, Jiaheng Liu, Bing Wang, Liqun Yang, Zhoujun Li. *UniCoder: Scaling Code Large Language Model via Universal Code*. **ACL 2024 Main Conference**.
- **Tao Sun**, Dongsu Shen, Saiqin Long, Qingyong Deng, Shiguo Wang. *Neural Distinguishers on TinyJAMBU-128 and GIFT-64*. **ICONIP 2022 Oral**.
- **Tao Sun**, Yang Yang, Xianfu Cheng, Jian Yang, Yintong Huo, etc. *RepoFix: Real-World Repository-Level Code Evaluation: From Issue Detection to Bug Localization and Fixes*. Under Review.
- Linzheng Chai*, Shukai Liu*, Jian Yang*, Yuwei Yin, Ke Jin, Jiaheng Liu, **Tao Sun**, Ge Zhang, Changyu Ren, Hongcheng Guo, Zekun Wang, Boyang Wang, Xianjie Wu, Bing Wang, Tongliang Li, Liqun Yang, Sufeng Duan, Zhoujun Li. *McEval: Massively Multilingual Code Evaluation*. arXiv 2406.07436. **ICLR 2025**.
- Linzheng Chai, Jian Yang, **Tao Sun**, Hongcheng Guo, Jiaheng Liu, Bing Wang, Xiannian Liang, Jiaqi Bai, Tongliang Li, Qiyao Peng, Zhoujun Li. *xCOT: Cross-lingual Instruction Tuning for Cross-lingual Chain-of-Thought Reasoning*. arXiv: 2401.07037. **AAAI 2025**.
- Jiaheng Liu*, Zehao Ni*, Haoran Que*, **Tao Sun**, Zekun Wang, Jian Yang, Jiakai Wang, Hongcheng Guo, Zhongyuan Peng, Ge Zhang, Jiayi Tian, Xingyuan Bu, Ke Xu, Wenge Rong, Junran Peng, Zhaoxiang Zhang. *RoleAgent: Building, Interacting, and Benchmarking High-quality Role-Playing Agents from Script*. **NIPS 2024**.
- Xianfu Cheng*, Hang Zhang*, Jian Yang, Xiang Li, Weixiao Zhou, Kui Wu, Fei Liu, Wei Zhang, **Tao Sun**, Tongliang Li and Zhoujun Li. *XFormParser: Semi-structured Form Parser with multimodal and multilingual knowledge*. arXiv: 2405.17336. **COLING 2025**.
- Xianfu Cheng, Weixiao Zhou, Xiang Li, Jian Yang, Hang Zhang, **Tao Sun**, Wei Zhang, Yuying Mai, Tongliang Li, Xiaoming Chen and Zhoujun Li. *SVIPTR: Fast and Efficient Scene Text Recognition with Vision Permutable Extractor*. **CIKM 2024**.
- Shukai Liu*, Linzheng Chai*, Jian Yang*, Jiajun Shi, He Zhu, Liran Wang, Ke Jin, Wei Zhang, Hualei Zhu, Shuyue Guo, **Tao Sun**, Jiaheng Liu, Yunlong Duan, Yu Hao, Liqun Yang, Guanglin Niu, Ge Zhang, Zhoujun Li. *MdEval: Massively Multilingual Code Debugging*. arXiv 2411.02310. Under Review.
- Shun Zhang, Yan Chaoran, Jian Yang, Hongcheng Guo, Jiaheng Liu, Guanglin Niu, Ge Zhang, Linzheng Chai, **Tao Sun**, Tongliang Li, Liqun Yang, Zhoujun Li. *INTENTLLM: An Effective Paradigm for New Intent Discovery in the Era of Large Language Models*. Under Review.
- Yinghao Zhu*, Changyu Ren*, Shiyun Xie, Shukai Liu, Hangyuan Ji, Zixiang Wang, **Tao Sun**, Long He, Zhoujun Li, Xi Zhu, Chengwei Pan. *REALM: RAG-Driven Enhancement of Multimodal Electronic Health Records Analysis via Large Language Models*. arXiv:2402.07016. Under Review.