Junle Chen

PhD Student in Computer Science and Engineering

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Research Profile

PhD student in Computer Science and Engineering at The Hong Kong University of Science and Technology (HKUST), advised by Professor Xiaofang Zhou. My research focuses on interaction and context management for LLM agents, enabling them to maintain user intent and task goals across multi-turn, long-horizon interactions.

Education

The Hong Kong University of Science and Technology (HKUST) Sep 2025 - Present

PhD in Computer Science and Engineering; Advisor: Prof. Xiaofang Zhou

Harbin Institute of Technology Sep 2021 - Jun 2025

Bachelor of Computer Science and Technology, School of Future Technology (formerly Honor School)

Research Interests

Interaction and Context Management for LLM Agents, with emphasis on:

- **User Interaction**: Tracking user intent and preference changes in multi-turn dialogue.
- **Environment Interaction**: Maintaining user intent and task goals throughout long-horizon execution.

Publications

[1] **Junle Chen**, Wei Chen, Zhengjun Huang, Zhoujin Tian, Yuxuan Liu, Kai Wang, Rui Chen, and Xiaofang Zhou. **You Changed Your Mind, The Model Didn't: Demystifying Intent in Multi-Turn Dialogue**. arXiv:2610.06496, 2026.

[2] **Junle Chen**, Wei Chen, Yehong Xu, Zhengjun Huang, Yuqian Wu, Zhoujin Tian, Kai Wang, Rui Chen, and Xiaofang Zhou. **Trip+: Benchmarking Agents in Personalized Interactive Travel Planning**. **EMNLP 2026 (Main)**.

[3] Wei Chen, **Junle Chen**, Yitong Yang, Zhaoyang Xu, Jiaxin Lin, Yuxuan Liang, Xiaofang Zhou, Kai Wang, and Rui Chen. **Flash-OPD: Fast On-Policy Distillation**. arXiv:2610.06105, 2026.

[4] Yuxuan Liu, Haoran Li, Yuhao Zhang, Jiahe Guo, Hongyu Luo, Wenbin Hu, Huihao Jing, Kawai Chung, **Junle Chen**, Changxuan Fan, Qing Zong, Lingyun Xie, and Yangqiu Song. **SkillScriptBench: Benchmarking Self-Evolution of Executable Agent Skill Packages Beyond Markdown**. arXiv:2610.04008, 2026.

[5] Zhengjun Huang, Wenxuan Liu, Zhoujin Tian, Wei Chen, **Junle Chen**, Yuqian Wu, Fangyuan Zhang, Qintian Guo, and Xiaofang Zhou. **M^{3}Exam: Benchmarking Multimodal Memory for Realistic User-Agent Interactions**. arXiv:2606.07402, 2026.

[6] Yuqian Wu, Zhijie Deng, Wei Chen, Junwei Li, Yutian Jiang, **Junle Chen**, Zhengjun Huang, Qingxiang Liu, Jing Tang, Jiaheng Wei, and Yuxuan Liang. **LifeSide: Benchmarking Agents as Lifelong Digital Companions**. arXiv:2606.04660, 2026.

[7] Yuqian Wu, Wei Chen, Zhengjun Huang, **Junle Chen**, Qingxiang Liu, Kai Wang, Xiaofang Zhou, and Yuxuan Liang. **Back to Basics: Let Conversational Agents Remember with Just Retrieval and Generation**. **COLM 2026**.

[8] Wei Chen, Yuqian Wu, **Junle Chen**, Xiaofang Zhou, and Yuxuan Liang. **UrbanFM: Scaling Urban Spatio-Temporal Foundation Models**. **KDD 2026 Oral**.

[9] Wei Chen, **Junle Chen**, Yuqian Wu, Yuxuan Liang, and Xiaofang Zhou. **Learning from Complexity: Exploring Dynamic Sample Pruning of Spatio-Temporal Training**. arXiv:2602.19113, 2026.

[10] Jian Chen†, **Junle Chen**†, Donghua Yang, Guangyu Sui, Jinbao Wang, and Lina Chen. **Adaptive Indexing for Coverage Queries over Transition Trajectories**. **World Wide Web, 2025**.

[11] Jian Chen, Hong Gao, Yuhong Shi, **Junle Chen**, Donghua Yang, and Jianzhong Li. **Maximizing Influence Query over Indoor Trajectories**. **IEEE Transactions on Knowledge and Data Engineering (TKDE), 2025**.

[12] Jian Chen, **Junle Chen**, Hong Gao, Donghua Yang, and Kaiqi Zhang. **Efficient Coverage Query over Transition Trajectories**. **APWeb-WAIM, 2024**.

† Co-first author.

Honors and Awards

- HKUST Postgraduate Studentship (PGS)
- National Scholarship (2022-2023)
- Finalist in the Mathematical Contest in Modeling (MCM), USA
- Outstanding Student Award (Provincial Level)
- Outstanding Graduate of Harbin Institute of Technology
- HKUST RedBird PhD Scholarship
- First-Class People's Scholarship (awarded each semester)
- First Prize in College Mathematics Competition
- Outstanding Graduate of Heilongjiang Province

Research Experience

LAMDA, Nanjing University Jul 2023

AI Cloud-Based Scientific Research with Data-Driven Knowledge; Project Experience