

Runchu Tian

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EDUCATION

University of Illinois Urbana-Champaign GPA: 4.00/4.00
Master of Science in Computer Science from Thomas M. Siebel Center for Computer Science Sep. 2024 - Present

Tsinghua University GPA: 3.85/4.00
Bachelor of Science in Mathematics and Physics Sep. 2020 - Jun. 2024

RESEARCH EXPERIENCE

University of Illinois Urbana-Champaign, Data Mining Group

Adviser: Jiawei Han, Michael Aiken Chair Professor, Founder of of ACM SIGKDD

Title: *Beyond True or False: Retrieval-Augmented Hierarchical Analysis of Nuanced Claims* Under Review for ACL 2025

Authors: Priyanka Kargupta, **Runchu Tian**, Jiawei Han

Contribution: Proposed A RAG framework for multi-aspect, corpus-supported nuanced claim analysis. Oct. 2024 - Feb 2025

Tsinghua University, Natural Language Processing Lab

Adviser: Zhiyuan Liu, Associate Professor, Department of Computer Science and Technology

Title: *Debugbench: Evaluating debugging capability of large language models* ACL 2024

Authors: **Runchu Tian**, Yining Ye, Yujia Qin, Xin Cong, Yankai Lin, Yinxi Pan, Yesai Wu, Haotian Hui, Weichuan Liu, Zhiyuan Liu, Maosong Sun

Contribution: Constructed a benchmark with real data to evaluate LLMs' debugging capability. Sept. 2023 - Feb 2024

Title: *Distance between Relevant Information Pieces Causes Bias in Long-Context LLMs* Under Review for ACL 2025

Authors: **Runchu Tian**, Yanghao Li, Yuepeng Fu, Siyang Deng, Qinyu Luo, Cheng Qian, Shuo Wang, Xin Cong, Zhong Zhang, Yesai Wu, Yankai Lin...

Contribution: Discussed a new type of positional bias in long-context LLMs. May. 2024 - Aug. 2024

Title: *ToolLLM: Facilitating Large Language Models to Master 16000+ Real-world API* ICLR 2024 spotlight

Authors: Yujia Qin, Shihao Liang, Yining Ye, Kunlun Zhu, Lan Yan, Yaxi Lu, Yankai Lin, Xin Cong, Xiangru Tang, Bill Qian, Sihan Zhao, Lauren Hong, **Runchu Tian**, Ruobing Xie, Jie Zhou, Mark Gerstein, Dahai Li, Zhiyuan Liu, Maosong Sun

Contribution: Proposed a framework to train LLMs for comprehensive tool use ability. March. 2023 - June 2023

Title: *Tool Learning with Foundation Models* ACM Computing Surveys

Authors: Yujia Qin, Shengding Hu, Yankai Lin, Weize Chen, Ning Ding, Ganqu Cui, Zheni Zeng, Yufei Huang, Chaojun Xiao, Chi Han, Yi Ren Fung, Yusheng Su, Huadong Wang, Cheng Qian, **Runchu Tian**, Kunlun Zhu, Shihao Liang, Xingyu Shen ...

Contribution: Reviewed the literature in Tool Learning and LLM Agent. Jan. 2023 - May 2023

Title: *Exploring Format Consistency for Instruction Tuning* TMLR

Authors: Shihao Liang, **Runchu Tian**, Kunlun Zhu, Yujia Qin, Huadong Wang, Xin Cong, Zhiyuan Liu, Xiaojiang Liu, Maosong Sun

Contribution: Explored the effect of different format in instruction tuning. Jan. 2023 - June 2023

HONORS AND AWARDS

Tsinghua University Academic Excellence Scholarship (Twice) 2021/2022