Zirui Cheng Curriculum Vitae

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Education

University of Illinois Urbana-Champaign, *Urbana-Champaign, IL* 2024 - 2026 (Expected)
M.S. in Computer Science

Tsinghua University, *Beijing, China* 2019 - 2024
B.Eng. in Computer Science and Technology (major)
B.Econ. in Economics and Finance (minor)

Research Interests

Machine Learning; Human-Computer Interaction.

Publications

Peer-Reviewed Papers

[4] **How Far Are We From AGI?**
Tao Feng*, Chuanyang Jin*, Jingyu Liu*, Kunlun Zhu*, Haoqin Tu, Zirui Cheng, Guanyu Lin, Jiaxuan You. (* indicates co-first author)
TMLR 2024 – *Transactions of Machine Learning Research*.

[3] **Wikibench: Community-Driven Data Curation for AI Evaluation on Wikipedia**
Tzu-Sheng Kuo, Aaron Halfaker, Zirui Cheng, Jiwoo Kim, Meng-Hsin Wu, Sherry Tongshuang Wu, Kenneth Holstein, Haiyi Zhu.
CHI 2024 – *2024 ACM CHI Conference on Human Factors in Computing Systems*.

[2] **TreeQuestion: Assessing Conceptual Learning Outcomes with LLM-Generated Multiple-Choice Questions**
Zirui Cheng, Jingfei Xu, Haojian Jin.
CSCW 2024 – *2024 ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing*.

[1] **Modeling the Trade-off of Privacy Preservation and Activity Recognition on Low-Resolution Images**
Yuntao Wang*, Zirui Cheng*, Xin Yi, Yan Kong, Xueyang Wang, Xuhai Xu, Yukang Yan, Chun Yu, Shwetak Patel, Yuanchun Shi. (* indicates co-first author)
CHI 2023 – *2023 ACM CHI Conference on Human Factors in Computing Systems*.

Preprints

[1] **TeacherLM: Teaching to Fish Rather Than Giving the Fish, Language Modeling Likewise**
Nan He*, Hanyu Lai*, Chenyang Zhao*, Zirui Cheng, Junting Pan, Ruoyu Qin, Ruofan Lu, Rui Lu, Yunchen Zhang, Gangming Zhao, Zhaohui Hou, Zhiyuan Huang, Shaoqing Lu, Ding Liang, Mingjie Zhan. (* indicates co-first author)
arXiv:2310.19019, 2023.

Projects

[1] **Research Town: Simulator of Research Community**
A multi-agent platform for simulating community-level automatic research.
Core contributor. GitHub: `https://github.com/ulab-uiuc/research-town`.

Research Experience

University of Illinois Urbana-Champaign, *Champaign, IL* — 2024 Spring - Now
Research Assistant at Siebel School of Computing and Data Science
Advisor: **Jiaxuan You**
Topics: Large Language Models, Graph Machine Learning

Carnegie Mellon University, *Pittsburgh, PA* — 2023 Summer
Research Intern at Human-Computer Interaction Institute
Tsinghua University - Carnegie Mellon University Summer Program
Advisor: **Ken Holstein**, **Haiyi Zhu**
Topics: Human-AI Interaction, Social Computing

University of California San Diego, *La Jolla, CA* — 2023 Spring
Research Intern at Halıcıoğlu Data Science Institute
Advisor: **Haojian Jin**
Topics: Human-AI Interaction, Computer-Supported Cooperative Work

Tsinghua University, *Beijing, China* — 2022 Spring - 2024 Spring
Research Assistant at Department of Computer Science and Technology
Advisor: **Yuntao Wang**, **Yuanchun Shi**
Topics: Human-AI Interaction, Ubiquitous Computing

Teaching Experience

Deep Learning with Graphs — 2024 Fall
University of Illinois Urbana Champaign, CS598
Instructor: Jiaxuan You

Industry Experience

SenseTime Research, *Beijing, China* — 2022 Autumn
Research Intern at Natural Language Processing Group
Topics: Large Language Models, Complex Reasoning

Honors

Outstanding Graduate Award, Department of Computer Science and Technology, Tsinghua University — 2024

Research Excellence Scholarship, Tsinghua University — 2023

Social Service Excellence Scholarship, Tsinghua University — 2022 - 2023

Academic Performance Excellence Scholarship, Tsinghua Univeristy — 2021

Comprehensive Excellence Scholarship, Tsinghua University — 2020

Freshmen Scholarship, Tsinghua University — 2019

Skills

Programming Skills

Programming Languages: Python, C/C++, JavaScript/CSS/HTML, Java, R, Matlab, Verilog, VHDL, Rust.

Language Skills

Chinese: native in Mandarin, fluent in Wu, Yue.

English: fluent, TOEFL 105.

German: basic, equivalently CEFR A2.