

Zirui Cheng

Curriculum Vitae

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Education

- 2024 - Now **University of Illinois Urbana-Champaign, Champaign, IL**
M.S. in Computer Science
Advisor: Jiaxuan You
- 2019 - 2024 **Tsinghua University, Beijing, China**
B.Eng. in Computer Science and Technology (major)
B.Econ. in Economics and Finance (minor)

Interests

Machine Learning, Human-Computer Interaction.

Publications

Peer-Reviewed Papers

- [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

- [2] **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)
arXiv:2405.10313, 2024.

[1] **TeacherLM: Teaching to Fish Rather Than Giving the Fish, Language Modeling Likewise**

Nan He*, Hanyu Lai*, Chenyang Zhao*, Zirui Cheng, Juntong 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.

Experiences

- 2024 Spring - **University of Illinois Urbana-Champaign, Champaign, IL**
Now Research Assistant at Department of Computer Science
Advisor: Jiaxuan You
Topics: Large Language Models, Language Agents
- 2023 **Carnegie Mellon University, Pittsburgh, PA**
Summer Research Intern at Human-Computer Interaction Institute
Advisor: Ken Holstein, Haiyi Zhu, Tzu-Sheng Kuo
Topics: Human-AI Interaction, Community-Centered AI
- 2023 Spring **University of California San Diego, La Jolla, CA**
Research Intern at Halicioğlu Data Science Institute
Advisor: Haojian Jin
Topics: Human-AI Interaction, Educational Technology
- 2022 **SenseTime Research, Beijing, China**
Autumn Research Intern at Natural Language Processing Group
Topics: Large Language Models, Complex Reasoning
- 2022 Spring - **Tsinghua University, Beijing, China**
2024 Spring Research Assistant at Department of Computer Science and Technology
Advisor: Yuntao Wang
Topics: Ubiquitous Computing, Usable Privacy & Security

Teaching

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

Honors

- 2024 **Outstanding Graduate Award**, Department of Computer Science and Technology, Tsinghua University
- 2023 **Research Excellence Scholarship**, Tsinghua University
- 2022 - 2023 **Social Service Excellence Scholarship**, Tsinghua University
- 2021 **Academic Performance Excellence Scholarship**, Tsinghua University
- 2020 **Comprehensive Excellence Scholarship**, Tsinghua University
- 2019 **Freshmen Scholarship**, Tsinghua University

Skills

Programming Skills

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.