

ZIRUI CHENG

CURRICULUM VITAE

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EDUCATION

University of Illinois Urbana-Champaign, Champaign, IL

2024 - 2026 (Expected)

M.S. in Computer Science

Advisor: Jiaxuan You

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.
TMLR 2024 – *Transactions of Machine Learning Research* (* indicates co-first author).
- [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, 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.

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 Research Assistant at Siebel School of Computing and Data Science Advisor: Jiaxuan You Topics: Large Language Models, Graph Machine Learning	2024 Spring - Now
Carnegie Mellon University, Pittsburgh, PA Research Intern at Human-Computer Interaction Institute <i>Tsinghua University - Carnegie Mellon University Summer Program</i> Advisor: Ken Holstein, Haiyi Zhu Topics: Human-AI Interaction, Social Computing	2023 Summer
University of California San Diego, La Jolla, CA Research Intern at Halicioğlu Data Science Institute Advisor: Haojian Jin Topics: Human-AI Interaction, Educational Technology	2023 Spring
Tsinghua University, Beijing, China Research Assistant at Department of Computer Science and Technology Advisor: Yuntao Wang, Yuanchun Shi Topics: Human-AI Interaction, Ubiquitous Computing	2022 Spring - 2024 Spring

TEACHING EXPERIENCE

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

SenseTime Research, Beijing, China Research Intern at Natural Language Processing Group Topics: Large Language Models, In-Context Learning	2022 Autumn
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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 University	2021
Comprehensive Excellence Scholarship , Tsinghua University	2020
Freshmen Scholarship , Tsinghua University	2019

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.