

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, 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: Language Agents, 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 Halicioğlu 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, In-Context Learning

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

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.