

# Zirui Cheng

## Curriculum Vitae

Mobile: +86 15751375486  
Email: zirui4@illinois.edu  
Homepage: chengzr01.github.io

### 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, Natural Language Processing.

### 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.

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## 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

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## Teaching

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

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## 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

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## 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.