

# Zirui Cheng

## Curriculum Vitae

30 Shuangqing Road, Beijing, China  
☎ +86 15751375486  
✉ [chengzr19@mails.tsinghua.edu.cn](mailto:chengzr19@mails.tsinghua.edu.cn)  
🌐 [chengzr01.github.io](https://github.com/chengzr01)

### Education

2019-2024 **Tsinghua University, Beijing, China**  
(Expected) B.E. in Computer Science and Technology  
B.A. in Economics and Finance  
GPA: 3.86/4.00

### Interests

Machine Learning, Natural Language Processing, Human-Computer Interaction.

### Publications

#### Peer-Reviewed Papers

- [2] **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.**
- [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.**

#### Under-Review Papers

- [1] **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.**

#### 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.

---

## Experience

- 2023 **Carnegie Mellon University, Pittsburgh, PA**  
Research Intern at Human-Computer Interaction Institute  
Advisors: Kenneth Holstein, Haiyi Zhu, Sherry Tongshuang Wu  
Topics: Community-Centered AI, Human-AI Interaction, Participatory Design
- 2023 **University of California San Diego, La Jolla, CA**  
Research Intern at Halicioğlu Data Science Institute  
Advisors: Haojian Jin  
Topics: Human-AI Interaction, Large Language Models, Educational Technology
- 2022 **SenseTime Research, Beijing, China**  
Research Intern at Natural Language Processing Group  
Topics: Large Language Models, Complex Reasoning, Instruction Finetuning
- 2022 **Tsinghua University, Beijing, China**  
Research Intern at Department of Computer Science and Technology  
Advisors: Yuntao Wang  
Topics: Privacy and Security, Computer Vision, Ubiquitous Computing

---

## Honors

- 2020 Comprehensive Excellence Scholarship (*top 10% among all students*), Tsinghua University
- 2019 Freshmen Scholarship (*top 10% among all students*), Tsinghua University

---

## Skills

### Technical Skills

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

*Machine Learning:* PyTorch, TensorFlow.

*Web Framework:* React, Vue, Django, Flask.

### Language Skills

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

*English:* fluent, TOEFL 105.

*German:* basic.