

Zirui Cheng

Curriculum Vitae

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Education

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

- [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.

Experience

- 2023 **Carnegie Mellon University**, *Pittsburgh, PA*
Research Intern at Human-Computer Interaction Institute
Advisor: Ken Holstein, Haiyi Zhu, Sherry Tongshuang Wu
Topics: Human-AI Interaction, Community-Centered AI, Participatory Design
- 2023 **University of California San Diego**, *La Jolla, CA*
Research Intern at Halicioğlu Data Science Institute
Advisor: 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
Advisor: Yuntao Wang
Topics: Ubiquitous Computing, Privacy and Security, Computer Vision

Honors

- 2023 Research Excellence Scholarship, Tsinghua University
- 2022 Social Service Excellence Scholarship, Tsinghua University
- 2021 Academic Performance Excellence Scholarship, Tsinghua University
- 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.