

ZIRUI CHENG

Department of Computer Science and Technology
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CURRICULUM VITAE

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EDUCATION

Tsinghua University

B.E. in Computer Science and Technology
B.A. in Economics and Finance
GPA: 3.86/4.00

2024 (Expected)

Beijing, China

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**, 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

Carnegie Mellon University

Research Intern at Human-Computer Interaction Institute
Advisor: Kenneth Holstein

2023

Pittsburgh, PA, USA

University of California San Diego

Research Intern at Halicioğlu Data Science Institute
Advisor: Haojian Jin

2023

La Jolla, CA, USA

SenseTime Research

Research Intern at Natural Language Processing Group

2022

Beijing, China

Tsinghua University

Research Intern at Department of Computer Science and Technology
Advisor: Yuntao Wang

2022

Beijing, China

HONORS

Research Excellence Scholarship, Tsinghua University, 2023
Social Service Excellence Scholarship, Tsinghua University, 2023 & 2022
Academic Performance Excellence Scholarship, Tsinghua University, 2021
Comprehensive Excellence Scholarship (top 10% among all students), Tsinghua University, 2020
Freshmen Scholarship (top 10% among all students), Tsinghua University, 2019

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.

Language Skills

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

English: fluent, TOEFL 105.

German: basic, CEFR A2 level.