Zirui Cheng

Curriculum Vitae

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Education

2024
(Expected)
Tsinghua University, *Beijing, China*
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**, 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 Halıcıoğlu 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 Univeristy

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.