Huiqi Zou

Email: hzou11@jhu.edu — Web: https://annazou1103.github.io

EDUCATION

Johns Hopkins University

M.Sc.Eng in Computer Science

City University of Hong Kong

B.Sc. in Computer Science with First Class Honors

PUBLICATIONS & MANUSCRIPTS (*: equal authorship)

Preprints

- Y. Li*, H. Zou*, and Z. Xiao. Contextualized Evaluation of Vision Language Models through Dynamic Interaction. (2025). (In Preparation)
- P. Wang, H. Zou, H. Chen, T. Sun, Z. Xiao, and F. Oswald. (2025). Personality Structured Interview for Large Language Model Simulation in Personality Research. arXiv preprint arXiv.2502.12109. (Under Review).
- H. Zou, P. Wang, Z. Yan, T. Sun, and Z. Xiao. (2024). Can LLM "Self-report"?: Evaluating the Validity of Self-report Scales in Measuring Personality Design in LLM-based Chatbots. arXiv preprint arXiv:2412.00207. (Under Review).
- P. Wang, H. Zou, Z. Yan, F. Guo, T. Sun, Z. Xiao, and B. Zhang. (2024). Not Yet: Large Language Models Cannot Replace Human Respondents for Psychometric Research. OSF Preprints. osf.io/rwy9b. (Under Review).
- X. Ma, Y. Li, J. Keung, X. Yu, H. Zou, Z. Yang, F. Sarro, and E. T. Barr. (2024). Practitioners' Expectations on Log Anomaly Detection. arXiv preprint arXiv:2412.01066. (Under Review).

Publications

- Y. Li*, H. Zou*, and Z. Xiao. (2024). Towards Dynamic and Realistic Evaluation of Multi-modal Large Language Model. (Extended Abstract). GenBench workshop at EMNLP.
- X. Ma, H. Zou, P. He, J. Keung, Y. Li, X. Yu, and F. Sarro. (2024). On the Influence of Data Resampling for Deep Learning-Based Log Anomaly Detection: Insights and Recommendations. IEEE Transactions on Software Engineering, 1–18.
- X. Ma, J. Keung, X. Yu, H. Zou, J. Zhang, and Y. Li. (2023). AttSum: A deep attention-based summarization model for bug report title generation. IEEE Transactions on Reliability, 72(4), 1663-1677.
- Z. Liu*, Y. Qin*, H. Zou*, E. J. Paek, D. Casenhiser, W. Zhou, and X. Zhao. (2022). Generating Natural Language Responses in Robot-Mediated Referential Communication Tasks to Simulate Theory of Mind. In International Conference on Social Robotics, 100-109.

RESEARCH EXPERIENCE

ISLE Lab, Johns Hopkins University

Oct. 2023 - present

Advisor: Prof. Ziang Xiao

Interactive Evaluation of LLM-based Chatbots

- Developed a dataset containing human conversations with 500 distinct chatbot personalities, alongside human perception ratings of each chatbot's personality.
- Identified validity concerns in adopting self-report personality scales for evaluating LLM-based chatbot personalities by comparing self-reported scores with human-perceived scores and usability metrics.

Dynamic Evaluation of Hallucinations in Vison-Language Models

- Developed a multimodal LLM-based evaluator for vision-language model hallucination detection within a simulated human-computer interaction environment.
- Implemented a context and question generation module to mimic human-like questioning while assuring an appropriate level of difficulty and diversity in question types.

Aug. 2023 - Dec. 2024

Aug. 2019 - June 2023

AI² Lab, City University of Hong Kong

Advisor: Prof. Linqi Song

Artificial Intelligence for Affective Computing

- Adopted RetinaFace and Swin Transformer V2 for multifaceted expression recognition.
- Trained the facial expression recognition model with fine-grained manifold distillation loss to reduce computational complexity while maintaining performance.

National Institute for Computational Sciences, University of Tennessee

Advisors: Prof. Xiaopeng Zhao and Dr. Kwai Lam Wong

- Human-Robot Collaborative Interaction Using Referential Expression • Collaborated with a team of two to integrate referential communication into feedback strategies, en-
- hancing robot behaviors explainability and leveraging theory of mind to model human understanding. • Developed a BERT-based dialogue system that extracts human perception from responses to generate contextually relevant feedback in referential communication tasks.

AiSE Research Group, City University of Hong Kong

Advisor: Prof. Jacky Keung

Automatic Generation of Issue Titles for Bug Reports

- Collaborated with a PhD student to develop an attention-based summarization model using a RoBERTa encoder and Transformer decoder structure to generate high-quality bug report titles.
- Integrated a copy mechanism into the framework to address the issue of rare token in bug report titles.

WORK EXPERIENCE

City University of Hong Kong, Research Assistant

• Conducted sentiment and readability analysis on annual financial reports.

Siemens Limited (Hong Kong), Intern

• Developed the frontend of an Android app to engage audiences in science-related events.

• Maintained and updated an Angular website with a MongoDB-backed server for resource management.

TEACHING & SERVICE

Course Assistant, Johns Hopkins University Fall 2024 Assisted in EN.601.467/667 Introduction to Human Language Technology, by holding weekly office hours, grading assignments and exams, and supporting student learning.

Student Mentor, City University of Hong Kong Fall 2022 - Spring 2023 Organized activities and provided personalized guidance to help freshmen and junior students adapt to university life and plan their academic journey.

Volunteer Teacher, TECC (HK)

Jan. 2021 - Apr. 2021 Developed and taught an online math curriculum for primary school students in less developed areas.

AWARDS AND HONORS

- Second Prize of Huawei Final Year Project Competition, City University of Hong Kong 2023
- InfoTech Job Market Driven Scholarship, InfoTech Services (Hong Kong) Limited 2023
- Grand Prize Award & "Citi Challenge-ESG" Special Prize Award of 18th Citi Financial Innovation Application Competition, Citi Bank (China) 2023
- Reaching Out Award, HKSAR Government Scholarship Fund 2022• Asia-Pacific Economic Cooperation Scholarship, HKSAR Government Scholarship Fund 2022

SKILLS

Programming Languages: Python, R, JAVA, Kotlin, C++ Tools: PyTorch, TensorFlow, Hugging Face, Git, MongoDB, LATEX Web Dev: CSS/HTML, JavaScript/Node.js

Sep. 2022 - Apr. 2023

May 2022 - Aug. 2022

July 2021 - July 2022

Mar. 2023 - Jul. 2023

June 2021 - Mar. 2022