Huiqi Zou

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EDUCATION

Northeastern University Sep. 2025 - present
Ph.D. in Computer Engineering
Johns Hopkins University Aug. 2023 - Dec. 2024
M.Sc.Eng in Computer Science
City University of Hong Kong Aug. 2019 - June 2023
B.Sc. in Computer Science with First Class Honors

PUBLICATIONS & PREPRINTS (*: equal authorship)

Preprints

- Wang, P., **Zou, H.**, Chen, H., Sun, T., Xiao, Z., & Oswald, F. L. (2025). Personality Structured Interview for Large Language Model Simulation in Personality Research. *arXiv preprint arXiv.2502.12109.*
- Wang, P., **Zou, H.**, Yan, Z., Guo, F., Sun, T., Xiao, Z., & Zhang, B. (2024). Not Yet: Large Language Models Cannot Replace Human Respondents for Psychometric Research. *OSF Preprints. osf.io/rwy9b.*

Publications

- **Zou, H.**, Wang, P., Yan, Z., Sun, T., & Xiao, Z. (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.* (Accepted by COLM 2025).
- Ma, X., Li, Y., Keung, J., Yu, X., **Zou, H.**, Yang, Z., Sarro, F. & Barr, E.T. (2025). Practitioners' Expectations on Log Anomaly Detection. *IEEE Transactions on Software Engineering.*
- Ma, X., **Zou, H.**, He, P., Keung, J., Li, Y., Yu, X., & Sarro, F. (2025). On the Influence of Data Resampling for Deep Learning-Based Log Anomaly Detection: Insights and Recommendations. *IEEE Transactions on Software Engineering, 51*(1), 243 - 261.
- Li, Y.*, **Zou, H.***, and Xiao, X. (2024). Towards Dynamic and Realistic Evaluation of Multi-modal Large Language Model. (Extended Abstract). *GenBench workshop at EMNLP.*
- Ma, X., Keung, J. W., Yu, X., **Zou, H.**, Zhang, J., & Li, Y. (2023). AttSum: A Deep Attention-based Summarization Model for Bug Report Title Generation. *IEEE Transactions on Reliability, 72*(4), 1663-1677.
- Liu, Z.*, Qin, Y.*, **Zou, H.***, Paek, E. J., Casenhiser, D., Zhou, W., & Zhao, X. (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 - May. 2025
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.

AIˆ2 Lab, City University of Hong Kong Sep. 2022 - Apr. 2023
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 May 2022 - Aug. 2022
Human-Robot Collaborative Interaction Using Referential Expression
- Collaborated with a team of two to integrate referential communication into feedback strategies, enhancing 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 July 2021 - July 2022
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 Mar. 2023 - Jul. 2023
- Conducted sentiment and readability analysis on annual financial reports.

Siemens Limited (Hong Kong), Intern June 2021 - Mar. 2022
- 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

- **Reviewer**, EMNLP 2025.
- **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