

Yue Zhang

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Education

The University of Texas at Dallas

Ph.D. in Computer Science (GPA: 4.00 / 4.00), Advisor: Vibhav Gogate

Started on 08/2023

Richardson, Texas, US

The University of Manchester

MSc in Advanced Computer Science (GPA: 3.83 / 4.00, Distinction)

09/2020 - 09/2021

Manchester, England, UK

Zhejiang Normal University

B.E. in Computer Science and Technology (GPA: 3.86 / 4.00, Rank: 1/34)

09/2016 - 06/2020

Jinhua, Zhejiang, CHN

Summary

I am a Ph.D. researcher with publications at leading AI, NLP, and speech venues, including **ICLR**, **AAAI**, **EMNLP**, **CIKM**, **TMLR**, and **Interspeech**. My work on sarcasm understanding in large vision-language models was selected as a **Best Short Paper Candidate at CIKM 2025**. I also co-organized a tutorial on hallucinations in LLMs and MLLMs at **ICMR 2025**.

My research interests include **large language models (LLMs)**, **multimodal large language models (MLLMs)**, and **multimodal reasoning** [1,2,3,4,5,6,7,11], **trustworthy and reliable AI** [1,2,3,7,11,12], and **AI agents and agent evaluation** [6,8,10,13].

Experience

Applied Scientist Intern, AWS Bedrock

05/2026 - 08/2026

Topic: Efficient Data Selection for Multimodal Reinforcement Learning

Seattle, US

Mentors: Yueyan Chen, Zhengyuan Shen, Jianfeng He, Ren Pang, Shuai Wang, and Xiong Zhou

- Developed a data selection framework to identify high-value training examples and improve the data efficiency of multimodal reinforcement learning.
- Evaluated the framework across multiple vision-language models and seven multimodal reasoning benchmarks, matching or outperforming full-data training with only 5K selected examples.
- Prepared a first-author research paper for submission to ICLR 2027.

Research Scientist Intern, Megagon Labs

06/2025 - 08/2025

Topic: Tabular Question Answering, Mentors: Seiji Maekawa and Nikita Bhutani

Mountain View, US

- Conducted research on tabular question answering under different data representations.
- Produced a first-author research paper from this work and submitted it to a top-tier conference.

Research Assistant, Hong Kong University of Science and Technology

04/2022 - 03/2023

Topic: Multimodal Document Understanding, Supervisors: Lucy Park and Sung Kim

Hong Kong, China

- Conducted research on information extraction from multimodal documents, training and fine-tuning a series of Transformer-based models.
- Introduced a post-correction model for multimodal document information extraction, improving accuracy from 68.44 to 71.69.
- Proposed Extract Answer Merge Answer (EAMA) for multimodal table information extraction, achieving third place in the VQAonBD task of the ICDAR competition.

Research Papers

[1] Defeasible Visual Entailment: Benchmark, Evaluator, and Reward-Driven Optimization

Yue Zhang, Liqiang Jing, Vibhav Gogate

AAAI 2025

[2] Can Large Vision-Language Models Understand Sarcasm?

Yue Zhang*, Xinyu Wang*, Liqiang Jing

CIKM 2025, Best Short Paper Candidate

(*Equal Contribution where noted)

[3] Fine-grained and Explainable Factuality Evaluation for Multimodal Summarization

Yue Zhang, Jingxuan Zuo, Liqiang Jing

DoCUI@AAAI 2025

- [4] Same Content, Different Representations: A Controlled Study for Table QA
Yue Zhang, Seiji Maekawa, Nikita Bhutani ICLR 2026
- [5] Speech Recognition on TV Series with Video-Guided Post-Correction
Yue Zhang, Haoyuan Yang*, Liqiang Jing, John Hansen* Interspeech 2026
 (*Equal Contribution)
- [6] A Skill-augmented Agentic Framework and Benchmark for Multi-Video Understanding
Yue Zhang, Liqiang Jing*, Jia Li, Yapeng Tian, Xinya Du, Yunhui Guo, Vibhav Gogate* EMNLP 2026 Findings
- [7] Can Video Large Multimodal Models Think Like Doubters—
 or Double-Down: A Study on Defeasible Video Entailment
Yue Zhang, JiLei Sun, Yunhui Guo, Vibhav Gogate EMNLP 2026 Findings
- [8] DeployBench: Benchmarking LLM Agents for Research Artifact Deployment
Yuanli Wang, Yaoyao Qian, Yue Zhang, Hanhan Zhou, Jindan Huang, Tianfu Fu, Qiuyang Mang, Huanzhi Mao, Wenhao Chai, Wendong Fan, Liqiang Jing EMNLP 2026 Findings
- [9] Machine learning classification of multi-lead ECGs
 using clinically-relevant features
Yue Zhang, David Wong MSc Thesis, University of Manchester
- [10] LMR-BENCH: Evaluating LLM Agent's Ability on Reproducing Language Modeling Research
Shuo Yan, Ruochen Li, Ziming Luo, Zimu Wang, Daoyang Li, Liqiang Jing, Kaiyu He, Peilin Wu, George Michalopoulos, Yue Zhang, Ziyang Zhang, Mian Zhang, Zhiyu Chen, Xinya Du EMNLP 2025
- [11] A Unified Hallucination Mitigation Framework for Large Vision-Language Models
Yue Chang, Liqiang Jing, Xiaopeng Zhang, Yue Zhang TMLR 2024
- [12] LOGicalThought: Logic-Based Ontological Grounding of LLMs
 for High-Assurance Reasoning
Navapat Nananukul, Yue Zhang, Ryan Lee, Eric Boxer, Jonathan May, Vibhav Gogate, Jay Pujara, Mayank Kejriwal IJCAI 2026 Workshop Logical and Symbolic Reasoning
- [13] SkillsBench: Benchmarking How Well Agent Skills Work Across Diverse Tasks
SkillsBench team Under Review by NeurIPS 2026

Tutorial Organization

- Tutorial Proposal: Hallucinations in Large Language Models and Large Vision-Language Models**
Liqiang Jing, Yue Zhang, Xinya Du ICMR 2025

Awards & Honors

- Louis Beecherl, Jr. Graduate Fellowship** 2026
- CIKM Best Short Paper Candidate** 2025
- President's Special Award of Zhejiang Normal University** 2020
- First-class Scholarship of Zhejiang Normal University** 2017, 2018, 2019

Technical Skills

Languages: Python, Java, C++, R, SQL
Technologies: PyTorch, scikit-learn, Huggingface, PyTorch-Lightning, Weights&Bias, SpaCy, NLTK, Spring Boot, LaTeX
Core Courses: Natural Language Processing, Artificial Intelligence, Machine Learning, Computer Vision