

JINGYUAN HUANG

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EDUCATION

- **Ph.D. in Computer Science**, University of Georgia **Aug 2025 – Present**
Research Focus: Multimodal LLMs, Trustworthy LLM, Reinforcement Learning
Advisor: Prof. Ninghao Liu
- **B.S. in Artificial Intelligence**, The Chinese University of Hong Kong **Sep 2021 – Jun 2025**

RESEARCH INTERESTS

Multimodal LLMs, RL for LLMs (GRPO/RLHF), Computational Social Science, Model Bias & Fairness

PUBLICATIONS

AI Sees Your Location—But With A Bias Toward The Wealthy World.

Jingyuan Huang[†], Jen-tse Huang[†], Ziyi Liu, Xiaoyuan Liu, Wenxuan Wang, Jieyu Zhao.

In Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP). (2025).

Not All Countries Celebrate Thanksgiving: On the Cultural Dominance in Large Language Models.

Wenxuan Wang, Wenxiang Jiao, Jingyuan Huang, Ruyi Dai, Jen-tse Huang, Zhaopeng Tu, Michael R. Lyu.

In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (ACL). (2024).

A Picture is Worth a Thousand Toxic Words: A Metamorphic Testing Framework for Content Moderation Software.

Wenxuan Wang, Jingyuan Huang, Chang Chen, Pinjia He, Jiazen Gu, Michael R. Lyu.

In Proceedings of the 38th IEEE/ACM International Conference on Automated Software Engineering (ASE). (2023).

Validating Multimedia Content Moderation Software via Semantic Fusion.

Wenxuan Wang, Jingyuan Huang, Chang Chen, Jiazen Gu, Jianping Zhang, Weibin Wu, Pinjia He, Michael R. Lyu.

In Proceedings of the 32nd ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA). (2023).

A Spectrum Evaluation Benchmark for Medical Multi-Modal Large Language Models.

Jie Liu, Wenxuan Wang, Yihang Su, Jingyuan Huang, Wenting Chen, Yudi Zhang, Cheng-Yi Li, Kao-Jung Chang, Xiaohan Xin, Linlin Shen, Michael R. Lyu.

In Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL). (2025).

([†] denotes equal contribution)

RESEARCH EXPERIENCE

- **Graduate Research Assistant**, University of Georgia **Aug 2025 – Present**
(with Prof. Ninghao Liu)
 - Investigating reinforcement learning frameworks for Vision-Language Models (VLMs), specifically utilizing **Group Relative Policy Optimization (GRPO)** to enhance reasoning.
 - Designing granular **process reward models** to provide dense supervision during the reasoning chain, aiming to significantly improve performance on complex multimodal tasks.
- **Research Collaborator**, University of Southern California (USC) **May 2024 – May 2025**
(Remote, with Prof. Jieyu Zhao)
 - Co-led research quantifying significant geopolitical and economic biases in the location-recognition capabilities of state-of-the-art VLMs.
 - Spearheaded the core research direction, designed the end-to-end experimental pipeline, and executed all analyses, securing a co-first author EMNLP 2025 publication.
- **Research Assistant**, ARISE Lab, CUHK **May 2022 – May 2025**
(with Prof. Michael R. Lyu)
 - Engineered a novel multimodal attack vector that bypassed content moderation systems by distributing toxic cues, achieving a 90% evasion rate.
 - Led the complete experimental lifecycle, from dataset generation to technical writing, for two top-tier conference papers (ISSTA 2023, ASE 2023) on AI safety.

- Co-authored "Asclepius," a novel benchmark for evaluating the medical reasoning capabilities of Vision-Language Models.
 - Supervised and mentored two undergraduate students on their final year projects in LLM reliability.
- **Research Collaborator**, Tencent AI Lab **Oct 2022 – Sep 2023**
- Initiated and directed a research project investigating cultural dominance and bias in multilingual Large Language Models.
 - Architected the complete experimental framework, from novel dataset curation to evaluation metric design, culminating in an ACL 2024 publication.
 - Managed all primary experiments and authored the corresponding results and analysis sections of the paper.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, SQL
- **AI/ML Frameworks:** PyTorch, TensorFlow, Hugging Face, DeepSpeed, scikit-learn
- **Developer Tools:** Git, LaTeX, Linux