

# 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<sup>†</sup>, Jen-tse Huang<sup>†</sup>, 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, Jiazhen 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, Jiazhen 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).

(<sup>†</sup> 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

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