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### Summary.

I am a **postdoc** researcher at **the Hong Kong University of Science and Technology**, advised by Prof. Shuai Wang. I received my Ph.D. degree at The Chinese University of Hong Kong, advised by Prof. Michael R. Lyu. I was a visiting scholar at UCLA NLP Group, worked with Prof. Nanyun Peng and Harvard Medical School, worked with Prof. Xiang Li.

My research interests are the **trustworthy AI models**, such as Large Language Models, Multi-Modal AI Models, Code Intelligent Models, and Medical Intelligent Models. My works have over 2000 citations and an h-index of 21. My GitHub projects have received over 3000 stars.

### **Education**

The Chinese University of Hong Kong

Hong Kong

PhD's Student in Computer Science and Engineering

2020 - 2024

**Huazhong University of Science and Technology** 

Wuhan, Hubei, China

**B.E. IN COMPUTER SCIENCE AND TECHNOLOGY** 

2013 - 2017

## **Experience**

#### Hong Kong University of Science and Technology

Hong Kong, China

POSTDOC RESEARCHER

2024.9 - Now

· Security and Safety of LLMs

UCLA NLP Group

VISITING RESEARCHER

Los Angeles, CA, USA

• Evaluation of Large Language Models and Multi-modal AI Models

2023 - 2024

• Evaluation of Large Language Models and Mutti-modal At Models

Tencent Al Lab
Research Intern

Shenzhen, Guangdong, China

Safety and Reliability of Language Generation Models

2019 - 2023

Turing Robot Inc.

Beijing, China

Multi-modal Al

# Selected Publication

RESEARCH AND DEVELOPMENT ENGINEER

#### Apathetic or Empathetic? Evaluating LLMs' Emotional Alignment with Humans

NeurIPS 2024

JEN-TSE HUANG, MAN HO LAM, ERIC JOHN LI, SHUJIE REN, **WENXUAN WANG (CORRESPONDING)**, WENXIANG JIAO, ZHAOPENG

(CCF A)

TU, MICHAEL R. LYU

the Thirty-Eighth Annual Conference on Neural Information Processing Systems

#### On the Reliability of Psychological Scales on Large Language Models

**EMNLP 2024** 

JEN-TSE HUANG, WENXIANG JIAO, MAN HO LAM, ERIC JOHN LI, **WENXUAN WANG (CORRESPONDING)**, MICHAEL R. LYU

(CAALA, CCFB)

The 2024 Conference on Empirical Methods in Natural Language Processing

#### LogicAsker: Triggering the Logical Reasoning Failures in Large Language Models

**EMNLP 2024** 

yuxuan wan $^*$ , **wenxuan wang (co-first)** $^*$ , yiliu yang, pinjia he, wenxiang jiao, michael r. Lyu

(CAALA, CCFB)

The 2024 Conference on Empirical Methods in Natural Language Processing

#### New Job, New Gender? Measuring the Social Bias in Image Generation Models

ACM MM 2024 (Oral)

**WENXUAN WANG**, HAONAN BAI, JEN-TSE HUUANG, JINGYUAN HUANG , HAOYI QIU, NANYUN PENG, MICHAEL R. LYU ACM Multimedia 2024 (Oral)

(CCF A)

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

ACL 2024

WENXUAN WANG, WENXIANG JIAO, RUYI DAI, JINGYUAN HUANG, JEN-TSE HUANG, ZHAOPENG TU, MICHAEL R. LYU

(CCF A)

The Annual Meeting of the Association for Computational Linguistics

March 7, 2025 Wenxuan Wang · Résumé

All Languages Matter! A Multilingual Safety Benchmark for Large Language Models	ACL 2024 Findings
WENXUAN WANG, ZHAOPENG TU, CHANG CHEN, YOULIANG YUAN, JEN-TSE HUANG, WENXIANG JIAO, MICHAEL R. LYU	(CCF A)
Findings of The Annual Meeting of the Association for Computational Linguistics	
Understanding and Mitigating the Uncertainty in Zero-Shot Translation	TASLP
WENXUAN WANG, WENXIANG JIAO, SHUO WANG, ZHAOPENG TU, MICHAEL R. LYU	(JCR Q1, SCI Q1, CAAI A)
The IEEE/ACM Transactions on Audio, Speech, and Language Processing	
On the Shortcut Learning in Multilingual Neural Machine Translation	Neurocomputing
WENXUAN WANG, WENXIANG JIAO, JEN-TSE HUANG, ZHAOPENG TU, MICHAEL R. LYU  Neurocomputing	(JCR Q2, SCI Q1)
A Picture is Worth a Thousand Toxic Words: A Metamorphic Testing Framework for Content Moderation Software	ASE 2023
WENXUAN WANG, JINGYUAN HUANG, CHANG CHEN, PINJIA HE, JIAZHEN GU, MICHAEL R. LYU	(CCF A)
The IEEE/ACM International Conference on Automated Software Engineering	
BiasAsker: Measuring the Bias in Conversational AI System	FSE 2023
yuxuan wan*, <b>wenxuan wang* (co-first)</b> , pinjia he, jiazhen gu, Haonan Bai, michael r. lyu	(CCF A)
The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering	
Validating Multimedia Content Moderation Software via Semantic Fusion	ISSTA 2023
WENXUAN WANG, JINGYUAN HUANG, CHANG CHEN, JIAZHEN GU, JIANPING ZHANG, WEIBIN WU, PINJIA HE, MICHAEL R. LYU	(CCF A)
The ACM SIGSOFT International Symposium on Software Testing and Analysis	
MTTM: Metamorphic Testing for Textual Content Moderation Software	ICSE 2023
WENXUAN WANG, JEN-TSE HUANG, WEIBIN WU, JIANPING ZHANG, YIZHAN HUANG, SHUQING LI, PINJIA HE, MICHAEL R. LYU	(CCF A)
The IEEE/ACM International Conference on Software Engineering	
Understanding and Improving Sequence-to-Sequence Pretraining for Neural Machine	ACL 2022
Translation	ACL 2022
<b>WENXUAN WANG</b> , WENXIANG JIAO, YONGCHANG HAO, XING WANG, SHUMING SHI, ZHAOPENG TU, MICHAEL R. LYU  The Annual Meeting of the Association for Computational Linguistics	(CCF A)
Rethinking the Value of Transformer Components	COLING 2020
WENXUAN WANG. ZHAOPENG TU	(CCF B)
The International Conference on Computational Linguistics	(00, 2)
FPETS: Fully Parallel End-to-end Text-to-speech System	AAAI 2020 Oral
DABIAO MA*, ZHIBA SU*, <b>WENXUAN WANG* (CO-FIRST)</b> , YUHAO LU	(CCF A)
AAAI Conference on Artificial Intelligence	,
Who is ChatGPT? Benchmarking LLMs' Psychological Portrayal Using PsychoBench	ICLR 2024 Oral
JEN-TSE HUANG, <b>WENXUAN WANG</b> , ERIC JOHN LI, MAN HO LAM, SHUJIE REN, YOULIANG YUAN, WENXIANG JIAO, ZHAOPENG TU,	
MICHAEL R. LYU	(CAAI A)
The Twelfth International Conference on Learning Representations	
Gpt-4 is Too Smart to be Safe: Stealthy Chat with LLMs via Cipher	ICLR 2024
YOULIANG YUAN, WENXIANG JIAO, <b>WENXUAN WANG</b> , JEN-TSE HUANG, PINJIA HE, SHUMING SHI, ZHAOPENG TU	(CAAI A)
The Twelfth International Conference on Learning Representations	
Boosting Adversarial Transferability by Block Shuffle and Rotation	CVPR 2024
KUNYU WANG, XUANRAN HE, <b>WENXUAN WANG</b> , XIAOSEN WANG	(CCF A)
The IEEE/CVF Conference on Computer Vision and Pattern Recognition	
Does ChatGPT Know that It Does Not Know? Evaluating the Black-Box Calibration of ChatGPT.	COLING 2024
YOULIANG YUAN, <b>WENXUAN WANG</b> , QINGSHUO GUO, YIMING XIONG, CHIHAO SHEN, PINJIA HE	(CCF B)
International Conference on Computational Linguistics	
Generative Type Inference for Python	ASE 2023
YUN PENG, CHAOZHENG WANG, <b>WENXUAN WANG</b> , CUIYUN GAO, MICHAEL R. LYU	(CCF A)
The IEEE/ACM International Conference on Automated Software Engineering (ACM SIGSOFT Distinguished Paper Award	)
Constructing Effective In-Context Demonstration for Code Intelligence Tasks: An	105.005
Empirical Study	ASE 2023
SHUZHENG GAO, XIN-CHENG WEN, CUIYUN GAO, <b>WENXUAN WANG</b> , MICHAEL R. LYU	(CCF A)
The IEEE/ACM International Conference on Automated Software Engineering	

#### Improving the Transferability of Adversarial Samples by Path-Augmented Method CVPR 2023 JIANPING ZHANG, JEN-TSE HUANG, **WENXUAN WANG**, YICHEN LI, WEIBIN WU, XIAOSEN WANG, YUXIN SU, MICHAEL R. LYU (CCF A) The IEEE/CVF Conference on Computer Vision and Pattern Recognition Parrot: Translating during chat using large language models Findings of EMNLP 2023 WENXIANG JIAO, JEN-TSE HUANG, **WENXUAN WANG**, XING WANG, ZHAOPENG TU (CAALA, CCFB) Findings of The Conference on Empirical Methods in Natural Language Processing LFAA: Crafting Transferable Targeted Adversarial Examples with Low-Frequency ECAI 2023 **Perturbations** KUNYU WANG, JULUAN SHI, WENXUAN WANG (CCF B) 26th European Conference on Artificial Intelligence Improving Adversarial Transferability via Neuron Attribution-Based Attacks CVPR 2022 JIANPING ZHANG, WEIBIN WU, JEN-TSE HUANG, YIZHAN HUANG, **WENXUAN WANG**, YUXIN SU, MICHAEL R. LYU (CCF A) The IEEE/CVF Conference on Computer Vision and Pattern Recognition **AEON: A Method for Automatic Evaluation of NLP Test Cases** ISSTA 2022 JEN-TSE HUANG, JIANPING ZHANG, **WENXUAN WANG**, PINJIA HE, YUXIN SU, MICHAEL R. LYU (CCF A) The ACM SIGSOFT International Symposium on Software Testing and Analysis Revisiting, Benchmarking and Exploring API Recommendation: How Far Are We? TSE 2021 YUN PENG, SHUQING LI, WENWEI GU, YICHEN LI, **WENXUAN WANG**, CUIYUN GAO, MICHAEL R. LYU (CCF A) IEEE Transactions on Software Engineering