

Yijie Xu 徐亦捷

First Year Ph.D. Candidate in Artificial Intelligence at
The Hong Kong University of Science and Technology (Guangzhou)
✉ yxu409@connect.hkust-gz.edu.cn | 🏠 yjx.me | 📄 github.com/yeahjack

RESEARCH INTEREST

His current research interest is **Trustworthy Large Language Models**, he also has broad research interests focusing on Human-AI Interaction and Computational Social Science.

EDUCATION

Hong Kong University of Science and Technology (Guangzhou)

PH.D. STUDENT IN ARTIFICIAL INTELLIGENCE

Guangzhou, China

Aug. 2027 Expected

- **Supervisor:** Prof. Hui Xiong, Associate Vice President, Founding Head of AI Thrust, Fellow of AAAS, AAAI, IEEE.
- **Co-supervisor:** Prof. Xuming Hu, Assistant Professor in AI Thrust, HKUST(GZ).

Hong Kong University of Science and Technology (Guangzhou)

M.PHIL. IN ARTIFICIAL INTELLIGENCE

Guangzhou, China

Sep. 2022 - Aug. 2024

- **CGPA:** 3.96/4.3
- **Supervisor:** Prof. Hui Xiong, Associate Vice President, Founding Head of AI Thrust, Fellow of AAAS, AAAI, IEEE.
- **Co-supervisor:** Prof. Xiaojuan Ma, Associate Professor in CSE, HKUST.

University of Reading

B.SC. IN MATHEMATICS AND APPLIED MATHEMATICS

Reading, England

Sep. 2018 - Jun. 2022

- **CGPA:** 3.71/4
- **Final Year Project:** Research on Interpolation and Data Fitting: Basis and Applications.

Nanjing University of Information Science and Technology

B.SC. IN MATHEMATICS AND APPLIED MATHEMATICS

Nanjing, China

Sep. 2018 - Jun. 2022

- **Double First-class** University, also known as NUIST.
- **Dual-degree** with Department of Mathematics & Statistics, University of Reading.

SCHOLARSHIPS AND AWARDS

Doctoral Scholarship Award

Sep. 2024

Postgraduate Scholarship Award

Sep. 2022

First Prize of the *Smart Audiovisual Track*, National AI Application Innovation Challenge

Sep. 2024

Champion of the *HCI channel*, the 2nd Guangzhou Pazhou Algorithm Competition (**Top 15/3307**)

Sep. 2023

Scholarship from Nanjing University of Information Science and Technology

Nov. 2021

Scholarship from China Mobile Communications Corporation (CMCC)

Nov. 2020

Scholarship from China Mobile Communications Corporation (CMCC)

Nov. 2019

TEACHING EXPERIENCES

Spring 2025 **Big Data Applications for Business and Government**, Teaching Assistant
Fall 2024 **Natural Language Processing and Its Applications**, Teaching Assistant
Summer 2023 **Red Bird Challenge Camp**, Teaching Assistant
Summer 2022 **Red Bird Challenge Camp**, Teaching Assistant
Fall 2021 **Professional Skills for Mathematicians**, Teaching Assistant
Fall 2021 **Numerical Analysis**, Teaching Assistant
Fall 2021 **Applied Stochastic Process**, Teaching Assistant
Spring 2021 **Mathematical Programming**, Teaching Assistant

HKUST(GZ)
HKUST(GZ)
HKUST(GZ)
HKUST(GZ)
NUIST
NUIST
NUIST
NUIST

PUBLICATIONS

†: Co-first Authors; *: Corresponding Authors.

CONFERENCES

- [1] **Mark Your LLM: Detecting the Misuse of Open-Source Large Language Models via Watermarking**
Yijie Xu[†], Aiwei Liu[†], Xuming Hu*, Lijie Wen, Hui Xiong*
WMARK@ICLR2025: *The 1st Workshop on GenAI Watermarking, ICLR 2025*
- [2] **SePer: Measure Retrieval Utility Through The Lens Of Semantic Perplexity Reduction**
Lu Dai, Yijie Xu, Jinhui Ye, Hao Liu*, Hui Xiong*
ICLR'25 Spotlight(3.20%): *The Thirteenth International Conference on Learning Representations*
- [3] **SpGesture: Source-Free Domain-adaptive sEMG-based Gesture Recognition with Jaccard Attentive Spiking Neural Network**
Weiyu Guo, Ying Sun*, Yijie Xu, Ziyue Qiao, Yongkui Yang, Hui Xiong*
NeurIPS'24: *The Thirty-eighth Annual Conference on Neural Information Processing Systems*
- [4] **Revisiting Noise Resilience Strategies in Gesture Recognition: Short-Term Enhancement in sEMG Analysis**
Weiyu Guo, Ziyue Qiao, Ying Sun*, Yijie Xu, Hui Xiong*
ICML'25: *The Forty-Second International Conference on Machine Learning*
- [5] **Event Camera Demosaicing via Swin Transformer and Pixel-focus Loss**
Yunfan Lu, Yijie Xu, Wenzong Ma, Weiyu Guo, Hui Xiong*
CVPRW'24: *Workshop for IEEE Conference on Computer Vision and Pattern Recognition*
- [6] **MIPI 2024 Challenge on Demosaic for HybridEVS Camera: Methods and Results**
Yaqi Wu, *et al.*, Yunfan Lu, Yijie Xu, Wenzong Ma, Weiyu Guo, Hui Xiong, *et al.*
CVPRW'24: *Workshop for IEEE Conference on Computer Vision and Pattern Recognition*

JOURNALS

- [7] **Against Political Polarization: A Unified Framework for Tracing Evolving Political Ideologies on Social Media**
Yijie Xu, Chao Wang, Hui Xiong*
TIST: *ACM Transactions on Intelligent Systems and Technology*. (Under 2nd round revision)

PREPRINTS

- [8] **Logic-in-Frames: Dynamic Keyframe Search via Visual Semantic-Logical Verification for Long Video Understanding**
Weiyu Guo, Ziyang Chen, Shaoguang Wang, Jianxiang He, Yijie Xu, Jinhui Ye, Ying Sun*, Hui Xiong*
arXiv: [2503.13139v1 cs.CV] (Under Review)

SERVICES

• Reviewer

– Conferences:

* **2025**: ACM MM, KDD, NeurIPS, ICML, IJCAI, ICLR, ICASSP, AISTATS, ICWSM

* **2024**: NeurIPS

– Journals: IEEE Transactions on Circuits and Systems for Video Technology

• Other Roles

– Student Representative Member, Committee on Undergraduate Studies, Senate of HKUST(GZ)

SKILLS

• **Language**: Chinese (Mother Tongue), English (IELTS:7)

• **Hobbies**: Photography, Badminton, Swimming, Piano