Yijie Xu 徐亦捷

Ph.D. Candidate in Artificial Intelligence at
The Hong Kong University of Science and Technology (Guangzhou)
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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) *Guangzhou, China*
Ph.D. Student in Artificial Intelligence *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) *Guangzhou, China*
M.Phil. in Artificial Intelligence *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 *Reading, England*
B.Sc. in Mathematics and Applied Mathematics *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 *Nanjing, China*
B.Sc. in Mathematics and Applied Mathematics *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	*HKUST(GZ)*
Fall 2024	**Natural Language Processing and Its Applications**, Teaching Assistant	*HKUST(GZ)*
Summer 2023	**Red Bird Challenge Camp**, Teaching Assistant	*HKUST(GZ)*
Summer 2022	**Red Bird Challenge Camp**, Teaching Assistant	*HKUST(GZ)*
Fall 2021	**Professional Skills for Mathematicians**, Teaching Assistant	*NUIST*
Fall 2021	**Numerical Analysis**, Teaching Assistant	*NUIST*
Fall 2021	**Applied Stochastic Process**, Teaching Assistant	*NUIST*
Spring 2021	**Mathematical Programming**, Teaching Assistant	*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: *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] **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*

[5] **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

[6] **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 Major Revision**)

PREPRINTS

[7] **Revisiting Noise Resilience Strategies in Gesture Recognition: Short-Term Enhancement in sEMG Analysis**
Weiyu Guo, Ziyue Qiao, Ying Sun*, **Yijie Xu**, Hui Xiong*
arXiv: [2404.11213 eess.SP] (**Under Review**)

[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**
  - **2025**
    - ACM MM, KDD, NeurIPS, ICML, IJCAI, ICLR, ICASSP, AISTATS, ICWSM
  - **2024**
    - NeurIPS
- **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