Pengqi "Eric" WANG

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Education

The Hong Kong University of Science and Technology   *Sep 2023 – Jul 2025*
M. Phil. in Computational Media and Arts, Guangzhou campus   *(Expected)*

- **GPA: 4.06 / 4.3**
- **Cognate: Human Computer Interaction**
- Thesis Topic: Enhancing Children's Reading Engagement through Multi-Modal Interactive AI Agent
- Advisor: Prof. Mingming FAN (Primary), Prof. Muzhi ZHOU (Co)
- Awards: Postgraduate Studentship (1,426 USD per month); Postgraduate Research Funding & Travel Grant

Hong Kong Baptist University   *Sep 2019 – Jun 2023*
B. B. A. (Honours) in e-Business Management and Information Systems (First Class), with minor in Computer Science and Technology, BNU-HKBU UIC campus

- **GPA: 3.66 / 4.0 (Ranking top 5%)**
- Thesis Topic: Comp. Study of Tree-Based & Transformer-based Models for Fake Rev. Detection on Yelp
- Advisor: Prof. May Ying WANG (Academic), Prof. Don Junyi CHAI (Final Year Project, Mentor)
- Awards: First-Class Scholarship (2019-2020), Second-Class Scholarship (2020-2021, 2021-2022, 2022-2023)

Research Interest

Human-AI Collaboration, Educational Technology, Technology for Social Good, Computer-Supported Cooperative Work (CSCW), Assistive Technology, Healthcare, etc.

Publications

[1] **Pengqi Wang**, Mingqing Xu, Li Feng and Mingming Fan*. 2025. Understanding and Facilitating Learning with AI in Multi-Source Information Environment for College Students. Submitted to *ACM CHI Conf. on Human Factors in Computing Systems* (CHI '25). Under review. paper

[2] Qianjie Wei, Jingling Zhang, **Pengqi Wang**, Xiaofu Jin and Mingming Fan*. 2024. Augmented Library: Toward Enriching Physical Library Experience Using HMD-Based Augmented Reality. In *Proc. 17th Int. Symp. Visual Information Communication and Interaction (VINCI '24)*. arxiv

[3] May Ying Wang, Bingjie Deng* and **Pengqi Wang***. 2024. From Hallucination to Trust: Leveraging Chain-of-Thoughts and Empathy in LLM-Empowered Agent. In *Proc. 24th Int. Conf. Electronic Business (ICEB '24)*. paper

[4] May Ying Wang, Na Jiang, **Pengqi Wang** and Bingqing Xiong. 2024. Enhancing Well-Being and Reliance on AIGC-Powered Digital Assistants. In *2024 UNNC-CNAIS Paper Development Workshop*.

[5] May Ying Wang and **Pengqi Wang***. 2024. Decoding Business Applications of Generative AI: A Bibliometric Analysis and Text Mining Approach. In *Proc. 23rd Int. Conf. Electronic Business (ICEB '23)*. paper

[6] **Pengqi Wang**, Yue Lin and Junyi Chai*. 2023. Unmasking Deception: A Comparative Study of Tree-Based and Transformer-based Models for Fake Review Detection on Yelp. In *Proc. IEEE Int. Conf. Systems, Man, and Cybernetics (SMC '23)*. paper

[7] **Pengqi Wang**, Mengli Yu and Yadong Liu*. 2022. Assessing the Content Topics of the Educational Videos on Tik Tok for Science Communication. In *Proc. Int. Seminar on Education, Management and Social Sciences (ISEMSS '22)*. paper

Selected Research Experiences

Research Student *Sep 2023 – Present*
Accessible & Pervasive User EXperience (APEX) Lab, HKUST, Supervised by Prof. Mingming FAN

- **Understanding and Facilitating Learning with AI in Multi-Source Information Environment for College Students**
  - Led qualitative research understanding and designing AI-powered tools to support college students in multi-source information environments, revealed a framework of students' multi-source information behaviors, provided design implications for enhancing AI-assisted academic tools.
  - Conducted focus group study sessions and participatory design workshops, analyzed the data using inductive and deductive analysis to generate actionable insights, and authored the manuscript.

- **Exploring the Design of AI-mediated Emotion Communication for Deaf and Hard of Hearing People in Online Meetings**
  - Designed, developed, and implemented an AI-driven emotion support system for Deaf and Hard of Hearing (DHH) participants in online meetings via detecting, interpreting, and visualizing emotional states in real-time, addressing the unique emotional challenges faced by DHH users in virtual environments.
  - Worked collaboratively with DHH community and planned user evaluations to assess its effectiveness in improving participation and reducing social isolation.

- **Investigating the Role of AI in the Team Synchronous-Asynchronous Collaboration Loop**
  - Proposed and developed an AI-assisted collaborative ideation system to enhance team collaboration across synchronous and asynchronous modes, with a focus on improving idea comprehension and evolution in group ideation processes. Prepared and conducted user evaluations to assess the effectiveness of AI-assisted features in collaborative environments.

Research Assistant *Jul 2022 – Present*
Faculty of Business and Management, HKBU-UIC (Supervised by Prof. May Ying WANG)

- **From Hallucination to Trust: Leveraging CoT and Empathy in LLM-Empowered Agent**
  - Explored how Chain-of-Thought reasoning and empathy expressions can enhance user experience with LLMs in critical interaction scenarios, specifically hallucination and service failure, contributing to the development of trustworthy and user-centric AI systems.
  - Developed an AI-powered conversational agent based on LobeHub framework for field study experiment, prepared the questionnaire, and authored the manuscript.

- **Enhancing Well-Being and Reliance on AIGC-Powered Digital Assistants**
  - Investigated the impact of explainability signals and dialogue strategies on user well-being and reliance on AIGC-powered digital assistants, aiming to refine their design and enhance user satisfaction.
  - Designed experiments, developed systems, and presented the working paper at the 2024 UNNC-CNAIS Paper Development Workshop, gathering valuable insights from conference mentor Atreyi Kankanhalli for future research directions.

Professional Experiences

Data Analyst Intern *Jul 2022 – Nov 2022*
eBay Inc. @ Top Seller Account Management Team, SZ Branch

Information Systems Intern *Jun 2022 – Jul 2022*
Kingdee International Software Group @ Kingdee China Shared Service Center

References

Prof. Mingming FAN

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Assistant Professor in Computational Media and Arts and Internet of Things at HKUST (Guangzhou);
Assistant Professor in Division of Integrative Systems and Design and Dept. of Computer Science and Engineering at HKUST.

Prof. May Ying WANG

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Associate Professor, Programme Director, Faculty of Business and Management, Beijing Normal University-Hong Kong Baptist University United International College.