

Yixuan Fang

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EDUCATION

South China Normal University

Sept. 2022 – Jun. 2026

Bachelor of Engineering in Software Engineering

- **GPA:** 91.7/100 (Rank: 5/88)
- **Coursework:** Python Programming Foundation(95), Java Programming(95), Object-Oriented Programming(95), Artificial Intelligence Foundation(99), Introduction to Software Engineering(95)

University of Aberdeen

Sept. 2022 – Jun. 2026

Bachelor of Engineering in Software Engineering (First Class Honors Expected)

Hong Kong University of Science and Technology (Guangzhou)

Sept. 2026 – Jun. 2028

Master of Philosophy

PUBLICATIONS

- [C.1] Li, J., Fang, Y. et al. (Accepted). **Beyond Public and Private: Facilitating Group Ideation with AI Mediation.** To appear in *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI 2026)*, April 13–17, 2026, Barcelona, Spain. ACM. (CCF-A)
- [C.2] Fang, Y.*, Xu, Z.*, et al. (2025). **CogMAS: A Cognitively-Grounded Multi-Agent Framework for Explainable and Consistent Open-Ended Student Response Scoring.** In *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics (SMC 2025)*, October 5–8, 2025, Vienna, Austria. IEEE. <https://doi.org/10.1109/SMC58881.2025.11343283> (CCF-C)
- [C.3] Fang, Y. (2025). **EduGraph: An Integration Framework of Large Language Models and Knowledge Graphs for Educational Assessment.** In *Proceedings of the 2nd International Conference on Educational Digitalization and Computer Science (EDCS 2025)*, April 18–20, 2025, Shenzhen, China. ACM. <https://doi.org/10.1145/3764206.3764275> (EI Indexed)

RESEARCH EXPERIENCE

Multi-Expert Fusion Framework for Human Activity Recognition from Video

Oct. 2025 – April. 2026

Visiting Student | Supervisor: Prof. Edward Chauch

University of Aberdeen

- Designed and implemented a **multi-branch fusion framework** integrating **RTMPose**, **RAM**, and **VideoMAEv2** for complementary pose, object, and motion evidence extraction, evaluated across 7 action classes
- Developed a **GPT-based LLM arbitrator** performing zero-shot fusion of multi-modal evidence via structured reasoning chains, achieving **98.3% mean class accuracy** on the Kaggle HAR Video Dataset
- **Outcome:** BSc Computer Science dissertation.

Human-AI Collaborative Systems for Group Ideation

July. 2025 – Oct. 2025

Research Assistant | Supervisor: Prof. Mingming Fan

HKUST(GZ)

- Contributed to the development of GraftMind, a novel AI-mediated collaboration system that enables users to ideate in independent workspaces while an AI mediator proactively shares collective knowledge across the team
- Designed and implemented a Shared Context Mechanism using semantic graph structures and cognitive state inference algorithms to provide three types of proactive assistance
- **Outcome:** One second-author paper accepted at CHI 2026 (CCF-A).

Multi-Agent Framework for Open-end Answer Grading

Feb. 2025 – May. 2025

Research Assistant | Supervisor: Prof. Huan Yang

SCNU

- Developed **CogMAS**, a cognitively-grounded multi-agent framework that addresses challenges in scoring consistency and interpretability for open-ended student responses
- Designed **Bloom's Taxonomy-based** Teacher Agents that perform dimension-specific evaluation, enhanced by **RAG** for exemplar-driven scoring and further optimized via **DPO** to align explanations with expert evaluations
- Designed a **dual-verification mechanism** using an Evaluation Agent that detects and corrects bias through multi-path generation and clustering analysis, significantly improving scoring reliability
- **Outcome:** One first-author paper accepted at IEEE SMC 2025 (CCF-C)

Automated Scoring of Subjective Questions Based on LLMs

Jan. 2024 – Dec. 2024

Research Assistant | Supervisor: Prof. Huan Yang

SCNU

- Developed a domain-specific **intelligent tutoring system** integrating LLMs and knowledge tracing for efficient automated scoring of subjective questions
- Fine-tuned LLMs using **p-tuning** and **RLHF** to improve scoring stability; additionally integrated **LSTM**, **BERT**, and **KTPromptCast** for enhanced task alignment.
- **Outcome:** Accepted paper at EDCS 2025 (EI Index)

Multifunctional Online Text Analysis Platform

Oct. 2023 – Dec. 2023

Project Leader | Supervisor: Prof. Chao He

SCNU

- Developed a comprehensive **text analysis platform** for keyword extraction, summarization, sentiment analysis, and fake news detection functionalities
- Built and optimized **hybrid classifiers** combining Random Forest and deep learning models to enhance multi-task text analysis accuracy
- **Outcome:** Third Prize (South China Division) in Network Technology Challenge Contest 2024.

PROFESSIONAL EXPERIENCE

Product Management Intern

May. 2025 – July. 2025

Midea Residential Air Conditioner Division, Midea Group Co., Ltd.

Guangdong, Foshan

- Supported design of **5 AI-powered agents** covering production-sales balance, planning, and manufacturing management; contributed to data governance agent deployment across **6 factories** serving **3,485+** monthly interactions
- Assisted in developing **AI coding platform** that improved development efficiency by **40%** and automated testing coverage from **8%** to **90%+**; helped reduce project delivery cycles by **25%**
- Developed **AI-driven competitive intelligence retrieval system** with multi-platform data extraction capabilities; achieved 40% retrieval efficiency improvement and 30% coverage expansion

Software Engineer Intern

May. 2024 – Sept. 2024

Project Department, Zhuhai LeTu Software Co., Ltd.

Guangdong, Zhuhai

- Co-developed and customized two **Warehouse Management Systems (WMS)**, improving the operational efficiency of the clients by **20%**
- Conducted on-site surveys for manufacturing clients to **gather requirements**, translating them into technical specifications, leading to five **customized software modules**
- Authored **40 pages** of documentation to support testing and onboarding for **10 software modules**, ensuring system reliability

ADDITIONAL EXPERIENCE

Summer School, The University of Hong Kong (*Institute of Data Science*)

July 2024

President, Table Tennis Association, SCNU

2024-2025

Deputy Secretary, Student Party Branch, SCNU

2025-2026

Secretary, Youth League Branch, Software Engineering Class of 2022

2022-2026

AWARDS & SCHOLARSHIPS

First-Class Comprehensive Scholarship (Top 3%), South China Normal University

2022-2025

Meritorious Winner Award (Top 10%), Mathematical Contest in Modeling

2024

Provincial Second Prize (Top 18%), National College Students Mathematical Modeling Contest

2024

Third Prize (South China Division, Top 40%), Network Technology Challenge Contest

2024

Provincial Level Project (Outstanding Project, Top 10%), College Students' Innovative Entrepreneurial Training Program

2024

SKILLS

Languages: Chinese Mandarin (native), English (IELTS: 6.5)

Programming Languages: Python (numpy, pandas, scikit-learn, matplotlib, nltk, jieba)

Software and Tools: SPSS, LaTeX, Markdown, Excel