

LIU Ziyang

Male

Guangzhou, China

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EDUCATION

Hong Kong University of Science and Technology (Guangzhou) since 09/2024

Program: Doctor of Philosophy in Internet of Things (IoT)

Supervisor: Kaishun Wu

Co-Supervisor: Xin Yang

Research Interests: AIoT, smart sensing, and medical AI

The Chinese University of Hong Kong 09/2022-11/2023

Program: Master of Science in Information Engineering

Degree: Master's Degree in Science (GPA: 3.5/4.0)

The University of Essex 09/2018-06/2022

Program: Electronic Systems Engineering (Cooperate with the Northwest University)

Degree: Bachelor of Science with Honors Class I

Northwest University 09/2018-06/2022

Program: Electronic Information Science and Technology (Cooperate with the University of Essex)

Degree: Bachelor of Engineering (GPA: 3.5/4.0)

PUBLICATIONS

Ziyang Liu, Ruiqiang Xiao, Chang Huang, Kieren Yu, Siyuan He, Kaishun Wu. 2026. Cardio-mmFlow: A Gaussian-Prior-Free Physics-Informed Flow Matching Framework for Electrocardiogram to mmWave Radar Synthesis. In *Proceedings of the 43rd International Conference on Machine Learning (ICML '26)*.

Kieren Yu, **Ziyang Liu**, Chang Huang, and Kaishun Wu. 2026. PATCHCODE: Discrete Latent Predictive Learning for EEG Foundation Model. In *Proceedings of the 43rd International Conference on Machine Learning (ICML '26)*.

Ziyang Liu, Siyuan He, Feng Liang, Chang Huang, Shuxin Zhong, and Kaishun Wu. 2026. mmJEPA-ECG: Cross-Posture Robust Contactless Electrocardiogram Monitoring via Millimeter Wave Radar Sensing. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI '26)*, Vol. 40, No. 45, 38962–38970.

Ziyang Liu, and Xiangyi Yin. "Natural language sentiment analysis system based on self-designed deep learning framework." *International Core Journal of Engineering* 7.12 (2021): 322-330.

WORK EXPERIENCE

GridLink Ltd 02/2024-07/2024

AI Algorithm Engineer

Shen Zhen, Guang Dong

- Leading the RF-ECG project. Build a system with mmWave Radar and ARM (Android system) which can measure user's ECG in real-time. This research has passed the China national clinical registration and will be tested at Xiamen Hongai Hospital in the near future.

Wireless IoT Lab, The Chinese University of Hong Kong 07/2023-02/2024

Junior Research Assistant

Hong Kong

- Working as in professor Chen He's team. Major in IoT sensing and AI technology. Participated projects include RF electrocardiogram system, electrocardiogram and corresponding radar signal generation

AIoT Lab The Chinese University of Hong Kong & ThingX, Ltd,

04/2023-06/2023

Student Helper Engineer

Hong Kong

- Participate in baby breath monitoring project, fall detection project based on thermal image. Working both in AIoT Lab and ThingX Ltd at HK science Park.

China Mobile Communications Group Co., Ltd

04/2023-06/2023

Data analyzer Intern engineer

Baoding, Hebei

- Participated in the “customer data analyzing and collation” project.

AWARDS & PRIZE

2024-2028 Full Scholarship for Ph.D.

HKUST(GZ), CHINA

2021 Scholarship for Outstanding Leader

NWU, CHINA

2019 Scholarship for Outstanding Leader

NWU, CHINA

Prize:

2021 Provincial Second Prize of the 2021 National Computer Design Competition for College Students

2019 Outstanding Individual in Poverty Alleviation Practice Project in the Countryside

SKILLS LIST

- Proficient in signal processing
- Proficient in AI architecture and deep learning model
- Proficient in UWB radar, millimeter wave radar and its corresponding development procedure
- Familiar with FPGA programming, PYNQ architecture
- IELTS 7.0 (Reading 8/ Listening 8.5/ Writing 6/ Speaking 6/)