

Fei Wu

E-mail: fw407@exeter.ac.uk Homepage: <https://fei407.github.io/>

EDUCATION

| | |
|---|------------------------|
| University of Exeter, United Kingdom | Oct. 2023 – Present |
| Ph.D. in Computer Science | |
| • Fully funded by the China Scholarship Council and University of Exeter (CSC-Exeter) | |
| University of Electronic Science and Technology of China (UESTC), China | Sept. 2019 – July 2022 |
| M.Eng. in Electronic and Communication Engineering (Ranked 23/332) | |
| • Ranked 23rd out of 332 students (Top 7%) | |
| Chengdu University of Technology (CDUT), China | Sept. 2015 – July 2019 |
| B.Eng. in Electronic and Information Engineering | |
| • Ranked 1st out of 135 students (Top 1%), admitted to master's program without entrance examination. | |

RESEARCH PUBLICATIONS

- [1] F. Wu, J. Hu, G. Min, S. Wang, "[Efficient Orthogonal Fine-Tuning with Principal Subspace Adaptation](#)," *The Fourteenth International Conference on Learning Representations (ICLR)*, April, 2026.
- [2] F. Wu, J. Hu, G. Min, S. Wang, "[Adaptive Rank Allocation for Federated Parameter-Efficient Fine-Tuning of Language Models](#)," *IEEE Transactions on Computers (TC)*, Accepted, Jan. 2026.
- [3] Y. Liu, F. Wu, N. Zhao et al., "[NVP: A Flexible and Efficient Processor Architecture for Accelerating Diverse Computer Vision Tasks including DNN](#)," *IEEE Transactions on Circuits and Systems II: Express Briefs (TCAS-II)*, vol. 70, no. 1, pp. 271-275, Jan. 2023.

INDUSTRIAL PROJECTS

| | |
|---|-------------|
| Pedestrian Tracking and Following for Mobile Robot SLAM (RuiXinXing Co., Ltd.) | 2022 – 2023 |
| <u>Objective:</u> Enable reliable tracking and following of a designated pedestrian for mobile robot SLAM. | |
| <u>Responsibilities:</u> 1. Implement PySOT on Jetson Xavier; 2. Develop a tracking method via LiDAR-vision fusion. | |
| NVP: Neural Visual Processor (SenseTime Co., Ltd.) | 2020 – 2022 |
| <u>Objective:</u> design a general-purpose image processor supporting CNN inference, filtering, and stereo matching. | |
| <u>Responsibilities:</u> 1. Design of hardware architecture and multi-core Segmented Ring Bus; 2. Verification and test of single-core prototype on FPGA; 3. PPA evaluation of the multi-core design using a 40 nm CMOS technology. | |
| FPGA Hardware Accelerator for MRI Segmentation (West China Hospital of Sichuan Hospital) | 2019 – 2020 |
| <u>Objective:</u> accelerate MRI segmentation using a level-set method on FPGA. | |
| <u>Responsibilities:</u> 1. Design of parallel hardware; 2. UART implementation; 3. FPGA-based demo development | |
| Weightel: Vehicle Intelligent Weighing System (Griffith-Elder Co., Ltd. & Camrong Co., Ltd.) | 2020 – 2022 |
| <u>Objective:</u> Enable real-time in-vehicle weight measurement for industrial vehicles. | |
| <u>Responsibilities:</u> 1. Design of weighing and aggregation nodes for measurement; 2. In-vehicle communication protocol design using CAN bus; 3. System integration and validation in real-world operating environments. | |

AWARDS & HONORS

| | |
|--|-------------|
| Competitions | |
| • National Third Prize, The China Graduate Circuit Design Contest | 2021 |
| • National Second Prize and Third Prize, The China Graduate Electronics Design Contest | 2020 – 2021 |
| • National Second Prize , Huawei Special Competition, The China Graduate Electronics Design Contest | 2020 |
| Honors | |
| • Outstanding Graduate of Sichuan Province, China | 2022 |
| • Outstanding Graduate of University of Electronic Science and Technology of China | 2022 |
| Scholarships | |
| • CSC-Exeter Scholarship and the additional Limetree Capital PhD Scholarship | 2023 – 2027 |
| • First-Class Academic Scholarship of University of Electronic Science and Technology of China | 2021 |
| • Outstanding Student Scholarship of Chengdu University of Technology | 2016 – 2018 |

SKILLS

| | |
|------------------|--|
| Certifications | AMD training on <i>Accelerating Your Application with AMD GPUs</i> NVIDIA training on <i>Efficient Large Language Model (LLM) Customization</i> . |
| Technical Skills | <u>Software:</u> PyCharm, Vivado, MATLAB, VS Code; <u>Libraries:</u> PEFT, Flower, Transformers; <u>Programming Languages:</u> Python, C, C++, Verilog, SystemVerilog, VHDL |
| Language Skills | Native Mandarin speaker; fluent in English |