

# Fei Wu

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## EDUCATION

<i>University of Exeter, United Kingdom</i>	Oct. 2023 – Present
Ph.D. in Computer Science	
• Fully funded by the China Scholarship Council and University of Exeter ( <b>CSC-Exeter</b> )	
<i>University of Electronic Science and Technology of China (UESTC), China</i>	Sept. 2019 – July 2022
M.Eng. in Electronic and Communication Engineering (Ranked 23/332)	
• Ranked <b>23rd</b> out of 332 students ( <b>Top 7%</b> )	
<i>Chengdu University of Technology (CDUT), China</i>	Sept. 2015 – July 2019
B.Eng. in Electronic and Information Engineering	
• Ranked <b>1st</b> out of 135 students ( <b>Top 1%</b> ), 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

<b>Pedestrian Tracking and Following for Mobile Robot SLAM</b> ( <i>RuiXinXing Co., Ltd.</i> )	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.	
<b>NVP: Neural Visual Processor</b> ( <i>SenseTime Co., Ltd.</i> )	2020 – 2022
Objective: 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.	
<b>FPGA Hardware Accelerator for MRI Segmentation</b> ( <i>West China Hospital of Sichuan Hospital</i> )	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	
<b>Weightel: Vehicle Intelligent Weighing System</b> ( <i>Griffith-Elder Co., Ltd. &amp; Camrong Co., Ltd.</i> )	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

<b>Competitions</b>	
• National Third Prize, The China Graduate Circuit Design Contest	2021
• <b>National Second Prize</b> and Third Prize, The China Graduate Electronics Design Contest	2020 – 2021
• <b>National Second Prize</b> , Huawei Special Competition, The China Graduate Electronics Design Contest	2020
<b>Honors</b>	
• Outstanding Graduate of Sichuan Province, China	2022
• Outstanding Graduate of University of Electronic Science and Technology of China	2022
<b>Scholarships</b>	
• 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