Shihan Wu

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Personal Summary

Computer Science Master's candidate at University of Electronic Science and Technology of China (UESTC) (**Top 1.3%** in School), specializing in:
› High-efficiency transfer learning for **Vision-Language Models**
› Training and test-time adaptation for **Vision-Language-Action (VLA) models**
Published 2 **CVPR (CCF-A)** papers as **first/co-first author**, with 2 more under review. Awarded **National Scholarship** and **Outstanding Graduate** honors.

Education

UESTC Master of Engineering in Computer Science and Technology *Sep 2023 - Jun 2026*
› **Academic Performance**: GPA 3.94/4.0 | **Rank: 6/454 (Top 1.3%)**
› **Honors**: **National Scholarship**, Outstanding Graduate Student, First-Class Academic Scholarship

UESTC Bachelor of Software Engineering *Sep 2019 - Jun 2023*
› **Academic Performance**: GPA 3.94/4.0 | **Rank: 18/181 (Top 10%)** | *CET-4/6: 579/467*
› **Honors**: **Outstanding Graduate**, "Shiqiang" Special Scholarship, Outstanding Student Scholarship

Research Publications

[Under Review · Co-First Author] *Policy Contrastive Decoding for Robotic Foundation Models* *Sep 2025*
› Universal framework for multiple VLA architectures, achieving **+8%∼41% improvement without training**
[Under Review · Co-First Author] *InSpire: VLA Models with Intrinsic Spatial Reasoning* *Sep 2025*
› Reducing **spurious correlations** in VLAs, boosting performance on seen **(+6.2%)** and unseen **(+10%)** tasks
[CVPR 2025 (CCF-A) · First Author] *Skip Tuning: Pre-trained Vision-Language Models are Effective and Efficient Adapters Themselves* *Dec 2024*
› **Parameter-free** adaptation method, **+1.04% accuracy** with **15× speedup** and **6.4× memory efficiency**
[CVPR 2024 (CCF-A) · Co-First Author] *DePT: Decoupled Prompt Tuning* *Nov 2023*
› Plug-and-play method providing **+0.67%∼2.65% gains** across prompt tuning baselines

Internship Experience

Beijing Academy of Artificial Intelligence (BAAI) Research Intern · Embodied AI *Jun 2025 - Oct 2025*
› Exploring **capacity pyramid** in VLA, designing **large-scale bimanual dataset** with **hierarchical skill labels**

Intellectual Property

[Pending · Student First-Inventor] Vision-Language Model Fine-tuning Method *Feb 2025*
[Pending · Student Second-Inventor] Low-Frequency Enhanced Few-Shot Adaptation Method *Aug 2024*

Projects

Radar Signal Detection System · Algorithm Engineer *Mar 2024 - Jul 2024*
› Developed **feature extraction** network and **open-set detection**| algorithms enhancing recognition accuracy
Intelligent Driving Safety System · Full-stack Developer *Apr 2022 - Aug 2022*
› database schema, distributed backend and containerized deployment

Awards

National Meritorious Winner, Mathematical Contest in Modeling (MCM) *Apr 2021*
National Bronze Award, China "Internet+" College Student Innovation Competition *Dec 2021*
Provincial First Prize, Chengdu National Software Design and Application Competition *Oct 2021*
Provincial Second Prize, China Undergraduate Mathematical Contest in Modeling *Sep 2021*
Provincial Silver Award, "Challenge Cup" College Student Entrepreneurship Competition *Jun 2022*

Technical Skills

Core Expertise: VLMs (CLIP, LLaVA) and Fine-tuning (Prompt Tuning, LoRA), VLAs (OpenVLA, π_0, etc.)
Languages: Python, Java, C, C#, JavaScript, SQL, etc.
Frameworks: PyTorch, Keras, MMDetection, Scikit-learn, etc.
Engineering: Web (Vue/SpringBoot), Databases (MySQL/Redis), DevOps (Docker), Game (Unity3D), Mobile