Yiming Shi

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EDUCATION

University of Electronic Science and Technology of China　　　September 2021 – Present
Major Double: Computer Science & Finance　　　　　　　　　　　　　*Chengdu, China*

EXPERIENCE

Tsinghua SAIL Group (TSAIL)　　　　　　　　　　　　　　　　July 2024 – Present
Tsinghua University　　　　　　　　　　　　　　　　　　　　　*Research Intern*
Center for Future Media　　　　　　　　　　　　　　　　　　May 2023 – Present
University of Electronic Science and Technology of China　　　　　*Research Intern*
Star Studio　　　　　　　　　　　　　　　　　　　　November 2022 – Present
Official Workshop of UESTC　　　　　　　　　　　　　　　　　　　*Member*

RESEARCH INTERESTS

Efficient AI, Parameter-Efficient-Fine-Tuning (PEFT), Diffusion, Multimodal, VLMs

COMPETITION ACHIEVEMENTS

- **Third Prize** and **Ranking: 4/815** in the International Algorithm and Case Competition (IACC),

PUBLICATION IN PREPARATION

LoLDU: Low-Rank Adaptation via Lower-Diag-Upper Decomposistion　　　June 2024
First Author　　　　　　　*IEEE Transactions on Neural Nerwork and Learning System*
DiffLoRA: Generating Personalized Low-Rank Adaptation Weights with Diffusion　March 2024
Co-Author　　　　　　　　　　　　　　　　　　　　　　　　　*AAAI 2025*
SVFit: Parameter-Efficient Fine-Tuning of Large Pre-Trained Models Using Singular Values　April 2024
Co-Author　　　　　　　*IEEE Transactions on Circuits and Systems for Video Technology*

PROJECT EXPERIENCE

Efficient and reliable text-to-image generation | Diffusion, LoRA, Docker　　August 2023 – December 2023
Project Leader　　　　　　　　　　　　　　　　　　　　　　　*IACC Challenge*

- **Data Processing:** Create a pipeline to obtain high-quality portrait text-pair dataset for fine-tuning Unidiffuser.
- **Algorithm Enhancement:** Leverage DDIM algorithm to improve inference speed.
- **Image Processing:** Utilizing image2image method for editing input images.

PROFESSIONAL SKILLS

- Familiar with PyTorch, Pytorch Lightning, Hydra, PEFT, Diffusers, Transformers, Shell Script, Matplotlib.
- Skilled in leveraging Parameter-Efficient Fine-Tuning (PEFT) across different models and domains.
- Experienced in Linux development and working as an MLOps.