

Yiming Shi

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EDUCATION

University of Electronic Science and Technology of China
Major Double: Computer Science & Finance

September 2021 – Present
Chengdu, China

EXPERIENCE

Tsinghua SAIL Group (TSAIL)

Tsinghua University

July 2024 – Present

Research Intern

Center for Future Media

University of Electronic Science and Technology of China

May 2023 – Present

Research Intern

Star Studio

Official Workshop of UESTC

November 2022 – Present

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 Decomposition

First Author

June 2024

PEFT, LDU

DiffLoRA: Generating Personalized Low-Rank Adaptation Weights with Diffusion

Co-Author

March 2024

Diffusion, Weight2Weight

SaRA: Optimizing Singular Value for Low-Rank Adaptation

Co-Author

April 2024

PEFT, SVD

PROJECT EXPERIENCE

Fine-tuning Multimodal Diffusion for Customization | 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.