

Yiming Shi

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EDUCATION

University of Electronic Science and Technology of China

Internet+ Dual Degree Program

Double Major: Computer Science, Finance

September 2021 – Present

Chengdu, China

EXPERIENCE

Tsinghua SAIL Group (TSAIL), Tsinghua University

Co-advised by Prof. Jun Zhu and Dr. Zehua Chen

Currently working with Dr. Duo Su in the area of dataset distillation, with a focus on Efficient AI.

July 2024 – Present

Research Intern

Center for Future Media, University of Electronic Science and Technology of China

Co-advised by Prof. Yang Yang and Dr. Jiwei Wei

Secured 4th in IACC, authored a paper in TNNLS, and co-authored two in AAAI and TCSVT, focusing on PEFT and Diffusion.

May 2023 – July 2024

Research Intern

Star Studio, UESTC

Official Workshop

November 2022 – May 2023

DevOps Team Member

RESEARCH INTERESTS

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

I'm deeply passionate about deep learning and its applications in *these fields*.

COMPETITION ACHIEVEMENTS

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

PUBLICATION

LoLDU: Low-Rank Adaptation via Lower-Diag-Upper Decomposition

First Author | June 2024 | IEEE Transactions on Neural Networks and Learning Systems

In preparation

LoDD: LoRA-based Dataset Distillation Approach

Co-Author | September 2024 | CVPR 2025

In preparation

DiffLoRA: Generating Personalized Low-Rank Adaptation Weights with Diffusion

Co-Author | August 2024 | AAAI 2025

Under Review

SVFit: Parameter-Efficient Fine-Tuning of Large Pre-Trained Models Using Singular Values

Co-Author | September 2024 | IEEE Transactions on Circuits and Systems for Video Technology

Submitted

PROJECT EXPERIENCE

Efficient and Reliable Text-to-Image Generation | Diffusion, LoRA, Docker

Project Leader

August 2023 – December 2023

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.