

Yiming Shi

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EDUCATION

University of Electronic Science and Technology of China
Undergraduate in Internet+ Dual Degree Program
Double Major: Computer Science, Finance

September 2021 – Present
Chengdu, China

EXPERIENCE

Tsinghua SAIL Group (TSAIL), Tsinghua University

July 2024 – Present

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

Research Intern

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

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

May 2023 – July 2024

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

Research Intern

During my studies, I participated in the International Algorithm Exemplars Competition (IACC) for the Guangdong-Hong Kong-Macao Greater Bay Area in the track of Efficient and Reliable Text-to-Image Generation, where I achieved fourth place (4/815) in the finals. Additionally, I submitted a manuscript to IEEE Transactions on Neural Networks and Learning Systems (TNNLS) as the first author and co-authored two other papers, which were submitted to the Association for the Advancement of Artificial Intelligence (AAAI) and IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), respectively. My primary research interests include Parameter-Efficient Fine-Tuning (PEFT) and diffusion models.

Star Studio, UESTC

November 2022 – May 2023

Official Campus Forum Workshop

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

LoDD: LoRA-based Dataset Distillation Approach

In preparation

Co-Author | September 2024 | CVPR 2025

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

Submitted

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

DiffLoRA: Generating Personalized Low-Rank Adaptation Weights with Diffusion

Under Review

Co-Author | August 2024 | AAAI 2025

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

Submitted

Co-Author | September 2024 | 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.