

# Yiming Shi

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## EDUCATION

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### 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

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### 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 Prof. Jiwei Wei*

*During my studies, I participated in the International Algorithm Case 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.*

May 2023 – July 2024

Research Intern

### Star Studio, UESTC

*Official Campus Forum Workshop*

November 2022 – May 2023

DevOps Team Member

## RESEARCH INTERESTS

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***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

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

## PUBLICATION

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### LoDD: LoRA-based Dataset Distillation Approach

*Co-Author* | September 2024 | CVPR 2025

In preparation

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

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

Submitted

### 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

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

August 2023 – December 2023  
*IACC Challenge*

- This track aimed to optimize and improve the portrait generation system based on Unidiffuser. The project included three core modules: data processing, algorithm optimization, and image editing. By constructing a high-quality dataset for model fine-tuning, optimizing inference performance, and providing image editing functionality, we achieved an efficient and practical portrait generation and editing system.
- As the project leader, I was mainly responsible for three aspects:
  - Designing and implementing a data processing pipeline to construct a high-quality portrait-text pair dataset for fine-tuning the Unidiffuser model.
  - Optimizing inference speed using the DDIM algorithm.
  - Developing image editing functionality based on the image2image technique to enable flexible editing of input images.

Our final round code is available [here](#), and the preliminary round code is available [here](#).

## PROFESSIONAL SKILLS

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- 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.