

Yiming Shi

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RESEARCH INTERESTS

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

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

EDUCATION

The University of Queensland

Incoming Ph.D. in Computer Science | QS Top 50

Co-advised by Prof. Zhifeng Bao and Dr. Hai Lan

Starting July 2025

Brisbane, Australia

University of Electronic Science and Technology of China

Undergraduate in Internet+ Dual Degree Program | Project 985

Double Major: Computer Science, Finance

September 2021 – Expected June 2025

Chengdu, China

EXPERIENCE

Center of Machine Learning Research, Peking University

Interim Algorithm Leader, co-advised by Prof. Bin Cui and Prof. Wentao Zhang

Leading the algorithm team at Diffuse Future Ltd. (Prof. Bin Cui's startup) for video model pre-training and

data preparation, responsible for managing the Conditioned Consistent Generation project and processing and organizing of 30TB video dataset (7 million videos) for large-scale model pre-training.

November 2024 – Present

Project Manager

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, targeting ICCV

2025.

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

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 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) and IEEE Transactions on Multimedia (TMM), respectively. During this period, my research focused on Parameter-Efficient Fine-Tuning (PEFT) and diffusion models.

May 2023 – July 2024

Research Intern

Star Studio, UESTC

Official BBS

Maintained the university's BBS platform.

November 2022 – May 2023

DevOps Team Member

COMPETITION ACHIEVEMENTS

- **First Prize** in the Social Cognition and Decision Competition finals hosted by Chinese Institute of Command and Control (CICC)
- **Third Prize** and **Ranking: 4/815** in the 2th International Algorithm and Case Competition (IACC)

PUBLICATION

LoLDU: Low-Rank Adaptation via Lower-Diag-Upper Decomposition <i>First Author IEEE Transactions on Neural Networks and Learning Systems</i> ◊ Cited by Prof. Andrew Chi-Chih Yao, Turing Award Laureate, Tsinghua IIIS	Major Revision
DiffLoRA: Generating Personalized Low-Rank Adaptation Weights with Diffusion <i>Co-Author CVPR 2025</i>	Under Review
SVFit: Parameter-Efficient Fine-Tuning of Large Pre-Trained Models Using Singular Values <i>Co-Author IEEE Transactions on Multimedia</i>	Under Review
DAP: Diffusion as a Prior for Datasets Distillation <i>Co-Author Targeting ICCV 2025</i>	In preparation

PROJECT EXPERIENCE

Conditioned Consistent Generation Video Processing & Pre-training <i>Project Manager</i>	November 2024 – Present <i>PKU & Diffuse Future Ltd.</i>
<ul style="list-style-type: none">• Leading algorithm team development of large-scale video generation model with conditioned consistent generation• Managing processing and organization of 30TB video dataset (7M videos) for model pre-training• Designing and implementing efficient data processing pipelines with quality control measures• Collaborating with Prof. Bin Cui and Prof. Wentao Zhang to align technical direction with research goals	
Efficient and Reliable Text-to-Image Generation Diffusion, LoRA <i>Project Leader</i>	August 2023 – December 2023 <i>IACC Challenge</i>
<ul style="list-style-type: none">• Led development of optimized portrait generation system based on Unidiffuser, achieving 4th place among 815 teams• Key contributions as project leader:<ul style="list-style-type: none">– Designed data processing pipeline for high-quality portrait-text dataset construction– Optimized inference performance using DDIM algorithm– Developed image editing functionality using image2image techniques• Project code available on GitHub for final round and preliminary round	

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.