

Jiazi Bu

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Education

PhD	Shanghai Jiao Tong University , Computer Science and Technology	Shanghai, China
	• Advisor: Prof. Dahua Lin .	Sept 2025 – Now
	• Research Fields: Generative Models (2D AIGC), Computer Vision.	
BEng	Shanghai Jiao Tong University , Artificial Intelligence (GuoZhi Class Programme)	Shanghai, China
	• GPA: 4.04/4.3; Average Score: 93.10/100; Rank: 5/95 (TOP 5%).	Sept 2021 – June 2025
	• Languages: TOEFL iBT 105 (R:29, L:27, S:23, W:26); CET4: 636; CET6: 612.	
	• Skills: Python, C++, C, LaTeX. Familiar with <i>PyTorch</i> and <i>Diffusers</i> .	
	• Related Coursework: Mathematical Analysis (A+), Linear Algebra (A), Data Structure (A+), Data Mining (A+), Algorithm Design and Analysis (A+), Deep Learning (A+), Computer Vision (A-), Reinforcement Learning (A+).	

Experience

Shanghai Artificial Intelligence Laboratory , Undergraduate & Ph.D. Research Intern	Shanghai, China
• Research Fields: Generative Models and Large Vision-Language Models.	Nov 2023 – Now
• Mentor: Jiaqi Wang , Pan Zhang , Xiaoyi Dong , Yuhang Zang and Tong Wu .	
SJTU ReThinklab , Undergraduate Research Assistant	Shanghai, China
• Research Fields: Computer Vision and AI4Science.	Oct 2022 – May 2024
• Advisor: Prof. Junchi Yan .	

Publications (* indicates Co-First author)

[NeurIPS 2025] HiFlow: Training-free High-Resolution Image Generation with Flow-Aligned Guidance	
Jiazi Bu* , Pengyang Ling*, Yujie Zhou*, Pan Zhang, Tong Wu, Xiaoyi Dong, Yuhang Zang, Yuhang Cao, Dahua Lin, Jiaqi Wang	
Page Paper Code	
[CVPR 2025] ByTheWay: Boost Your Text-to-Video Generation Model to Higher Quality in a Training-free Way	
Jiazi Bu* , Pengyang Ling*, Pan Zhang, Tong Wu, Xiaoyi Dong, Yuhang Zang, Yuhang Cao, Dahua Lin, Jiaqi Wang	
Page Paper Code	
[Under Review] DiCache: Let Diffusion Model Determine Its Own Cache	
Jiazi Bu* , Pengyang Ling*, Yujie Zhou*, Yibin Wang, Yuhang Zang, Tong Wu, Dahua Lin, Jiaqi Wang	
Page Paper Code	
[ICLR 2025] MotionClone: Training-free Motion Cloning for Controllable Video Generation	
Pengyang Ling*, Jiazi Bu* , Pan Zhang, Xiaoyi Dong, Yuhang Zang, Tong Wu, Huaiyan Chen, Jiaqi Wang, Yi Jin	
Page Paper Code	
[ICCV 2025] Light-A-Video: Training-free Video Relighting via Progressive Light Fusion	
Yujie Zhou*, Jiazi Bu* , Pengyang Ling*, Pan Zhang, Tong Wu, Qidong Huang, Jinsong Li, Xiaoyi Dong, Yuhang Zang, Yuhang Cao, Anyi Rao, Jiaqi Wang, Li Niu	
Page Paper Code	
[Under Review] Fine-Grained GRPO for Precise Preference Alignment in Flow Models	
Yujie Zhou*, Pengyang Ling*, Jiazi Bu* , Yibin Wang, Yuhang Zang, Jiaqi Wang, Li Niu, Guangtao Zhai	
Page Paper Code	
[Under Review] UniGenBench++: A Unified Semantic Evaluation Benchmark for Text-to-Image Generation	
Yibin Wang*, Zhimin Li*, Yuhang Zang*, Jiazi Bu , Yujie Zhou, Chunyu Wang, Qinglin Liu, Cheng Jin, Jiaqi Wang	

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[Under Review] Pref-GRPO: Pairwise Preference Reward-based GRPO for Stable Text-to-Image Reinforcement Learning (& *UniGenBench* proposed in this work)

Yibin Wang*, Zhimin Li*, Yuhang Zang*, Yujie Zhou, **Jiazi Bu**, Chunyu Wang, Qinglin Liu, Cheng Jin, Jiaqi Wang

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[NeurIPS 2024] Unveiling The Matthew Effect Across Channels: Assessing Layer Width Sufficiency via Weight Norm Variance

Yiting Chen, **Jiazi Bu**, Junchi Yan

[Paper ↗](#) / [Code ↗](#)

[AAAI 2024] ViTree: Single-Path Neural Tree for Step-Wise Interpretable Fine-Grained Visual Categorization

Danning Lao, Qi Liu, **Jiazi Bu**, Junchi Yan, Wei Shen

[Paper ↗](#) / [Code ↗](#)

[SCIENCE CHINA Information Sciences] Drug-drug Interaction Prediction via Hierarchical Structure Modeling

Huaijin Wu, **Jiazi Bu**, Nianzu Yang, Yao Sun, Haitao Song, Ning Liu, Junchi Yan

[Paper ↗](#) / [Code ↗](#)

Projects

[arXiv 2023] MetaScript: Few-Shot Handwritten Chinese Content Generation via Generative Adversarial Networks

[Report ↗](#) / [Code ↗](#)

- **Jiazi Bu***, Qirui Li*, Kailing Wang*, Xiangyuan Xue*, Zhiyuan Zhang*
- Developed a novel Chinese content generation system that can specify styles based on Generative Adversarial Networks (GANs).
- Tools Used: Python, LaTeX.

DeepMovie

[Poster ↗](#) / [Code ↗](#)

- **Jiazi Bu***, Zhiyuan Zhang*, Xizhuo Zhang*
- Developed a plug-and-play DNN training pipeline turning most deep learning base modules into a movie recommender system.
- Tools Used: Python.

VR Pacman

[Code ↗](#)

- Xiangyuan Xue, **Jiazi Bu**, Hanglei Zhang, Zhulin Hu, Qirui Li
- Developed a 3D first-person Pac-Man game using the Unity engine.
- Tools Used: C, C++, Unity.

Honors & Awards

Ye Jun and Shen Nanpeng Outstanding Scholarship

2025

- ¥ 20000, received as **one of the TOP 30 graduates** of SJTU.

Zhiyuan Honors Scholarship

2021, 2022, 2023, 2024

- ¥ 5000 per year, received as part of the *SJTU Zhiyuan Honors Programme*.

Guozhi Scholarship

2022

- ¥ 8000, received as being in the **TOP 15%** of SJTU AI students.

SJTU Undergraduate Scholarship

2022, 2023, 2024, 2025

CUMCM National First Prize (TOP 0.55%) & First Prize in Shanghai Chapter

2023

SJTU Zhiyuan Honor Bachelor's Degree

2025

SJTU President Award

2023

- Received for serving as a student volunteer during the COVID-19 pandemic.

SJTU Outstanding Freshman Training Camp Member	2021
SJTU Outstanding Graduate	2025
SJTU Outstanding Bachelor's Thesis of School of Computer Science	2025
SJTU Best Bachelor's Thesis (TOP 1%)	2025

Services

Academic Reviewer

- Conference Reviewer: ICLR 2026.
- Journal Reviewer: **IEEE T-PAMI**.

Volunteer

- Student Volunteer: during the COVID-19 pandemic (for **55 hours**); CUMCM 2024.