

Jiazi Bu

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🌐 Bujiazi

Education

BE	Shanghai Jiao Tong University , Artificial Intelligence (Guozhi Class)	Sept 2021 – June 2025
	<ul style="list-style-type: none"> • GPA: 4.04/4.3; Average Score: 93.10/100; Rank: 5/95 (TOP 5%). • Languages: TOEFL iBT 105; CET4: 636; CET6: 612. • Skills: Python, C++, C, LaTeX. Familiar with <i>PyTorch</i> and <i>Diffusers</i>. • Research Interests: Generative Models (2D AIGC), Computer Vision. • Related Coursework: Mathematical Analysis, Linear Algebra, Data Structure, Computer Vision, Data Mining, Reinforcement Learning. 	

Experience

Shanghai Artificial Intelligence Laboratory , Research Intern	Shanghai, China Nov 2023 – Now
<ul style="list-style-type: none"> • Research Fields: Generative Models and Large Vision-Language Models. • Mentor: Dr. Jiaqi Wang. • Supervised by Prof. Dahua Lin. 	
SJTU ReThinklab , Research Intern	Shanghai, China Oct 2022 – May 2024
<ul style="list-style-type: none"> • Research Fields: Computer Vision and AI4Science. • Supervised by Prof. Junchi Yan. 	

Publications (* indicates Co-First author)

[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

Paper [🔗](#) / Code [🔗](#)

[Under Review] 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

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[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

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, Huaian Chen, Jiaqi Wang, Yi Jin

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[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

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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](#)

[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, received as part of the Zhiyuan Honor Program.

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 Best Bachelor's Thesis (TOP 1%)

2025