

Jiazi Bu

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🌐 Bujiazi

Education

B.S. Shanghai Jiao Tong University (SJTU), Artificial Intelligence (GuoZhi Class)

Shanghai, China
Sept 2021 – June 2025

- **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 *PyTorch* and *Diffusers*.
- **Research Interests:** Generative Models (2D AIGC), Computer Vision.
- **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, Ph.D. (Sept 2025 -) & Research Intern

Shanghai, China
Nov 2023 – Now

- Research Fields: Generative Models and Large Vision-Language Models.
- Advisor: Prof. [Dahua Lin](#).
- Mentor: Dr. [Jiaqi Wang](#), Dr. [Yuhang Zang](#) and Dr. [Tong Wu](#).

SJTU ReThinklab, Research Intern

Shanghai, China
Oct 2022 – May 2024

- Research Fields: Computer Vision and AI4Science.
- 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
[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, Huaian 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] G²RPO: Granular GRPO for Precise Reward in Flow Models

Yujie Zhou*, Pengyang Ling*, **Jiazi Bu***, Yibin Wang, Yuhang Zang, Jiaqi Wang, Li Niu, Guangtao Zhai
[Page](#) / [Paper](#) / [Code](#)

[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

[Page](#) / [Paper](#) / [Code \(Pref-GRPO\)](#) / [Code \(UniGenBench\)](#)

[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, 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