Jiazi Bu

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Education

B.E. **Shanghai Jiao Tong University**, Artificial Intelligence (*GuoZhi Class Programme*)   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 (R:29, L:27, S:23, W:26); 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, *Undergraduate* Research Assistant   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
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[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
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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
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[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] 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
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[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).

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 Best Bachelor's Thesis (TOP 1%)   2025

Services

Academic Reviewer
- Conference Reviewer: ICLR 2026.

Volunteer
- Student volunteer (for **55 hours**) during the COVID-19 pandemic.