

# Jiazi Bu

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## Education

<b>PhD</b>	<b>Nanyang Technological University</b> , College of Computing and Data Science	Singapore
	• <b>Advisor:</b> Prof. <a href="#">Xingang Pan</a> .	Sept 2026 (Expected)
	• <b>Programme:</b> <a href="#">NTU-SJTU Joint PhD Degree Programme</a> .	
<b>PhD</b>	<b>Shanghai Jiao Tong University</b> , Computer Science and Technology	Shanghai, China
	• <b>Advisor:</b> Prof. <a href="#">Dahua Lin</a> .	Sept 2025 – Now
	• <b>Programme:</b> <a href="#">NTU-SJTU Joint PhD Degree Programme</a> .	
<b>BEng</b>	<b>Shanghai Jiao Tong University</b> , Artificial Intelligence ( <a href="#">GuoZhi Class Programme</a> )	Shanghai, China
	• <b>GPA:</b> 4.04/4.3; <b>Average Score:</b> 93.10/100; <b>Rank:</b> 5/95 ( <b>TOP 5%</b> ).	Sept 2021 – June 2025
	• <b>Languages:</b> TOEFL iBT 105 (R:29, L:27, S:23, W:26); CET4: 636; CET6: 612.	
	• <b>Related Coursework:</b> 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

<b>Shanghai Artificial Intelligence Laboratory</b> , Undergraduate & PhD Research Intern	Shanghai, China
• Research Fields: Generative Models and Large Vision-Language Models.	Nov 2023 – Now
• Mentors: <a href="#">Jiaqi Wang</a> , <a href="#">Pan Zhang</a> , <a href="#">Xiaoyi Dong</a> , <a href="#">Yuhang Zang</a> and <a href="#">Tong Wu</a> .	
<b>SJTU ReThinklab</b> , Undergraduate Research Assistant	Shanghai, China
• Research Fields: Computer Vision and AI4Science.	Oct 2022 – May 2024
• Advisor: Prof. <a href="#">Junchi Yan</a> .	

## Publications (\* indicates Co-First author)

### [ICLR 2026] 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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### [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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### [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

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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

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**[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

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**[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

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## Projects

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**[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

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**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

<b>SJTU Zhiyuan Honor Bachelor's Degree</b>	2025
<b>SJTU President Award</b>	2023
• Received for serving as a student volunteer during the COVID-19 pandemic.	
<b>SJTU Outstanding Freshman Training Camp Member</b>	2021
<b>SJTU Outstanding Graduate</b>	2025
<b>SJTU Outstanding Bachelor's Thesis of School of Computer Science</b>	2025
<b>SJTU Best Bachelor's Thesis (TOP 1%)</b>	2025

## **Services** ---

### **Academic Reviewer**

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

### **Volunteer**

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