

# Jiazi Bu

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## Education

- PhD Nanyang Technological University**, College of Computing and Data Science Singapore  
Sept 2025 - Now
- **Advisor:** Prof. [Xingang Pan](#).
  - **Programme:** *NTU-SJTU Joint PhD Degree Programme*. Fully funded.
- PhD Shanghai Jiao Tong University**, Computer Science and Technology Shanghai, China  
Sept 2025 - Now
- **Advisor:** Prof. [Dahua Lin](#).
  - **Programme:** *NTU-SJTU Joint PhD Degree Programme*. Fully funded.
- BEng 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.
  - **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

- MMLab @ NTU, S-Lab**, *PhD* Research Candidate Singapore  
Sept 2025 - Now
- Research Fields: Generative AI.
  - Advisor: Prof. [Xingang Pan](#).
- Large Model Center @ Shanghai AI Laboratory**, *Undergraduate & PhD* Research Intern Shanghai, China  
Nov 2023 - Now
- Research Fields: Generative AI and Large Vision-Language Models.
  - Mentors: [Jiaqi Wang](#), [Pan Zhang](#), [Xiaoyi Dong](#), [Yuhang Zang](#) and [Tong Wu](#).
- ReThinkLab @ SJTU**, *Undergraduate* Research Candidate Shanghai, China  
Oct 2022 - May 2024
- Research Fields: Computer Vision and AI4Science.
  - Advisor: Prof. [Junchi Yan](#).
- GuoZhi Class @ SJTU**, *Undergraduate* Candidate (the first session) Shanghai, China  
Dec 2021 - June 2025
- Description: A training programme for top-notch talents in artificial intelligence, jointly established by Shanghai Jiao Tong University and Shanghai AI Laboratory.
  - Mentors: Prof. [Xiaoou Tang](#) and Prof. [Cewu Lu](#).

## Publications (\* for 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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### [arXiv 2026] From Sparse to Dense: Multi-View GRPO for Flow Models via Augmented Condition Space

**Jiazi Bu\***, Pengyang Ling\*, Yujie Zhou\*, Yibin Wang, Yuhang Zang, Tianyi Wei, Xiaohang Zhan, Jiaqi Wang, Tong Wu, Xingang Pan, Dahua Lin

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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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**[CVPR 2026] 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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**[ICME 2026] Uni-Classifier: Leveraging Video Diffusion Priors for Universal Guidance Classifier**

Yujie Zhou\*, Pengyang Ling\*, **Jiazi Bu\***, Bingjie Gao, Li Niu

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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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**[arXiv 2026] Unified Personalized Reward Model for Vision Generation** (a part of *UnifiedReward* series)

Yibin Wang, Yuhang Zang, Feng Han, **Jiazi Bu**, Yujie Zhou, Cheng Jin, Jiaqi Wang

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**[arXiv 2025] 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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**[arXiv 2025] Pref-GRPO: Pairwise Preference Reward-based GRPO for Stable Text-to-Image Reinforcement Learning** (the unified T2I benchmark *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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**[arXiv 2026] EndoCoT: Scaling Endogenous Chain-of-Thought Reasoning in Diffusion Models**

Xuanlang Dai, Yujie Zhou, Long Xing, **Jiazi Bu**, Xilin Wei, Yuhong Liu, Beichen Zhang, Kai Chen, Yuhang Zang

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## Projects

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

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- **Jiazi Bu\***, Qirui Li\*, Kailing Wang\*, Xiangyuan Xue\*, Zhiyuan Zhang\*
- Project of AI3604 Computer Vision, 2023 Fall, SJTU
- Developed a novel Chinese content generation system that can specify styles based on Generative Adversarial Networks (GANs).

## Honors & Awards

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<b>Ye Jun and Shen Nanpeng Outstanding Scholarship</b>	2025
• ¥ 20000, received as <b>one of the TOP 30 graduates</b> of SJTU.	
<b>Zhiyuan Honors Scholarship</b>	2021, 2022, 2023, 2024
• ¥ 5000 per year, received as part of the <i>SJTU Zhiyuan Honors Programme</i> .	
<b>Guozhi Scholarship</b>	2022
• ¥ 8000, received as being in the <b>TOP 15%</b> of SJTU AI students.	
<b>SJTU Postgraduate Scholarship for PhD Student</b>	2026
<b>SJTU Undergraduate Scholarship</b>	2022, 2023, 2024, 2025
<b>CUMCM National First Prize (TOP 0.55%) &amp; First Prize in Shanghai Chapter</b>	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 Award (TOP 1%)</b>	2025

## Services

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### Academic Reviewer

- Conference Reviewer: ECCV (2026), CVPR (2026), ICLR (2026).
- Journal Reviewer: T-PAMI, TMLR.

### Volunteer

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