

# Jiazi Bu

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🔄 Bujiazi

## Education

<b>BS</b>	<b>Shanghai Jiao Tong University</b> , Artificial Intelligence ( <a href="#">Guozhi Class</a> )	Sept 2021 – June 2025
	<ul style="list-style-type: none"> <li>• <b>GPA:</b> 4.04/4.3; <b>Average Score:</b> 92.90/100; <b>Rank:</b> 8/95 (<b>TOP 10%</b>).</li> <li>• <b>Languages:</b> CET4: 636; CET6: 612.</li> <li>• <b>Skills:</b> Python (PyTorch, Diffusers, Transformers), C++, C, Latex.</li> <li>• <b>Research Interests:</b> Generative Models (2D AIGC), Computer Vision.</li> <li>• <b>Related Coursework:</b> Mathematical Analysis, Linear Algebra, Data Structure, Computer Vision, Data Mining, Reinforcement Learning.</li> </ul>	

## Experience

<b>Shanghai Artificial Intelligence Laboratory</b> , Research Intern	Shanghai, China Nov 2023 – Now
<ul style="list-style-type: none"> <li>• Research Fields: Generative Models and Large Vision-Language Models.</li> <li>• Mentor: Jiaqi Wang.</li> <li>• Supervised by Prof. Dahua Lin.</li> </ul>	
<b>SJTU ReThinklab</b> , Research Intern	Shanghai, China Oct 2022 – May 2024
<ul style="list-style-type: none"> <li>• Research Fields: Computer Vision and AI4Sci.</li> <li>• Supervised by Prof. Junchi Yan.</li> </ul>	

## Publications

**[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](#)

**[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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**[Arxiv 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

[Paper](#) / [Code](#)

**[Arxiv 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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**[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] Learning Drug-Drug Interaction from a Hierarchical View**

Huaijin Wu, **Jiazi Bu**, Nianzu Yang, Yao Sun, Haitao Song, Ning Liu, Junchi Yan

## Projects

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### 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.
- Tools Used: Python, Latex.

### DeepMovie

[Poster](#) / [Code](#)

- 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](#)

- Developed a 3D first-person Pac-Man game using the Unity engine.
- Tools Used: C, C++, Unity.

## Honors & Awards

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### 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

### CUMCM National First Prize (TOP 0.55%) / First Prize in Shanghai Chapter

2023

### SJTU President Award

2023

- Received for serving as a student volunteer during the COVID-19 pandemic.

### SJTU Outstanding Freshman Training Camp Member

2021