Jiazi Bu

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Education

BS **Shanghai Jiao Tong University**, Artificial Intelligence (Guozhi Class)   Sept 2021 – June 2025
- **GPA**: 3.99/4.3; **Average Score**: 92.29/100; **Rank**: 8/95 **(TOP 10%)**.
- **Languages**: CET4: 636; CET6: 612.
- **Skills**: Python, C++, C, Latex.
- **Research Interests**: Generative Models (2D AIGC), Computer Vision.
- **Related Coursework:** Mathematical Analysis, Linear Algebra, Data Structure, Computer Vision, Data Mining, Reinforcement Learning.

Experience

Shanghai Artificial Intelligence Laboratory, Research Intern   Shanghai, China
Nov 2023 – Now
- Research Fields: Generative Models and Large Vision-Language Models.
- Mentor: Jiaqi Wang.
- Supervised by Prof. Dahua Lin.

SJTU ReThinklab, Research Intern   Shanghai, China
Oct 2022 – May 2024
- Research Fields: Computer Vision and AI4Sci.
- Supervised by Prof. Junchi Yan.

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

Page ☑ / Paper ☑ / Code ☑

[Under Review] 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 ☑

[Under Review] 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 ☑

[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

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

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