

# JIE AN

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## EDUCATION

**University of Rochester, Rochester, USA**

*Aug 2020 - May 2025*

- *Ph.D.* in Computer Science. Adviser: *Prof. Jiebo Luo*

**Peking University, Beijing, China**

*Sep 2016 - Jun 2019*

- *M.S.* in Applied Mathematics. Adviser: *Prof. Jinwen Ma*

**Peking University, Beijing, China**

*Sep 2012 - Jun 2016*

- *B.S.* in Applied Mathematics

## WORK EXPERIENCE

**Amazon AGI applied scientist**

*Jul 2025 - Present*

- Video generation pre-training.

**Meta AI research scientist**

*May 2025 - Jul 2025*

- Research on 3D/4D generation and world model.

## RESEARCH INTEREST

- Video/Multi-Modal Generation
- Interactive World Generation
- Generative Models

## THESIS

- [Thesis 2025] *Text-to-Video Generation Based on Diffusion Model*  
Jie An, advised by Jiebo Luo

## HIGHLIGHTED RESEARCH

- [NeurIPS 2025] *On Inductive Biases That Enable Generalization of Diffusion Transformers*  
**Jie An**, Andy (De) Wang, Pengsheng Guo, Jiebo Luo and Alexander G. Schwing ([diffusion model](#))
- [ICCV 2025] *Latent-Reframe: Enabling Camera Control for Video Diffusion Model without Training*  
Zhenghong Zhou\*, **Jie An\*** and Jiebo Luo ([text-to-video](#), [3D](#))
- [AAAI 2025] *Ouroboros-Diffusion: Exploring Consistent Content Generation in Tuning-free Long Video Diffusion*  
Jingyuan Chen, Fuchen Long, **Jie An**, Zhaofan Qiu, Ting Yao, Jiebo Luo and Tao Mei ([text-to-video](#))
- [Arxiv 2023] *Latent Diffusion with Temporal Shift for Efficient Text-to-Video Generation*  
**Jie An\***, Songyang Zhang\*, Sonal Gupta, Jia-Bin Huang, Jiebo Luo and Xi Yin ([text-to-video](#))
- [ICLR 2023] *Make-A-Video: Text-to-video Generation Without Text-video Data*  
Uriel Singer\*, Adam Polyak\*, Thomas Hayes\*, Xi Yin\*, **Jie An**, Songyang Zhang, Qiyuan Hu, Harry Yang, Oron Ashual, Oran Gafni, Devi Parikh, Sonal Gupta, Yaniv Taigman ([text-to-video](#))
- [IJCAI 2024] *Bring Metric Functions into Diffusion Models*  
**Jie An**, Zhengyuan Yang, Jianfeng Wang, Linjie Li, Zicheng Liu, Lijuan Wang and Jiebo Luo ([diffusion model](#))
- [MM (BNI) 2024] *OpenLEAF: A Novel Benchmark for Open-Domain Interleaved Image-Text Generation*  
**Jie An**, Zhengyuan Yang, Linjie Li, Jianfeng Wang, Kevin Lin, Zicheng Liu, Lijuan Wang, Jiebo Luo ([multi-modal generation/evaluation](#))

## OTHER PAPERS

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- [TCSVT 2025] *Video Understanding with Large Language Models: A Survey*  
Tang *et al.*
- [TMM 2024] *Learning to Evaluate the Artness of AI-generated Images*  
Junyu Chen, **Jie An**, Hanjia Lyu, Jiebo Luo
- [MIPR 2024] *Improving Visual-textual Sentiment Analysis by Fusing Expert Features*  
Junyu Chen\*, **Jie An\***, Hanjia Lyu\* and Jiebo Luo
- [TPAMI 2023] *Domain-Scalable Unpaired Image Translation via Latent Space Anchoring*  
Siyu Huang\*, **Jie An\***, Donglai Wei, Zudi Lin, Jiebo Luo and Hanspeter Pfister
- [CVPR 2023] *QuantArt: Quantizing Image Style Transfer Towards High Visual Fidelity*  
Siyu Huang\*, **Jie An\***, Donglai Wei, Jiebo Luo and Hanspeter Pfister
- [WACV 2023] *Is Bigger Always Better? An Empirical Study on Efficient Architectures for Style Transfer and Beyond*  
**Jie An**, Tao Li, Haozhi Huang, Jinwen Ma and Jiebo Luo
- [MM (BNI) 2023] *Jurassic World Remake: Bringing Ancient Fossils Back to Life via Zero-Shot Long Image-to-Image Translation*  
Alexander Martin, Haitian Zheng, **Jie An** and Jiebo Luo
- [WACV 2022] *Facial Attribute Transformers for Precise and Robust Makeup Transfer*  
Zhaoyi Wan, Haoran Chen, **Jie An**, Wentao Jiang, Cong Yao, and Jiebo Luo
- [CVPR 2021] *ArtFlow: Unbiased Style Transfer with Reversible Neural Flows*  
**Jie An\***, Siyu Huang\*, Yibing Song, Dejing Dou, Wei Liu and Jiebo Luo
- [ICPR 2020] *Global Image Sentiment Transfer*  
**Jie An**, Tianlang Chen, Songyang Zhang and Jiebo Luo
- [AAAI 2020 Oral] *Ultrafast photorealistic style transfer via neural architecture search*  
**Jie An\***, Haoyi Xiong\*, Jun Huan and Jiebo Luo
- [BMVC 2018] *Pyramid attention network for semantic segmentation*  
Hanchao Li, Pengfei Xiong, **Jie An**, and Lingxue Wang

## INTERNSHIP

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<b>Apple</b> <i>research intern</i>	<i>May 2024 - Apr 2025</i>
• Research on generalization of diffusion transformer (DiT).	
<b>Microsoft Cloud &amp; AI</b> <i>research intern</i>	<i>Feb 2023 - May 2024</i>
• Research on diffusion model and visual-language generation.	
<b>Meta FAIR</b> <i>research intern</i>	<i>May 2022 - Dec 2022</i>
• Research on text-to-video generation.	
<b>Tencent AI Lab</b> <i>research intern</i>	<i>Sep 2020 - Jul 2021</i>
• Research on image style transfer based on Flow models.	
<b>StylingAI Inc.</b> <i>research engineer</i>	<i>Apr 2020 - Sep 2020</i>
• Work on deep fake generation for images, videos, and live streams.	
<b>Tencent AI Lab</b> <i>research intern</i>	<i>Jul 2019 - Mar 2020</i>
• Work on Chinese calligraphy generation/translation.	
• Research on real-time neural style transfer.	
<b>Baidu Big Data Lab</b> <i>research intern</i>	<i>Jan 2019 - Jul 2019</i>
• Research on style transfer and neural architecture search.	
<b>Megvii Inc. (Face++)</b> <i>research intern</i>	<i>Oct 2017 - Jun 2018</i>
• Research on portrait segmentation, portrait matting and semantic segmentation.	

## HONORS & AWARDS

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- SIGMM Award for Outstanding PhD Thesis Oct 2025
- Selection for Doctoral Consortium, *CVPR 2025* Jun 2025
- Outstanding Graduate of Beijing Jun 2019
- Graduate student scholarship, *Peking University* Oct 2018
- Graduate student scholarship, *Peking University* Oct 2016
- “Guang Hua” scholarship, *Peking University* Jun 2015