JIE AN

⚲ https://pkuanjie.com · ✉ jan6@cs.rochester.edu · ☎ +1 585-285-2273 · in LinkedIn · ○ GitHub

EDUCATION

University of Rochester, *Rochester, USA* — *Aug 2020 - Present*
- *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

PUBLISHED PAPERS

- [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

- [Arxiv 2023] *Learning to Evaluate the Artness of AI-generated Images*
  Junyu Chen, **Jie An**, Hanjia Lyu, Jiebo Luo

- [Arxiv 2023] *Improving Visual-textual Sentiment Analysis by Fusing Expert Features*
  Junyu Chen⋆, **Jie An**⋆, Hanjia Lyu⋆ and Jiebo Luo

- [TPAMI] *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

- [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

- [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

- [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

WORK & INTERNSHIP

Microsoft Cloud & AI *research intern* — *Feb 2023 - Aug 2023*
- Research on diffusion model and visual-language generation.

Meta FAIR *research intern* — *May 2022 - Dec 2022*
- Research on text-to-video generation.

Tencent AI Lab *research intern* — *Sep 2020 - Jul 2021*
- Research on image style transfer based on Flow models.

StylingAI Inc. *research engineer* *Apr 2020 - Sep 2020*
- Work on deep fake generation for images, videos, and live streams.

Tencent AI Lab *research intern* *Jul 2019 - Mar 2020*
- Work on Chinese calligraphy generation/translation.
- Research on real-time neural style transfer.

Baidu Big Data Lab *research intern* *Jan 2019 - Jul 2019*
- Research on style transfer and neural architecture search.

Megvii Inc. (Face++) *research intern* *Oct 2017 - Jun 2018*
- Research on portrait segmentation, portrait matting and semantic segmentation.

PROJECTS & EXPERIENCES

Deep fakes generation on images and videos. *Apr 2020 - Sep 2020*
- We develop a deep fakes generation system for portrait images, videos, and live streams, where I am in charge of face blending, harmonization, and post-processing.

AI spring festival couplets. *Jul 2019 - Feb 2020*
- We develop an AI system to automatically generate spring festival couplets and write them by imitating the writing style of famous Chinese calligraphers.
- I am in charge of developing a Chinese calligraphy generation algorithm.
- The project has been made online in the spring festival of 2021. Please search "用 AI 写春联小程序" on WeChat.

Optical diffraction tomography holographic image reconstruction. *Jun 2015 - Oct 2016*
- We propose a 3D image reconstruction algorithm for holographic imaging based on the electromagnetic wave propagation theory and Fourier spectrum analysis method.
- We develop a fast 3D image reconstruction algorithm for microscopic imaging systems based on CUDA C.
- The proposed algorithm and the optical hardware are used by many biomedical labs.

SKILLS

- Programming Languages: Python > C++/C/Matlab > Web > CUDA C.
- Deep Learning: PyTorch > TensorFlow.

HONORS & AWARDS

- Outstanding Graduate, *Beijing* *Jun 2019*
- Second Prize, *Challenge cup academic competition, Peking University* *Sep 2018*
- Third Prize, *IBM PowerAI programming marathon competition* *Dec 2017*
- Second Prize, *"Jiang Ze Han" cup mathematical modeling competition, Peking University* *Jun 2015*
- Graduate student scholarship, *Peking University* *Oct 2018*
- Graduate student scholarship, *Peking University* *Oct 2016*
- "Guang Hua" scholarship, *Peking University* *Jun 2015*