

JIE AN · 安捷

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🎓 EDUCATION

- University of Rochester, NY, US** Aug. 2019 - Present
Ph.D. in Computer Science. Advised by Prof. Jiebo Luo.
- Peking University, Beijing, China** Sep. 2016 - Jun. 2019
M.S. in Applied Mathematics. Advised by Prof. Jinwen Ma.
- Peking University, Beijing, China** Sep. 2012 - Jun. 2016
B.S. in Applied Mathematics.

📄 PUBLISHED PAPERS

- **Jie An**, Siyu Huang, Yibing Song, Dejing Dou, Wei Liu, and Jiebo Luo. “ArtFlow: Unbiased Style Transfer with Reversible Neural Flows”. CVPR-2021 (Under review).
- **Jie An**, Tianlang Chen, Songyang Zhang and Jiebo Luo. “Global Image Sentiment Transfer”. ICPR-2020.
- **Jie An**, Haoyi Xiong, Jun Huan and Jiebo Luo. “Ultrafast photorealistic style transfer via neural architecture search”. AAAI-2020 (Oral Presentation).
- Hanchao Li, Pengfei Xiong, **Jie An**, and Lingxue Wang. “Pyramid attention network for semantic segmentation”. BMVC-2018.
- Mengdi Zhao, **Jie An**, Haiwen Li, Jiazhi Zhang, Shang-Tong Li, Xue-Mei Li, Meng-Qiu Dong, Heng Mao, and Louis Tao. “Segmentation and classification of two-channel C. elegans nucleus-labeled fluorescence images”. BMC bioinformatics 18, no. 1 (2017): 412.

🏢 WORK & INTERNSHIP

- Research intern in Megvii Inc. (Face++).** Oct. 2017 - Jun. 2018
- Research on portrait segmentation, portrait matting and semantic segmentation.
 - One paper is accepted by BMVC-2018.
- Research intern in Big Data Lab of Baidu Research.** Jan. 2019 - Jul. 2019
- Research on style transfer and neural architecture search.
 - One paper is accepted by AAAI-2020 for oral presentation.
- Research intern in Tencent AI Lab.** Jul. 2019 - Mar. 2020
- Work on Chinese calligraphy generation/translation.
 - Research on real-time neural style transfer.
- Senior Research Engineer in StylingAI Inc.** Apr. 2020 - Sep. 2020
- Work on deep fakes creation for images, videos, and live streams.
- Intern in Tencent AI Lab.** Sep. 2020 - Present
- Research on reversible image style transfer based on neural flows.
 - Research on conditional image generation based on transformer models.

📋 PROJECTS & EXPERIENCES

- 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 the vision part and develop a Chinese calligraphy generation algorithm.

- The project will be made online in the spring festival of 2021. Please search “用 AI 写春联小程序” on WeChat.

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 the face blending, harmonization, and post-processing.

Cloud segmentation based on semantic segmentation algorithms.

Mar. 2017 - Nov. 2018

- We construct a new network to make cloud segmentation on very large remote-sensing images.
- We develop a web application to control and visualize the cloud segmentation on remote-sensing images.

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 in together with the optical hardware are used by many biomedical labs.

SKILLS

- Programming Languages: Python > C++/C/Matlab > Web > CUDA C.
- English Proficiency: TOEFL 101, GRE 321.

HONORS & AWARDS

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| ○ Outstanding Graduate, Beijing. | Jun. 2019 |
| ○ <i>Second Prize</i> , Challenge cup academic competition, Peking University. | Sep. 2018 |
| ○ <i>Third Prize</i> , IBM PowerAI programming marathon competition. | Dec. 2017 |
| ○ <i>Second Prize</i> , "Jiang Ze Han" cup mathematical modeling competition, Peking University. | Jun. 2015 |
| ○ Graduate student scholarship, Peking University. | Oct. 2018 |
| ○ "Hua Wei" scholarship, Peking University. | Sep. 2017 |
| ○ Graduate student scholarship, Peking University. | Oct. 2016 |
| ○ "Guang Hua" scholarship, Peking University. | Jun. 2015 |