

Wentao Jiang

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EDUCATION

- Beihang University** Beijing, China
Ph.D. in Artificial Intelligence, supervised by Prof. Si Liu Sep. 2020 - June 2024 (Expected)
- Beihang University** Beijing, China
M.Phil. in Computer Science, supervised by Prof. Prof. Si Liu Sep. 2019 - June 2020
- Harbin Engineering University** Harbin, China
B.Eng. in Software Engineering; GPA: 91/100 (Top 2%) Sep. 2015 - June 2019

RESEARCH INTERESTS

- Conditional Image Synthesis (e.g., image-to-image translation, makeup transfer)
- Vision and Language (e.g., language-driven image editing)
- Low-Level Vision (e.g., dehazing, low-light image enhancement, image retouching)

EXPERIENCE AND PROJECTS

- Adobe Research** Beijing, China (Remote)
Collaborative Researcher, supervised by Dr. Ning Xu and Dr. Zhe Lin Sep. 2020 - Nov. 2020
 - Explored a new task: automatically edit photos via linguistic requests (e.g., "Increase the brightness a lot")
 - Proposed the PhotoshopGAN (submit to CVPR 2021) to directly embed language embeddings as modulation parameters that can spatial-adaptively edit the photo. Proposed a new evaluation metric called Redescription Similarity Score to evaluate whether the edited results match the requests or not
- SenseTime Research** Beijing, China
Research Intern, supervised by Dr. Wayne Wu June 2020 - Sep. 2020
 - Worked on fast and robust makeup transfer algorithm for high-resolution images, aiming at bringing makeup transfer method to mobile apps
 - Combined the traditional method (image warping) and the deep learning method for makeup transfer. Collected a high-resolution makeup transfer dataset
- Beihang University** Beijing, China
Research Assistant, supervised by Prof. Si Liu Aug. 2018 - present
 - Worked on conditional image synthesis tasks, including makeup transfer and image-to-image translation
 - Proposed the PSGAN (accepted by CVPR 2020 as oral presentation) which first achieve shade-controllable, partial, and robust makeup transfer. Our [Github Repo](#) receive over **270** stars in half a year. The extended version PSGAN++ which can transfer and remove detailed makeup is submit to TPAMI

PUBLICATIONS

- Wentao Jiang, Ning Xu, Jiayun Wang, Chen Gao, Jing Shi, Zhe Lin, Si Liu, "PhotoshopGAN: Automatic Photo Editing via Unconstrained Linguistic Request", submit to CVPR 2021
- Si Liu, Wentao Jiang, Chen Gao, Ran He, Jiashi Feng, Bo Li, Shuicheng Yan, "PSGAN++: Detailed Makeup Transfer and Removal with Pose and Expression Robust Spatial-Aware GAN", submit to TPAMI
- Wentao Jiang, Si Liu, Chen Gao, Jie Cao, Ran He, Jiashi Feng, Shuicheng Yan, "PSGAN: Pose and Expression Robust Spatial-Aware GAN for Customizable Makeup Transfer", IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020, **Oral Presentation**
- Wentao Jiang, Si Liu, Chen Gao, Ran He, Bo Li, and Shuicheng Yan, "Beautify As You Like", ACM International Conference on Multimedia (ACM MM) 2020, Demo Paper
- Defa Zhu, Si Liu, Wentao Jiang, Chen Gao, Tianyi Wu, Qiangchang Wang, Guodong Guo, "UGAN: Untraceable GAN for Multi-Domain Face Translation", arXiv preprint arXiv:1907.11418, 2019

HONORS AND AWARDS

- Outstanding Freshman Scholarship for PhD Student (Top 5%)**, Beihang University, 2020
- First Class Scholarship (Top 10%)**, Beihang University, 2019
- Outstanding Freshman Scholarship for Master Student (Top 5%)**, Beihang University, 2019
- Outstanding Graduates (Top 2%)**, Harbin Engineering University, 2019
- Merit Student (Top 1%)**, Heilongjiang Province, 2019
- National Scholarship (Top 1%)**, 2017
- Silver Medal**, ACM-International Collegiate Programming Contest (ICPC) Asia Regional Contest, 2017
- Silver Medal × 3**, China Collegiate Programming Contest (CCPC) Regional Contest, 2016 - 2017