

# Weihaohao Xia

3D Vision Engineer  
Huawei Technologies Co., Ltd.

Email: [xiawh3@outlook.com](mailto:xiawh3@outlook.com)  
Homepage: [xiaweihaohao.com](http://xiaweihaohao.com)

## Education

**Tsinghua University (THU)** Sept., 2016 - Jul., 2019  
**M. Sc.** in Control Engineering, School of Information Science and Technology.

**Sun Yat-Sen University (SYSU)** Sept., 2012 - Jul., 2016  
**B. Sc.** in Automation, School of Information Science and Technology.

## Experience

**3D Vision / Computer Vision Algorithm Engineer, HUAWEI** Oct., 2019 - Now  
Project: **Clothed People Digitalization**

**Research Assistant, Tsinghua University** Jun., 2019 - Oct., 2019  
Advisor: *Prof. Dr. Yujiu Yang*  
Project: **Research on Image Translation, Restoration and Enhancement**

**Engineer Intern, 2012 Labs, HUAWEI** Jun., 2018 - Sep., 2018  
Advisor: *Dr. Wensen Feng*

**R&D Intern, SenseTime Group Limited** Oct. 2017 - Mar., 2018  
Advisor: *Dr. Wenxiu Sun*  
Project: **Image Enhancement using Misaligned Training Data**

**Teaching Assistant, Tsinghua University** Oct. 2017 - Feb., 2018  
Course: **Selected Topics on Intelligent Information Processing**, Fall 2017

## Preprints

Weihaohao Xia, Zhanglin Cheng, Yujiu Yang. **SR-Net: Cooperative Image Segmentation and Restoration in Adverse Environmental Conditions**. [\[PDF\]](#) [\[Project\]](#) Aug. 2019.

Weihaohao Xia, Yujiu Yang, Jing-Hao Xue, Jing Xiao. **Domain-Aware No-Reference Image Quality Assessment**. [\[PDF\]](#) [\[Project\]](#) Jun. 2019.

Weihaohao Xia, Yujiu Yang, Jing-Hao Xue. **Unsupervised Multi-Domain Multimodal Image-to-Image Translation with Explicit Domain-Constrained Disentanglement**. [\[PDF\]](#) [\[Project\]](#) Apr. 2019.

Weihaohao Xia, Yujiu Yang, Jing-Hao Xue. **Cali-Sketch: Stroke Calibration and Completion for High-Quality Face Image Generation from Poorly-Drawn Sketches**. [\[PDF\]](#) [\[Project\]](#) Mar. 2019.

## Publications

Weihao Xia. **Image Restoration and Image Quality Assessment via Deep Learning**. Thesis Submitted to Tsinghua University in partial fulfillment of the requirement for the professional degree of Master of Engineering. May 2019

Weihao Xia, Yujiu Yang, Xianyu Bao. **ECGAN: Image Translation with Multi-scale Relativistic Average Discriminator[C]**. 8th International Conference on Artificial Intelligence and Mobile Services (**Best Student Paper Awards**), 2019, pp. 28–38.

Weihao Xia, Chengxi Yang, Yujiu Yang, Wenxiu Sun. **Matching Low-Quality Photo to DSLR-Quality with Deep Convolutional Networks[C]**. 7th International Conference on Artificial Intelligence and Mobile Services, 2018, pp. 43–54.

## Skills

**Language:** English (fluent), Chinese (native)

**Toolboxes:** PyTorch, TensorFlow, Chainer, OpenCV, OpenMesh

**Programming:** Python, C/C++, Matlab

Last updated: December 24, 2019