Chen Chaofeng

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RESEARCH INTERESTS	**Computer Vision**: Real world image restoration and enhancement; Image-to-image translation; 3D-aware image synthesis/rendering/editing ; Face related tasks

EDUCATION

The University of Hong Kong (HKU)　　　　　　　　Hong Kong SAR, China

Ph.D. Computer Science　　　　　　　　　　　**Sep, 2015 - Jan, 2021**
- Supervisor: Dr. Kenneth K.Y. Wong
- Thesis: Face Sketch Synthesis and Face Super Resolution in the Wild with Deep Learning

Huazhong University of Science and Technology (HUST)　　　WuHan,China

B.Eng., Computer Science　　　　　　　　　　　**Sep, 2011 - June, 2015**
- Thesis: Salient Region Detection and Scene Classification.
- GPA 4.0/4.0 (92.3/100), top 1% of 300

RESEARCH EXPERIENCE

Nanyang Technological University　　　　　　　　**Sep, 2021 - Present**
Research Fellow, S-Lab for Advanced Intelligence
Supervisor: Prof. Weisi Lin
- Project: Video quality assessment.

The Chinese University of Hong Kong (Shenzhen)　**Sep, March, 2021 - Sep, 2021**
Research Assistant, GAP-Lab
Worked with Dr. Xiaoguang Han
- Project: Natural image super resolution.

DAMO Academy, Alibaba　　　　　　　　　**Nov, 2019 - March, 2021**
Research Internship, Artificial and Intelligence Center
Mentor: Prof. Lei Zhang
- Project: Face restoration and video enhancement.

University of California, Merced　　　　　　　**May, 2019 - Sep, 2019**
Research Student Visitor, Vision and Learning Lab
Mentor: Prof. Ming-Hsuan Yang
- Project: Photo-realistic face generation with GAN.

Tencent AI Lab　　　　　　　　　　　　　**June, 2018 - Apr, 2019**
Research Internship
Mentor: Prof. Zhifeng Li
- Project 1: Face super resolution based on spatial attention.
- Project 2: Occluded face recognition through occlusion removal.

PUBLICATIONS

1. Guanying Chen, **Chaofeng Chen**, Shi Guo, Zhetong Liang, K.-Y. K. Wong, Lei Zhang. HDR Video Reconstruction: A Coarse-to-fine Network and A Real-world Benchmark Dataset. *International Conference on Computer Vision (ICCV)*, 2021.

2. **Chaofeng Chen**, Xiaoming Li, Lingbo Yang, Xianhui Lin, Lei Zhang, Kwan-Yee K. Wong. Progressive Semantic-Aware Style Transformation for Blind Face Restoration. *Computer Vision and Pattern Recognition (CVPR)*, 2021.

3. **Chaofeng Chen**, Dihong Gong, Hao Wang, Zhifeng Li, Kwan-Yee K. Wong. Learning Spatial Attention for Face Super-Resolution. *IEEE Transactions on Image Processing (TIP)*, 2020.

4. Xiaoming Li, **Chaofeng Chen**, Shangchen Zhou, Xianhui Lin, Wangmeng Zuo, Lei Zhang. Blind Face Restoration via Deep Multi-scale Component Dictionaries. *European Conference on Computer Vision (ECCV)*, 2020.

5. **Chaofeng Chen**, Liu Wei, Xiao Tan, K.-Y. K. Wong. Semi-Supervised Learning for Face Sketch Synthesis in the Wild. Asia Conference on Computer Vision (ACCV), 2018.

6. Wei Liu, **Chaofeng Chen**, K.-Y. K. Wong. SAFE: Scale Aware Feature Encoder for Scene Text Recognition. Asia Conference on Computer Vision (ACCV), 2018.

7. **Chaofeng Chen***, Xiao Tan*, K.-Y. K. Wong. Face Sketch Synthesis with Style Transfer using Pyramid Column Feature. *Winter Conference on Applications of Computer Vision(WACV)*, 2018. (* equal contribution)

8. Wei Liu, **Chaofeng Chen**, K.-Y. K. Wong. Char-Net: A Character-Aware Neural Network for Distorted Scene Text Recognition. *AAAI Conference on Artificial Intelligence (AAAI)*, 2018. **Oral Presentation**

9. Wei Liu, **Chaofeng Chen**, K.-Y. K. Wong, Z. Su and J. Han. STAR-Net: A SpaTial Attention Residue Network for Scene Text Recognition. *British Machine Vision Conference (BMVC)*, 2016.

PROFESSIONAL ACTIVITIES	• Conference Reviewer: AAAI, CVPR, ICCV • Journal Reviewer: TIP, Neurocomputing

TEACHING EXPERIENCE

The University of Hong Kong

Department of Computer Science, Teaching Assistant

- COMP3317 Computer Vision   Spring, 2017 − 18
- COMP2396 Object-Oriented Programming and Java   Spring, 2015 − 16
- COMP2396 Object-Oriented Programming and Java   Fall, 2016 − 17

AWARDS

Student Awards — The University of Hong Kong
- Hong Kong PhD Fellowship (HKPF, Highest Distinction in Hong Kong)   **2015 − 2018**

Student Awards — Huazhong University of Science and Technology
    2013 − 2014
- National Encouragement Scholarship (Top Distinction in China)

    2012 − 2013
- Excellent Student for Academic Performance of Qiming College (Top Distinction in HUST)
- Merit Student Title of Huazhong University of Science and Technology (Top Distinction in HUST)
- National Encouragement Scholarship (Top Distinction in China)

    2011 − 2012
- National Scholarship (Top Distinction in China)
- Merit Student Title of Huazhong University of Science and Technology (Top Distinction in HUST)

TECHNICAL SKILLS
- Programming in: `Python, C/C++, Java, Matlab`
- Language: Mandarin (native speaker), English (working proficiency)
- Others: PyTorch, Keras, Theano, LaTeX, OpenCV, etc