Chen Chaofeng
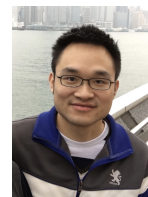
CB411, Chow Yei Ching Building,
The University of Hong Kong,
Pokfulam Road, Hong Kong

Homepage: chaofengc.github.io
E-mail: chaofenghust@gmail.com
Phone(HK): **+852 92077137**
Phone(CN): **+86 13244706899**

RESEARCH INTERESTS	**Computer Vision**: Low-level and physics-based vision, including super resolution, style transfer and GAN based image synthesis; Face Analysis, including face sketch synthesis and face recognition; 3D Vision, such as Neural Radiance Field (NeRF). **Deep Learning**, including CNN, GAN, Transformer, Implicit field

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

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

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

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

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

The University of Hong Kong — **Jul, 2014 - Aug, 2014**
Research Internship, Dept. of Computer Science
Supervisor: Dr. Kenneth K.Y. Wong
- Project: Object detection and 2D-3D alignment by silhouette matching.

Huazhong University of Science and Technology — **Mar, 2013 - Nov, 2014**
Student Innovation Project
Supervisor: Professor Enming Song
- Project: Stereo Matching with Adaptive Windows.

PUBLICATIONS

1. **Chaofeng Chen**, Xiaoming Li, Lingbo Yang, Xianhui Lin, Lei Zhang, Kwan-Yee K. Wong. Progressive Semantic-Aware Style Transformation for Blind Face Restoration. *ArXiv preprint arXiv:2009.08709*, 2020. (Under review of CVPR2021)

2. **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.

3. 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.

4. **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.

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

6. **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)

7. 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**

8. 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.

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)

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

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