

# HUANRONG ZHANG

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## EDUCATIONS

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### Sun Yat-sen University (SYSU)

*M.S. Degree Received, School of Intelligent Systems Engineering*

Guangzhou, China

*Sept. 2019 ~ June 2021*

### Jinan University (JNU)

*B.S. Degree Received, School of Intelligent Systems Science and Engineering*

Guangzhou, China

*Sept. 2015 ~ June 2019*

## WORKS

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### Tencent

*Computer Vision Researcher*

Shenzhen, China

*July 2021 ~ Present*

## INTERNSHIPS

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### Huawei

*Software Development Engineer*

Shenzhen, China

*July 2018 ~ Oct. 2018*

## PUBLICATIONS

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- **Huanrong Zhang**, Jie Xiao et al. Multi-scale Image Super-Resolution via A Single Extendable Deep Network. IEEE Journal of Selected Topics in Signal Processing (JSTSP). 2021.  
[Paper][Code]
- **Huanrong Zhang** et al. Towards Lighter and Faster: Learning Wavelets Progressively for Image Super-Resolution. Proceedings of the 28th ACM International Conference on Multimedia (ACM MM). 2020.  
[Paper][Code]
- Haoran Qi, **Huanrong Zhang** et al. SemFSR: An Unsupervised Face SR with Semantic Features for Multiple Degradations. IEEE International Conference on Tools with Artificial Intelligence (ICTAI). 2021.  
[Paper]
- Jie Xiao, **Huanrong Zhang** et al. A General Model Compression Method for Image Restoration Network. Signal Processing: Image Communication. 2021.  
[Paper][Code][Supp]
- Meng Pan, **Huanrong Zhang** et al. Self-Distillation Network for Indoor and Outdoor Monocular Depth Estimation. Multimedia Tools and Applications. 2021.
- Yinhe Qi, **Huanrong Zhang** et al. Depth-guided Asymmetric CycleGAN for Rain Synthesis and Image Deraining. Multimedia Tools and Applications. 2021.
- Meng Pan, **Huanrong Zhang** et al. Pixel Classification-based Monocular Depth Estimation. China Automation Congress (CAC). 2020.

## WORKSHOPS

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- Lugmayr et al. NTIRE 2021 Learning the Super-Resolution Space Challenge. Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW). 2021.  
[Paper]
- Zhang et al. NTIRE 2020 Challenge on Perceptual Extreme Super-Resolution: Methods and Results. Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW). 2020.  
[Paper]

## AWARDS

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- Asia Supercomputer Community (ASC) Student Supercomputer Challenge 2019: First Prize and Application Innovation Award (FaceSR).
- CVPR Workshop NTIRE 2021 Learning the Super-Resolution Space Challenge: Finals Award.
- CVPR Workshop NTIRE 2020 Challenge on Perceptual Extreme Super-Resolution: Finals Award.
- Jinan University: 1st Prize Scholarship (2016 ~ 2017, 2018 ~ 2019) and 3rd Prize Scholarship (2017 ~ 2018).
- Sun Yat-sen University: 3rd Prize Scholarship (2019 ~ 2020, 2020 ~ 2021).

## PATENTS

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- 基于增强图像的图像处理方法、装置和计算机设备, 2022, 202211049178.6.
- 一种基于语义特征的人脸超分辨率重建方法及系统, 2022, 202210426417.9.
- 一种合成高仿真图像的方法, 2021, 202110401470.9.
- 基于图像的消防门及其开关状态的检测方法, 2018, ZL201810823826.6 (已授权) .

## FOUNDATIONS

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- 国家自然科学基金委员会面上项目, 6207010648, 复杂天气及光照下的移动视觉感知增强理论与方法, 2020, 参与.

## PRODUCTS

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- 臻彩视听. In Tencent Video.
- Face and Gaze-based Intelligence Interactivity on Huawei HI3519A Chip. In Sun Yat-sen University.
- State Detection of Fire Door based on Video Frames. In Jinan University.
- Megapixel Image Viewer APP. In Jinan University.