



## Ke-Chi (Arc) CHANG

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🏠 <https://arcchang1236.github.io/>

## EDUCATION & WORK EXPERIENCE

### MEDIATEK INC.

2020 - Now

Software & Computer Vision Engineer

- Mobile Camera and Surveillance Algorithm Development.  
(includes denoising, HDR, detection, segmentation, and other camera related tasks.)
- Integrating software C-Model between mobile chip modules and algorithms.

### NATIONAL TSING-HUA UNIVERSITY (NTHU)

2018 - 2020

M.S. - Computer Science

- Participate in "Vision and Learning Lab" with my advisor Hwann-Tzong Chen.

### NATIONAL TSING-HUA UNIVERSITY (NTHU)

2014 - 2018

B.S. - Computer Science

- Independent study: "360° Videos Object Detection". (3<sup>rd</sup> place in the competition)

## PUBLICATIONS

### LEARNING CAMERA-AWARE NOISE MODELS

*European Conference on Computer Vision (ECCV) 2020*

- Propose a GAN-based noise model learned from real-world noise and outperform other statistical noise models.
- Can generate unlimited synthetic noisy images from clean images with different cameras by our noise model.
- Improve the denoising performance by the combination of real and synthetic pairs.

## OTHER EXPERIENCES

### MEDIATEK INC.

2019.07 - 2020.06

[Internship] Study and develop learning-based methods of RAW denoising tasks.

### UMBO COMPUTER VISION

2018.11 - 2019.08

[Industry-Academy Cooperation] Multi-person 3D pose estimation by learning-based methods.

### CONFERENCE ON COMPUTER VISION, GRAPHICS, AND IMAGE PROCESSING (CVGIP 2018)

2018.08

2<sup>nd</sup> place in "Indoor 3D deep space construction competition based on deep learning and 2D images".

### AUTOMOTIVE RESEARCH TESTING CENTER (ARTC)

2018.03 - 2018.11

[Industry-Academy Cooperation] Self-driving location technology by SLAM (error in 1m).

### INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (ITRI)

2017.09 - 2018.08

[Industry-Academy Cooperation] Use learning-based method to improve the sky noise of SLAM.

### PEGATRON CORPORATION

2015.07 - 2015.09

[Internship] Develop Android APP of access control system with face recognition.

## SKILLS

**PROGRAMMING LANGUAGES** *Experienced:* Python *Familiar:* C | C++

**PACKAGES** PyTorch | Tensorflow | Numpy | Matplotlib | Pandas

**LANGUAGES** *Native:* Chinese *Familiar:* English