

Chih-Chieh Yang

🎓 M.S., Dept. of Photonics, [Yang Ming Chiao Tung University](#) 2021 - Present

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EDUCATION

M.S., Department of Photonics, Yang Ming Chiao Tung University Sep 2021 - Present

B.S., Department of Photonics, Yang Ming Chiao Tung University Sep 2017 - Jul 2021 (GPA 3.97 / 4.0)

PROFESSIONAL SKILLS

Python



C



C++



Field

Description

Optics

Geometric optics, Fourier optics

Computer vision

Object detection, Segmentation

Image processing

Feature engineering, Color engineering

INTERSHIP AND EXPERIENCES

Research assistant, [Chung-Hua Institution for Economic Research](#), Hsinchu Remote Jul 2021 - Present

- Help discover useful information in the database of the waste management system
- Design a model to predict recycled raw materials from target wastes

TA, [The Language of Technical Computing](#) (DEO1611), NYCU 2021 spring, 2022 spring

- Python tutorial for basic syntax, Numpy, Scipy, Matplotlib and image transformation

TA, [Linear Algebra](#) (DEO1203), NYCU 2021 spring

SIDE PROJECTS AND HOBBIES

Migraine Prediction Based on Iris Feature Analysis Using Deep Learning

- Developed a non-invasive migraine prediction approach by analyzing visual attributes
- Extracted iris images at both eyes to color features in multiple color spaces

Image Colorization with Convolutional Neural Networks: Attention U-Net

- Developed an image colorization model based on Attention U-Net
- Predicts the channels of a grayscale image in CIE *Lab* color space to a colorized image

Real-Time Fall Detection for Embedded System Using Deep Learning

- Developed an embedded visual system detecting the falls by depth video in multiple views
- Based on MoViNets, successfully achieved 99.21% accuracy

Club activity - [Y.S choir](#), NYCU Sep 2017 - Present

Awards

Academic Excellence Award (2020 Fall / 2019 Fall / 2018 Spring / 2018 Fall / 2017 Spring)

- The student whose semester grade is ranked the top 5% of the class