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