



Ming-Hsuan Wu 吳銘軒

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Education

National Ying Ming Chiao Tung University (NYCU), Hsinchu, Taiwan

Sep. 2020 – Sep. 2022

Master in Department of Photonics

- Thesis: Lensless Optical Encryption Recognition System based on Deep Learning
- Cumulative GPA: 4.02/4.30

Feng Chia University (FCU), Taichung, Taiwan

Sep. 2016 – Jun. 2020

Bachelor in Department of Photonics

Specializations

- **Programming & Tools:** Python, MATLAB, Git, Pytorch, OpenCV, LightTools
- **Deep learning:** Proficient in Python and Familiar with residual neural network
- **Relevant courses:** Digital Image Processing, Optical Design and Aberration Theory, Diffraction Optics, Digital Holography

Academic Projects

Graduate Student Researcher, Optical Information System Lab, NYCU

Sep. 2020 – Sep. 2022

- Lensless Optical Encryption Recognition System based on Deep Learning
- Automatic Optical Calibration by Deep Learning
- Fast Image Style Transfer via Convolution Neural Network (Final project of the Intelligent Computational Algorithms course)

Undergraduate Research Assistant, Optical Information Process Lab, FCU

July. 2019 – Jun. 2020

Binary Computer-Generated Holograms with Localized Random Down-Sampling and Adaptive Intensity Accumulation

Publications and Honors

- **Ming-Hsuan Wu**, Ya-Ti Chang Lee, and Chung-Hao Tien, "[Lensless facial recognition with encrypted optics and a neural network computation](#)," **Appl. Opt.** 61, 7595-7601 (2022)
- **Ming-Hsuan Wu**, Ya-Ti Chang Lee, and Chung-Hao Tien, "Scattering-type lensfree encryption system for face recognition," Optics & Photonics Taiwan International Conference, Kaohsiung, Taiwan, 2021 (Student paper award)
- Jung-Ping Liu, **Ming-Hsuan Wu**, and Peter W. M. Tsang, "[3D display by binary computer-generated holograms with localized random down-sampling and adaptive intensity accumulation](#)," **Opt. Express** 28, 24526-24537 (2020)
- **Ming-Hsuan Wu**, Jung-Ping Liu, "Binary Holograms Generated by Localized Random Down-Sampling and Intensity Accumulation," Information Photonics, Taipei, Taiwan, 2020 (Student paper award)
- Ministry of Science and Technology College Students Research fellowship, 2019