# Ming-Yang Ho


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## Summary


A data scientist at aetherAI with 4+ years of experience in 2D/3D computer vision, natural language processing, machine learning, and deep learning algorithms development. Besides, I am also adept at web programming, cryptography, and clinical pharmacy.


## Skills

- **Programming related**
  - Python
  - PyTorch
  - C/C++
  - ReactJS
  - MySQL
  - Docker
  - Linux
  - Git
- **Domain**
  - Machine learning
  - Deep learning
  - 2D/3D computer vision
  - Natural language processing
  - Cyber security
  - Computer security

## Language

- Mandarin (native)
- English (TOEIC 825) [2014]
- Japanese (JEPT N1) [2021]

## Interests

**Machine learning, Deep learning, Full stack development, Computer security**

## Work experience

**Data Scientist**

*aetherAI, Oct. 2021 - (Current)*

**Teaching Assistance (TA)**

*NTU EE Machine Learning, Feb. 2021 - Jul. 2021*

*NTU EE Web Programming, Feb. 2021 - Jun. 2021*

*NTU CSIE Bioinformatics and Cheminformatics, Sep. 2020 - Jan. 2021*

**Data Engineer Intern**

*Dcard, Jun. 2020 - Dec. 2020*

- Built an automatic image cropping system to attract users' attention.
- Invented a malicious applicants detection system with SimCLR.
- Established a system to immediately detect offensive comments.

**Software Engineer Intern**

*Institute of Information Science, Academa Sinica, Jul. 2019 - Aug. 2019*

- Leveraged the concept of RGB channels to assist in SNP prediction.

## Honors

**2021** **PyCon APAC Speaker**
Get 3D models out of nothing: Python implementation of deep learning-based 3D models reconstruction from 2D images..

**2021** **PyCon TW Speaker**
Implementation of a deep learning-based saliency detection system by Python

**2020** **HITCON Speaker**
Potential Security and Privacy Issues in Novel Taiwanese National eID system

## Awards

**2022** **Best thesis award**

**2021** **Multi-label Classification on CT Medical Imaging Competition, 3rd prize**
ICH detection enhenced by asymmetric loss with CNN-LSTM approach.

## Recent Projects

**2021** **SUPERB: Speech processing Universal PERformance Benchmark**
Entrusted by NTU, CMU, MIT, and Facebook AI to build a leaderboard web server for SUPERB Benchmark. (https://superbbenchmark.org/)

**2021** **Template is all you need: 2D to 3D reconstruction with template learned by contrastive learning**
Developed a 2D to 3D reconstruction DL model leveraging the template concept.

## Education

**2019~2021** **Master of Science (@CSIE CMDM lab)** GPA 4.2 (Best thesis award)
**Research topics: 3D computer vision, Machine learning, Computer security**
Computer Science (bioinformatics specialization)
*BEBI, EECS, National Taiwan University (NTU)*

**Thesis**
*Look, Listen, and Diagnose: a deep learning based comprehensive Parkinson's disease evaluation system with 3D point cloud and acoustic features*

**2014~2019** **Doctor of Pharmacy** GPA 4.1 (CS-related GPA: 4.3, Outstanding Graduate Award)
*Also got admitted to NTU CSIE.
Clinical Pharmacy
*School of Pharmacy, National Cheng Kung University (NCKU)*

## Publications


**Ho, M. Y.**, et al. (2022) Ultra-high-resolution unpaired stain transformation via Kernelized Instance Normalization. [under review]

*__Ho, M. Y.__, *Liu, L. C., Su, B. H., Wang, S. Y., Hsu, M. T., & Tseng, Y. J. (2021). PanGPCR: predictions for multiple targets, repurposing and side effects. *Bioinformatics*, 37(8), 1184-1186. (*equal contribution)

**Ho, M. Y.**, Kuo, M. C., et al. (2022) *Look, Listen, and Diagnose: a deep learning based comprehensive Parkinson's disease evaluation system with 3D point cloud and acoustic features*. [unpublished manuscript]

**Ho, M. Y.**, Kuo, M. C., et al. (2022) *A 2D camera is all you need: gait analysis with frontal-view 2D video by deep learning-based 3D estimation*. [unpublished manuscript]