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, cyber security, and cryptography.

Skills

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

Language

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

Work experience

Data Scientist

aetherAI, Oct. 2021 - (Current)

- Developed and improved algorithms for various 2D/3D computer vision tasks.
- Invented Kernalize Instance Normalization and published to **ECCV 2022** (**1st author**)
- Supported backend and security teams.

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

- Developed new recommendation algorithms and maintained ETL tasks.
- Invented and integrated an automatic image cropping system into our production.
- Invented an efficient model to detect cyber warriors among 1,000,000+ users.

Software Engineer Intern

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

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

Education

2019~2021 Master of Science (@NTU 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 in 2014.**

Clinical Pharmacy

Pharmacy, College of Medicine, National Cheng Kung University (NCKU)

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

2019 Outstanding Graduate Award

Recent Projects

2022 NTU wheel of dinner

Developed a dinner wheel for NTU students, which currently has 2,000+ users (https://github.com/Kaminyou/NTU-Dinner-Wheel)

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/)

Publications

Ho, M. Y.**, et al. (2022) Ultra-high-resolution unpaired stain transformation via Kernelized Instance Normalization. **ECCV 2022**. (first and corresponding author**)

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*. [under review]

*Liu, L. C., ***Ho, M. Y.**, 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., et al. (2020) Potential security and privacy issues in novel Taiwanese National eID system. TANET 2020

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]