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**
  - 2D/3D computer vision
  - Natural language processing
  - Cyber security

Language

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

Interests

Machine learning, Deep learning, Full stack development, Cyber 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

2021 Outstanding Paper 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) GPA 4.2 (Best thesis award)
Computer Science (bioinformatics specialization)
BEBI, 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)
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]

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.

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]