# Ming-Yang Ho

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## Summary

A passionate data scientist and full stack developer who excels at solving practical problem, especially in 2D/3D CV, audio, and medical signal, by designing ML/DL algorithms and building a full-stack web applications to provide service. In addition, I am also a graphic designer and clinical pharmacist familar with psychiatry.

## Skills

- **Programming related**
  - Python
  - PyTorch
  - JS React
  - C/C++
  - MySQL
  - Web security
  - Docker
  - Linux
  - Git
- **Others**
  - Adobe Ps/Ai/Id/Pr/Lr
  - Psychiatry
  - Clinical pharmacy

## Language

- Mandarin (native)
- English (TOEIC 825) [2014]
- Japanese (JEPT N2) [2018]

## Interests

Machine learning, Deep learning, Full stack development, Web security

## Work experience

**Teaching Assistance (TA)**

*Machine Learning Summer Schools (2021), Jul. 2021 - Aug. 2021*

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

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

*NTU CSIE Computer Science & Information Technology, Jun. 2021 - Jul. 2021*

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

**Data Engineer (ML) 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.

· Built a persona recommendation system.

**Deep Learning Researcher 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 Speaker**
Implementation of a deep learning-based saliency detection system by Python

**2021  SITCON Speaker**
General adversarial attack against Deep Learning model in image, text, and audio domain

**2020  HITCON (Hacks in Taiwan) Speaker**
Potential Security and Privacy Issues in Novel Taiwanese National eID system

## Awards

**2021  Multi-label Classification on CT Medical Imaging Competition, 3rd prize**

**2020  Unsupervised Learning - Dimension Reduction Competition, 1st prize**

## 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.

**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.

**2021  Adversarial attack embedding analysis**
Attempted to explicate which layer in the DL model would be the most vulnerable to the adversarial attack.

**2021  Commander Song 2: ASR adversarial attack**
Developed an adversarial examples generation software by PGD and FGSM algorithms against DeepSpeech 2 ASR model with web server.

## Education

**2019~2021  M.S. in Bioinformatics (CSIE CMDM lab) GPA 4.20**

*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*

**Related courses**

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|---|---|
| DL for CV (A+) | Web programming (A+) |
| DL for 3DCV (A+) | Multimedia security (A+) |
| DL for HLP (A+) | Machine learning security (A+) |
| | Cryptography and network security (A) |

**2014~2019  Pharm.D in Clinical Pharmacy (6 yrs program) GPA 4.06**

*National Cheng Kung University (NCKU)*