


YAN-HE CHEN (Henry)

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 yanherchen@gmail.com

EDUCATION

National Taiwan Normal University

September 2020 - July 2022

Master of Computer Science and Information Engineering

Kaohsiung Medical University

September 2014 - June 2018

Bachelor of Healthcare Administration and Medical Informatics

PUBLICATIONS

Refining Visual Representation for Generalized Zero-Shot Learning via Soft Visual-Semantic Alignment

Yan-He Chen, Mei-Chen Yeh

Master's Thesis

Text-Enhanced Attribute-Based Attention for Generalized Zero-Shot Fine-Grained Image Classification

Yan-He Chen, Mei-Chen Yeh

ACM ICMR 2021

Traditional Chinese Scene Text Detection

IPPR CVGIP 2021 special issue

Yan-He Chen, Chia-Fu Yeh, Yu-Wen Tung, Zhen-Tang Huang, Chieh-Yu Chen, Mei-Chen Yeh

EXPERIENCE

Delta Electronics, Delta Research Center (DRC)

January 2023 - Present

R&D Engineer

- Research and application development of imaging and machine learning
- Integrate the deep model into the application side
 - Verify model accuracy
 - Integrate multiple pre-trained deep models into the application
 - Involves face tracking model, gaze tracking
 - Deploy to multiple platforms (windows, ubuntu) and increase video fps
- Algorithm development
 - Filter multiple object bounding boxes

National Taiwan Normal University, CSIE

September 2022 - January 2023

Research Assistant

- Study the feasibility development of zero-hot learning and self-supervised learning in image recognition, segmentation and object detection. The research is under review at the International AI Conference.

National Cheng Kung University, CSIE

February 2018 - October 2018

Research Assistant

- Develop **web crawlers** to collect unstructured data, clean and filter data, totaling **128 billion words**.
- Train text models (**word2vec**, **seq2seq**) with a total of **200 million sentences, 1TB in size**; and generate question and answer sentences.
- Develop an **android app** to collect the patient's voice, video and text data and send it back to the server. And **integrate pre-trained deep learning models** into the server to analyze the patient's emotions.

Other EXPERIMENTENCE

National Taiwan University

February 2022 - August 2022

Part-time Research Assistant

- Researched the field of **generalized zero-shot learning** advised **Prof. Mei-Chen Yeh**. Our research includes **GAN**, **metric learning**. The work is currently under review at international AI conference.

National Taiwan Normal University

March 2021 - August 2021

Part-time Research Assistant

- Researched the field of **zero-shot learning** advised **Prof. Mei-Chen Yeh**. We improve a zero-shot learning study published in CVPR 2020 to increase its accuracy by **5%**. Our research was published at **ICMR 2021**.

Kaohsiung Medical University, Department of Occupational Therapy

October 2017 - June 2018

Part-Time Research Assistant

- Design and build a **computerized attentional testing system** for patient rehabilitation, reducing patient testing time by an average of **10 minutes**.

KMU Chung-Ho Memorial Hospital, Department of Internal Medicine

September 2017 - June 2018

Part-Time Research Assistant

- Research the design of **mind map** in the operation interface of medical records. I am responsible for building a **humanized interface system** for medical records and auxiliary medical diagnosis.

SKILLS

Programming Language: Java, Python, Javascript, C#

Software: Web, Android App

Deep Learning Framework: PyTorch, TensorFlow

System & Server: Linux, Windows, MySQL

AWARDS

Awarded Outstanding Postgraduate Student

2021

- National Taiwan Normal University

Honorable Mention Award in Artificial Intelligence CUP Award

2021

- Ministry of Education

SELECTED COURSES

Machine Learning

1st Semester 2020/2021

- National Taiwan Normal University

Artificial Neural Network

2nd Semester 2020/2021

- National Taiwan Normal University

Pattern Recognition

1st Semester 2020/2021

- National Taiwan Normal University

Natural Language Processing

2nd Semester 2020/2021

- National Taiwan Normal University

Digital Signal Processing

2nd Semester 2020/2021

- National Taiwan Normal University