

YAN-HECHEN

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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

National Cheng Kung University

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. Then, **visual analysis results**, used to assist physicians in diagnosis and evaluation.

Other EXPERIMENT

National Taiwan University

February 2022 - September 2022

Part-time Research Assistant

Advanced Technologies for Designing Trustable AI Services, MOST 110-2634-F-002-050

- 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 **AAAI 2023** and **journal of pattern recognition**.

National Taiwan Normal University

March 2021 - August 2021

Part-time Research Assistant

Deep Cross-Modal Embedding Models for Multilabel Classification, MOST 108-2221-E-003-017-MY2

- 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**.

- 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	