YAN-HE CHEN

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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 EXPERIMENCE

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