


YAN-HE CHEN (Henry)

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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

Self-Supervised Learning of Pseudo Classes for Generalized Zero-Shot Fine-Grained Recognition

Yan-He Chen and Mei-Chen Yeh

Multimedia Tools and Applications (IF: 3.6) 2024

Indirect Visual-Semantic Alignment for Generalized Zero-Shot Recognition

Yan-He Chen and Mei-Chen Yeh

Multimedia Systems (IF: 3.9) [[paper](#)][[code](#)] 2024

Weakly- and Semi-Supervised Object Localization

Zhen-Tang Huang, **Yan-He Chen** and Mei-Chen Yeh

IEEE ICASSP [[paper](#)] 2023

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

Yan-He Chen and Mei-Chen Yeh

ACM ICMR [[paper](#)] 2021

EXPERIENCE

Delta Electronics, Delta Research Center (DRC)

January 2023 - Present

Senior R&D Engineer

- Survey papers and SOTA methods.
- Improve the performance and efficiency of the current deep model in real-world applications.
- Analyze the gap between AI methods and real-world application, and propose solutions.
- Experience with the following real-world applications:

- Balance Estimation

- Gaze Estimation

- Head Pose Estimation

- Face Detection

- Object Tracking

- Human Pose Detection

National Taiwan Normal University, CSIE

September 2022 - January 2023

Research Assistant

- Study the feasibility development of zero-shot learning and self-supervised learning in image recognition, segmentation and object detection.
- The research was published at ***Multimedia tools and applications (IF: 3.6) 2024.***

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**.
- 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

- We leverage GAN and metric learning to address intra-class differences and inter-class similarities for generalized zero-shot classification tasks.
- This work was published at **Multimedia Systems (IF: 3.9) 2024**.

National Taiwan Normal University

March 2021 - August 2021

Part-time Research Assistant

- I 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