


# YAN-HE CHEN (Henry)

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## EDUCATION

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**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

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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

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**Delta Electronics, Delta Research Center (DRC)**

January 2023 - Present

*Senior R&D Engineer*

- Survey papers and SOTA methods, improve the performance and efficiency of deep model.
- 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      - Action Recognition
  - Face Detection      - Object Tracking      - Human Pose Detection      - Abnormal Video Detection

**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 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

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### 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

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<b>Programming Language:</b>	Java, Python, Javascript, C#
<b>Software:</b>	Web, Android App
<b>Deep Learning Framework:</b>	PyTorch, TensorFlow
<b>System &amp; Server:</b>	Linux, Windows, MySQL

## AWARDS

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### Awarded Outstanding Postgraduate Student

2021

- National Taiwan Normal University

### Honorable Mention Award in Artificial Intelligence CUP Award

2021

- Ministry of Education