


# 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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**Weakly- and Semi-Supervised Object Localization**

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

*IEEE ICASSP 2023*

**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

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**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
  - Build and encrypt API
  - Involves face detection/tracking, gaze tracking and head pose estimation
  - Deploy to multiple platforms (windows, ubuntu)
- 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

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### 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

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**Programming Language:** Java, Python, Javascript, C#

**Software:** Web, Android App

**Deep Learning Framework:** PyTorch, TensorFlow

**System & Server:** 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

## SELECTED COURSES

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**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