



# 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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**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

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

*January 2023 - Present*

*Senior R&D Engineer*

- Research and application development of computer vision and machine learning

**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.

## Other EXPERIMENT

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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 **journal of pattern recognition**.

**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.

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**SKILLS**

<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

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**AWARDS**

<b>Awarded Outstanding Postgraduate Student</b>	<i>2021</i>
<i>- National Taiwan Normal University</i>	
<b>Honorable Mention Award in Artificial Intelligence CUP Award</b>	<i>2021</i>
<i>- Ministry of Education</i>	

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**SELECTED COURSES**

<b>Machine Learning</b>	<i>1st Semester 2020/2021</i>
<i>- National Taiwan Normal University</i>	
<b>Artificial Neural Network</b>	<i>2nd Semester 2020/2021</i>
<i>- National Taiwan Normal University</i>	
<b>Pattern Recognition</b>	<i>1st Semester 2020/2021</i>
<i>- National Taiwan Normal University</i>	
<b>Natural Language Processing</b>	<i>2nd Semester 2020/2021</i>
<i>- National Taiwan Normal University</i>	
<b>Digital Signal Processing</b>	<i>2nd Semester 2020/2021</i>
<i>- National Taiwan Normal University</i>	