

EDUCATION

National Taiwan Normal University	September 2020 - July 2022
<i>Master of Computer Science and Information Engineering</i>	
Kaohsiung Medical University	September 2014 - June 2018
<i>Bachelor of Healthcare Administration and Medical Informatics</i>	

WORK EXPERIENCE

Delta Electronics, Delta Research Center (DRC)	January 2023 - Present
<i>Senior R&D Engineer</i>	
<ul style="list-style-type: none">- Gaze Direction and Head Posture of Factory Workers<ul style="list-style-type: none">- Research leader in deep models for pose estimation and gaze estimation, and developed a Python API.- Result: accuracy 99%, angle error less than 5 degrees, FPS: 40.- Abnormal Event Detection on Factory<ul style="list-style-type: none">- Study the Action Recognition and Abnormal Detection, and use continuous image to detect abnormal events.- Results: 81% accuracy, continuous improvement.- Identification of human body balance status<ul style="list-style-type: none">- Study the knowledge of Pose Estimation and Walking Plan for Biped robot, based on continuous image to recognition balance status.- Achieved identification of static and dynamic equilibrium states, and developed APP and Python versions.- Use speech synthesis models and speech cloning models to generate sounds and use them in existing products.	
National Taiwan Normal University, CSIE	September 2022 - January 2023
<i>Research Assistant</i>	
<ul style="list-style-type: none">- Research self-supervised and Generative models to enhance image recognition with zero-shot learning. <p>This work was published in Multimedia tools and applications (IF: 3.6) 2024.</p>	

SIDE PROJECT

National Taiwan University	February 2022 - August 2022
<ul style="list-style-type: none">- Study on Generalized Zero-Shot Learning image recognition, published in Multimedia Systems 2024 (IF: 3.9).	
National Taiwan Normal University	March 2021 - August 2021
<ul style="list-style-type: none">- Research on zero-shot learning image recognition, published in ACM ICMR 2021.	
Kaohsiung Medical University, Department of Occupational Therapy	October 2017 - June 2018
<ul style="list-style-type: none">- Build a computerized attentional testing system for patient rehabilitation, test time reduced by ten minutes.	

PUBLICATIONS

Self-Supervised Learning of Pseudo Classes for Generalized Zero-Shot Fine-Grained Recognition	
Yan-He Chen and Mei-Chen Yeh	<i>Multimedia Tools and Applications (IF: 3.6) [paper] 2024</i>
Indirect Visual-Semantic Alignment for Generalized Zero-Shot Recognition	
Yan-He Chen and Mei-Chen Yeh	<i>Multimedia Systems (IF: 3.9) [paper][code] 2024</i>
Weakly- and Semi-Supervised Object Localization	
Zhen-Tang Huang, Yan-He Chen and Mei-Chen Yeh	<i>IEEE ICASSP [paper] 2023</i>
Text-Enhanced Attribute-Based Attention for Generalized Zero-Shot Fine-Grained Image Classification	
Yan-He Chen and Mei-Chen Yeh	<i>ACM ICMR [paper] 2021</i>