

Yu-Yang Zhuang

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EDUCATION

National Tsing Hua University

Hsinchu, Taiwan

Master of Electrical Engineering

Sep 2022 – Jul 2024 (Expected)

- **Advisor:** Min Sun
- **Relevant Course:** Data Mining, Deep Learning, Machine Learning, Parallel Programming, Computer Vision

National Taipei University of Technology

Taipei, Taiwan

Bachelor of Electrical Engineering

Sep 2017 – Jun 2021

- **Advisor:** Yang-Lang Chang
- **Relevant Course:** Deep Learning with TensorFlow, Signals and Systems

INDUSTRIAL COLLABORATION

Human activity efficiency analysis AI system for Mirle | Python

[\[Web\]](#) | Mar 2022 – June 2023

National Tsing Hua University Vision Science Lab, advised by Min Sun

- Design an active learning and data enrichment strategy, aimed at extracting crucial data from daily videos, reducing labeling costs by 33% and increasing accuracy by 20%.
- Designed and integrated an automated system for training, validation, labeling, and data management.
- Grafana and MySQL integration for effective monitoring and data visualization.

PROJECT EXPERIENCE

Kaggle competition: Tweets emotion classification (Top 6%) | Python [\[Web\]](#) | Nov 2023 – Dec 2023

National Tsing Hua University Data Mining course

- Ranked 6th out of 99 participants in Kaggle competition.

Parallelize Image Stitching | C++

[\[Web\]](#) | Dec 2022 – Jan 2023

National Tsing Hua University Parallel Programming course

- I optimized image stitching on a GPU achieving a 5.3x speedup through memory coalescing, loop unrolling, shared memory, and padding techniques.

Edge AI | Python

June 2023 – Oct 2023

National Tsing Hua University Vision Science Lab, advised by Min Sun

- Deployed object detection models on edge devices for real-time, resource-efficient inference.

INTERNSHIP EXPERIENCE

AI Algorithm Engineer Intern, COMPAL Inc. Taipei, Taiwan

Feb 2021 – Jun 2021

Python/TensorFlow/PyTorch

- Collaborated with the Brazilian AI team on the development of the AI product Pixsee, involving tasks related to object detection and emotion classification.
- Worked on Works With Alexa Program for ensuring AI product get the certification.

SKILLS

Programming Languages: Python, C++

Frameworks: PyTorch, TensorFlow, Keras, OpenCV, CUDA, OpenMP

Developer Tools: Git, Linux, Shell Script

System design: Design Pattern, OOP

Languages: Mandarin (Native), English (fluent)