

TZU CHUN, HSU

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EDUCATION

Zhejiang University

Bachelor of Engineering in Computer Science and Technology

- Last two years GPA: 3.30/4.00

09 2016 – 07 2020

Hangzhou, China

National Yang Ming Chiao Tung University

Master of Science in Computer Science and Engineering

- First year GPA: 4.04/4.30

09 2022 – 08 2024 (Expected)

Hsinchu, Taiwan

PROJECTS

Chord learning and adversarial framework for symbolic music generation

04 2018 – 05 2019

Hangzhou, China

- Proposed a chord learning framework for multi-track symbolic music generation based on VAE and GAN.
- Introduced WGAN-GP to solve mode collapse and vanishing gradient problem.

Voice Conversion Based on Generative Adversarial Networks

03 2020 – 05 2020

Hangzhou, China

- Improved StarGAN-VC2 based on multi-speaker non-parallel corpus.
- Introduced WGAN-div, AdaIN layer, and neural vocoder, WaveGlow, for better generated audio quality.

Synthetic Data Generation using Conditional Normalizing Flows

03 2023 – 05 2023

Hsinchu, Taiwan

- Ability to replace original datasets and maintain same data distribution, and also highlight outliers for analysis.
- Built a browser-server web application to visualize results.

Floating image quality compensation algorithm technology

06 2023 – 12 2023 (Expected)

Hsinchu, Taiwan

- Improved image quality of poorly captured floating images due to hardware tolerance based on CNNs.
- Ability to train and employ on different devices.

AWARDS

CCCC-Mobile Application Innovation Contest

First Prize and Most Innovative Award

09 2018

Hangzhou, China

The 4th "Internet+" Innovation and Entrepreneurship Competition

Gold Award

09 2018

Hangzhou, China

College Students' Innovative Entrepreneurial Training Plan Program (SRTP)

Excellent

04 2018 – 05 2019

Hangzhou, China

SKILLS

Languages

Python, Java, C, JavaScript, SQL

Technologies/Frameworks

PyTorch, Flask, Spring Boot, Vue.js, Git, MySQL, MongoDB