TZU CHUN, HSU

New Taipei City, Taiwan

📞 +886-987605719 ✉ vm3y3rmp40719@gmail.com in tzu-chun-hsu-ab4b3b188 Oscarshu0719

EDUCATION

Zhejiang University — 09 2016 – 07 2020
Bachelor of Engineering in Computer Science and Technology — *Hangzhou, China*

- Last two years GPA: 3.30/4.00

National Yang Ming Chiao Tung University — 09 2022 – 08 2024 (Expected)
Master of Science in Computer Science and Engineering — *Hsinchu, Taiwan*

- First year GPA: 4.04/4.30

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 results.

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 using CNNs.
- Ability to train and employ on different devices.

AWARDS

CCCC-Mobile Application Innovation Contest — 09 2018
First Prize and Most Innovative Award — *Hangzhou, China*

The 4th "Internet+" Innovation and Entrepreneurship Competition — 09 2018
Gold Award — *Hangzhou, China*

College Students' Innovative Entrepreneurial Training Plan Program (SRTP) — 04 2018 – 05 2019
Excellent — *Hangzhou, China*

SKILLS

Languages   Python, Java, C, JavaScript, SQL
Technologies/Frameworks   PyTorch, Flask, Spring Boot, Vue.js, Git, MySQL, MongoDB