TZU CHUN, HSU

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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*
- Overall GPA: 4.08/4.30

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 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 – 07 2024 (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   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