Yen-Tung (Arthur) Yeh

+886-978-222-892 | Email | Personal Website | GitHub | Google Scholar

Education

National Taiwan University, Taiwan — Taipei, Taiwan
M.S. in Graduate Institute of Communication Engineering — *Feb. 2024 - Now*

National Taiwan University, Taiwan — Taipei, Taiwan
B.S. in Computer Science and Information Engineering — *Sep. 2017 - Aug. 2022*

Publications

Google Scholar ID: nTaffy0AAAAJ

[1] **Yen-Tung Yeh**, Wen-Yi Hsiao, and Yi-Hsuan Yang. "Hyper Recurrent Neural Network: Condition Mechanisms for Black-box Audio Effect Modeling." in 27th International Conference on Digital Audio Effects (**DAFx-24**) (code, paper)
[2] **Yen-Tung Yeh**, Wen-Yi Hsiao, and Yi-Hsuan Yang. "PyNeuralFx: A Python Package for Neural Audio Effect Modeling." (**Preprint**) (code, paper)
[3] Yu-Hua Chen, **Yen-Tung Yeh**, Yuan-Chiao Cheng, Jui-Te Wu, Yu-Hsiang Ho, Jyh-Shing Roger Jang, and Yi-Hsuan Yang. "Towards Zero-Shot Amplifier Modeling: One-to-Many Amplifier Modeling via Tone Embedding Control." in Proceedings of the 25th International Society for Music Information Retrieval Conference (**ISMIR**), San Francisco, CA, USA, 2024 (paper)
[4] **Yen-Tung Yeh**, Yu-Hua Chen, Yuan-Chiao Cheng, and Jui-Te Wu, Jun-Jie Fu, Yi-Fan Yeh, Yi-Hsuan Yang. "DDSP Guitar Amp: Interpretable Guitar Amplifier Modeling." (**Preprint**), (paper)
[5] **Yen-Tung Yeh**, Bo-Yu Chen and Yi-Hsuan Yang. "Exploiting Pre-Trained Feature Networks for Generative Adversarial Networks in Audio-Domain Loop Generation" in Proceedings of the 23rd International Society for Music Information Retrieval Conference (**ISMIR**), India, Bengaluru, 2022 (code, paper)
[6] Tun-Min Hung, Bo-Yu Chen, **Yen-Tung Yeh**, and Yi-Hsuan Yang. "A Benchmarking Initiative for Audio-Domain Music Generation Using the Freesound Loop Dataset" in Proceedings of the 22nd International Society for Music Information Retrieval Conference (**ISMIR**), Virtual, 2021 (code, paper)

Professional Experience

Audio Deep Learning Intern — Mar. 2024 – Sep. 2024
Positive Grid — *Taipei, Taiwan*
- Research topic: DDSP-based neural amplifier modeling

Research Scientist/Engineeing Collaborator — Oct. 2023 – Now
Taipei Music Center — *Taipei, Taiwan*
- Project leader: Bo-Yu Chen, Lu-Rong Chen
- Research topic: Automatic AI sampling

Research Assistant — Aug. 2023 – Jan. 2024
Music and AI Lab, National Taiwan University — *Taipei, Taiwan*
- Advisor: Yi-Hsuan Yang
- Research topic: Neural audio effect modeling

Research Assistant — Aug. 2022 - Mar.2023
Research Center for IT Innovation, Academia Sinica — *Taipei, Taiwan*
- Advisor: Yi-Hsuan Yang
- Research topic: Neural audio effect modeling

Projects

Suhr Riot Pedal Plugin | *Audio Plugin* — Nov. 2023 – Dec. 2023
- Using neural network to emulate the Suhr Riot Pedal
- Translating the neural network model to C++ with JUCE

DDSP-Piano Pytorch | *Paper Reimplementation* — Sep. 2022 – Oct. 2022
- Reimplemented the DDSP-Piano model via the PyTorch framework

- Open source on the following Github-link

Unsupervised Automatic Mixing | *Prototypes* Sep. 2021 – Dec. 2021

- Using GAN-based approach to automix four tracks
- Using source separation as the discriminator to enhance the mixture quality

Technical Skills

Languages: Mandarin(native), English
Programming Languages: Python, C/C++
Frameworks: Pytorch