

Yen-Tung (Arthur) Yeh

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EDUCATION

National Taiwan University, Taiwan

Ph.D. in Graduate Institute of Communication Engineering

Taipei, Taiwan

Feb. 2025 - Now

National Taiwan University, Taiwan

M.S. in Graduate Institute of Communication Engineering

Taipei, Taiwan

Feb. 2024 - Dec. 2024

National Taiwan University, Taiwan

B.S. in Computer Science and Information Engineering

Taipei, Taiwan

Sep. 2017 - Aug. 2022

PUBLICATIONS

Google Scholar ID: [nTaffy0AAAAJ](#)

Conference Papers

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." (**ICASSP-25**), (**Oral Presentation**), ([paper](#), [demo](#), [slides](#), [poster](#))

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-24**), San Francisco, CA, USA, 2024 ([paper](#), [demo](#))

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**), (**Oral Presentation**) ([paper](#), [code](#), [poster](#))

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-22**), India, Bengaluru, 2022 ([paper](#), [code](#))

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-21**), Virtual, 2021 ([paper](#), [code](#))

Workshop Papers & Late-Breaking Demos

Yi-Lin Jiang, Chia-Ho Hsiung, **Yen-Tung Yeh**, Lu-Rong Chen, Bo-Yu Chen. "AI TrackMate: Finally, Someone Who Will Give Your Music More Than Just 'Sounds Great!'" **NeurIPS 2024 Creativity AI Track** ([paper](#), [demo](#))

Yen-Tung Yeh, Wen-Yi Hsiao, and Yi-Hsuan Yang. "PyNeuralFx: A Python Package for Neural Audio Effect Modeling." (**ISMIR LBD 2024**) ([paper](#), [code](#), [poster](#))

Yu-Hua Chen, Yuan-Chiao Cheng, **Yen-Tung Yeh**, Jui-Te Wu, Yu-Hsiang Ho, Jyh-Shing Roger Jang, and Yi-Hsuan Yang. "Demo of Zero-Shot Guitar Amplifier Modelling: Enhancing Modeling with Hyper Neural Networks." (**ISMIR LBD 2024**) ([paper](#))

Under Review

Yu-Hua Chen, Yuan-Chiao Cheng, **Yen-Tung Yeh**, Jui-Te Wu, Jyh-Shing Roger Jang, Yi-Hsuan Yang. "Towards Generalizability to Tone and Content Variations in the Transcription of Amplifier Rendered Electric Guitar Audio" **Under Review** ([paper](#), [demo](#))

PROFESSIONAL EXPERIENCE

Deep Learning Audio Intern <i>Positive Grid</i> <ul style="list-style-type: none">Research topic: Unified Framework for Guitar Tone Transfer	April. 2025 – Now <i>Taipei, Taiwan</i>
Research intern <i>Sony AI</i> <ul style="list-style-type: none">Advisor: Junghyun (Tony) KooResearch topic: Mixing Representation Learning	Sep. 2024 – Dec. 2024 <i>Tokyo, Japan</i>
Deep Learning Audio Intern <i>Positive Grid</i> <ul style="list-style-type: none">Research topic: DDSP-based Neural Amplifier Modeling	Mar. 2024 – Sep. 2024 <i>Taipei, Taiwan</i>
Research Scientist/Engineering Collaborator <i>Rhythm Culture Corporation, Taipei Music Center</i> <ul style="list-style-type: none">Project leader: Bo-Yu Chen, Lu-Rong ChenResearch topic: LLM-based Music Production Understanding	Oct. 2023 – Sep. 2024 <i>Taipei, Taiwan</i>
Research Assistant <i>Music and AI Lab, National Taiwan University</i> <ul style="list-style-type: none">Advisor: Yi-Hsuan YangResearch topic: Neural Audio Effect Modeling	Aug. 2023 – Jan. 2024 <i>Taipei, Taiwan</i>
Research Assistant <i>Research Center for IT Innovation, Academia Sinica</i> <ul style="list-style-type: none">Advisor: Yi-Hsuan YangResearch topic: Neural Audio Effect Modeling	Aug. 2022 - Mar.2023 <i>Taipei, Taiwan</i>

SELECTED HONORS & AWARDS

NSTC Graduate Research Fellowship (\$48000) <ul style="list-style-type: none">National Science and Technology Council	2024-2027
Telecom Industry Excellence Fellowship (\$80000) <ul style="list-style-type: none">Graduate Institute of Communication Engineering, National Taiwan University	2024-2028

INVITED TALKS

Electric Guitar Tone Research in Audio Effect and Machine Learning <ul style="list-style-type: none">Invited talk @ Music and Audio Research Group (MARG) at Seoul National University Slides	Sep. 2024
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PROFESSIONAL SERVICES

Conference Reviewer <ul style="list-style-type: none">ICASSP (2025), IJCNN (2025), ISMIR (2025)
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PROJECTS

Suhr Riot Pedal Plugin <i>Audio Plugin</i> <ul style="list-style-type: none">Using neural network to emulate the Suhr Riot PedalTranslating the neural network model to C++ with JUCE	Nov. 2023 – Dec. 2023
DDSP-Piano Pytorch <i>Paper Reimplementation</i> <ul style="list-style-type: none">Reimplemented the DDSP-Piano model via the PyTorch frameworkOpen source on the following Github-link	Sep. 2022 – Oct. 2022
Unsupervised Automatic Mixing <i>Prototypes</i> <ul style="list-style-type: none">Using GAN-based approach to automix four tracksUsing source separation as the discriminator to enhance the mixture quality	Sep. 2021 – Dec. 2021

TECHNICAL SKILLS

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