

HSIAO-TZU HUNG

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EDUCATION

National Taiwan University *Start from March 2020, plan to graduate in Feb. 2022*
M.S @ Computer Science
National Tsing Hua University *September 2010 – June 2014*
B.S @ Physics

PROGRAMMING SKILLS AND COURSES

Machine learning: Python, PyTorch, TensorFlow
Engineering: Git, Linux, MongoDB, Docker, verilog, C++

WORK EXPERIENCE

Amazon Ring, Taiwan *June 2021 - Aug. 2021*
Acoustic engineering Intern

- Machine learning on speech processing

Research Center for IT Innovation, Academia Sinica, Taiwan *Start from March 2020*
Part-time Machine Learning Research Assistant; supervised by Dr. Yi-Hsuan Yang

- Building an emotion-based automatic piano composition model using self-attention based Transformers, within a joint project with Dr. Juhan Nam's group at KAIST, South Korea.

Taiwan AI Labs, Taiwan *Feb. 2019 – Feb. 2020*
Full-time Machine Learning Research Internship

- Automatic music generation
- Music emotion recognition

Institute of Information Science, Academia Sinica, Taiwan *July 2018 – July 2019*
Full-time Research Assistant; supervised by Dr. Hsin-Min Wang

- Acquired hands-on experience in automatic music generation using recurrent neural nets (RNNs).
- Acquired hands-on experiences in speech processing and natural language processing.

PUBLICATIONS

Hsiao-Tzu Hung, Joann Ching, Seungheon Doh, Nabin Kim, Juhan Nam and Yi-Hsuan Yang, “**EMOPIA: A Multi-Modal Pop Piano Dataset For Emotion Recognition and Emotion-based Music Generation**,” in *Proc. International Society for Music Information Retrieval (ISMIR)*, 2021.

Hsiao-Tzu Hung, Chung-Yang Wang, Yi-Hsuan Yang, Hsin-Min Wang, “**Improving automatic Jazz melody generation by transfer learning techniques**,” in *Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, 2019.

Hsiao-Tzu Hung, Yu-Hua Chen, Maximilian Mayer, Michael Vötter, Eva Zangerle, Yi-Hsuan Yang “**MediaEval 2019 Emotion and Theme Recognition task: A VQ-VAE based approach**”, in *Proc. MediaEval Benchmarking Initiative for Multimedia Evaluation (MediaEval)*, 2019.