Yun-Ning Hung (洪韻甯)

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I currently conduct research on applying machine learning to music information retrieval. My research interests include audio auto-tagging, music transcription and music generation. Before this, I was an application and web developer. I am also an amateur multi-instrument player.

Education

M. S in Music Technology, Georgia Institute of Technology   *2019 Sep.-*

B. S. in Electrical Engineering, National Cheng Kung University   *2012 Sep. - 2016 Jun.*

- Cumulative GPA: 3.764/4.0

UW Madison Exchange Program, University of Wisconsin Madison   *2015 Sep. - 2015 Dec.*

- Cumulative GPA: 3.67/4.0

Working Experience

Research Assistant at Academia Sinica   *2017 Sep. - present*

- Advisor: Dr. Yi-Hsuan Yang
- Project: audio auto-tagging, instrument recognition, music transcription, and music generation

Research Intern at KKBOX Inc.   *2017 Nov. - 2019 Feb*

- Advisor: Yi-An Chen
- Project: music auto tagging, music generation

App and Web Developer at Adv.Media (銳比數位)   *2016 Apr. - 2017 Jun.*

- Developed AR/VR applications by Unity
- Back-end system development and dataset management
- Developed web platforms for internal management system

Front-End Developer at Jimbo's Coffeeine, a student startup company   *2014 Aug. - 2015 Aug.*

- Developed algorithm and web platforms to help facilitate teaching

Publication

[1] **Musical Composition Style Transfer via Disentangled Timbre Representations**
Yun-Ning Hung, I-Tung Chiang, Yi-An Chen and Yi-Hsuan Yang
submitted to *International Joint Conferences on Artificial Intelligence*, *2019*

[2] **Learning Disentangled Representations for Timber and Pitch in Music Audio**
Yun-Ning Hung, Yi-An Chen and Yi-Hsuan Yang
arXiv preprint arXiv: 1811.03271, Nov. 2018.

[3] **Multitask learning for frame-level instrument recognition**
Yun-Ning Hung, Yi-An Chen and Yi-Hsuan Yang
IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP), 2019.

[4] **Frame-level Instrument Recognition by Timbre and Pitch**
Yun-Ning Hung and Yi-Hsuan Yang
Proceeding of the 19th International Society for Music Information Retrieval Conference (ISMIR), 2018

[5] **Hit Song Prediction for Pop Music by Siamese CNN with Ranking Loss**
Lang-Chi Yu, Yi-Hsuan Yang, Yun-Ning Hung, Yi-An Chen
arXiv preprint arXiv:1710.10814, Oct. 2017

(For more details, please visit my website: https://biboamy.github.io/)