Yun-Ning Hung (洪韻甯)

Contact: biboamybibo@gmail.com

Github   LinkedIn

Personal Web   Google Scholar

A machine learning researcher, also a web and application developer

Education

M. S in Music Technology, Georgia Institute of Technology   *2019 Aug. ~ Present*

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

Software Engineer Intern at Amy.app   *2019 Jun. - 2019 Aug.*
- An online AI tutoring company. My position was as a typescript developer on feedback system and machine learning researcher on auto math question generation

Research Assistant at Academia Sinica   *2017 Sep. - 2019 Jun.*
- Research on instrument activity detection and music generation problem by using deep neural network, with Dr. Yi-Hsuan Yang

Partnership with KKBOX Inc.   *2017 Nov. - 2019 Jun.*
- Research on music auto-tagging (genre, emotion, context) problem by analyzing different neural networks and musical features.

App and Web Developer at Adv.Media (銳比數位)   *2016 Apr. - 2017 Jun.*
- My position was as an AR/VR application developer by using Unity. I was also in charge of web development

Front-End Developer at Jimbo's Coffeeine   *2014 Aug. - 2015 Aug.*
- A student startup for facilitating teaching. I was responsible for web platforms development

Publication

[1] **Musical Composition Style Transfer via Disentangled Timbre Representations**
Yun-Ning Hung, I-Tung Chiang, Yi-An Chen and Yi-Hsuan Yang
International Joint Conferences on Artificial Intelligence (IJCAI), 2019
arXiv preprint arXiv:1710.10814, Oct. 2017

[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
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.

Technical Skill

Web & Application   HTML, Javascript, Typescript, CSS, PHP-SQL, and Unity

Machine Learning   Python, Pytorch mostly, but sometime in Tensorflow

Others   Git, Linux

Instrument   Guitar, Piano, and Flute

Language   Chinese (mother tongue), English, Spanish