

Yun-Ning Hung (洪韻甯)

Contact: biboamybibo@gmail.com



GitHub



LinkedIn



Personal Web



Google Scholar



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, an online AI tutoring company

2019 Jun. - 2019 Aug.

- Implement and research on different machine learning models for automatically solving math questions.
- Develop feedback system by using typescript.

Research Assistant at Academia Sinica, national academy of Taiwan

2017 Sep. - 2019 Jun.

- Research on applying deep learning algorithm to music information retrieval problems, with Dr. Yi-Hsuan Yang.
- Published five papers which contribute to audio auto-tagging, music transcription and music generation problems.

Industrial Partnership with KKBOX Inc, the biggest online streaming company in Taiwan

2017 Nov. - 2019 Jun.

- Research on music classification problem by analyzing different neural networks and musical features.
- Improve instrument detection (10%↑), genre classification (3%↑), and context classification (3%↑) result, which is used to generate more efficient playlist.

App and Web Developer at Adv.Media (銳比數位), application company

2016 Apr. - 2017 Jun.

- Unity developer for AR/VR applications.
- Developed web platform to visualize and manage database

Front-End Developer at Jimbo's Coffeeine, student startup for education

2014 Aug. - 2015 Aug.

- Develop web platform to visualize analyzed data.

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

[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 |