

Yun-Ning Hung (洪韻甯)

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 biboamy  yun-ning-hung  <https://biboamy.github.io/>  Yun-Ning Hung

Education

- M. S in Music Technology**, Georgia Institute of Technology 2019 Aug. - Present
- B. S. in Electrical Engineering**, National Cheng Kung University 2012 - 2016
- Cumulative GPA: 3.764/4.0
- UW Madison Exchange Program**, University of Wisconsin Madison 2015 - 2015
- Cumulative GPA: 3.67/4.0

Working Experience

- Software Engineer Intern** at Amy.app, a NZ based online AI tutoring company 2019 Summer.
- Research on machine learning models to automatically solve math questions.
 - Develop feedback system by using typescript.
- Research Assistant** at Academia Sinica, national academy of Taiwan 2017 - 2019
- Research on applying deep learning algorithm to music information retrieval problems.
 - Published five papers, including one top conference paper, which contribute to audio auto-tagging, music transcription and music generation.
 - Invited speaker of the 6th TMAC workshop
- Industrial Partnership** with KKBOX Inc, the biggest online streaming company in Taiwan 2017 - 2019
- Cooperate with machine learning team to research on music auto-tagging problem.
 - Proposed several new model architectures which averagely improve auto-tagging result (F-score) by (5%↑) and help generate more efficient playlist.
- App and Web Developer** at Adv.Media (銳比數位), application company 2016 - 2017
- Participated in four AR/VR applications development by using Unity, which were launched on both Google Play and App Store
 - Developed web platform to visualize and manage database

Publication

- [1] **Musical Composition Style Transfer via Disentangled Timbre Representations** Peer-Reviewed
Yun-Ning Hung, I-Tung Chiang, Yi-An Chen and Yi-Hsuan Yang First-Author
International Joint Conferences on Artificial Intelligence (IJCAI), 2019
- [2] **Frame-level Instrument Recognition by Timbre and Pitch** Peer-Reviewed
Yun-Ning Hung and Yi-Hsuan Yang First-Author
International Society for Music Information Retrieval Conference (ISMIR), 2018
- [3] **Multitask learning for frame-level instrument recognition** Peer-Reviewed
Yun-Ning Hung, Yi-An Chen and Yi-Hsuan Yang First-Author
IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP), 2019.
- [4] **Learning Disentangled Representations for Timber and Pitch in Music Audio** Non Peer-Reviewed
Yun-Ning Hung, Yi-An Chen and Yi-Hsuan Yang First-Author
arXiv preprint arXiv: 1811.03271, Nov. 2018.
- [5] **Hit Song Prediction for Pop Music by Siamese CNN with Ranking Loss** Non Peer-Reviewed
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
Language	Chinese (mother tongue), English, Spanish