

Yun-Ning(Amy) Hung

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I am currently a research assistance at Academia Sinica, Taipei, Taiwan. I apply machine learning to Music Information Retrieval. I am also a App/web developer and amateur instrument player.

Education

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| 2012 Aug. - 2016 Jun | B. S. in Electrical Engineering (GPA 3.764/4.0)
National Cheng Kung University, Taiwan |
| 2014 Aug. - 2014 Dec | UW Madison Exchange Program (GPA 3.67/4.0)
University of Wisconsin Madison, US |

Work Experience

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| 2017 Sep. - present | Research Assistant in Research Center for IT Innovation, Academia Sinica, working on applying machine learning algorithm to Music Information Retrieval(MIR) |
| 2016 Apr. - 2017 Jun | App and Web developer in Adv.Media. Creating interactive multimedia application via AR/VR/MR technology |
| 2014 Aug. - 2015 Aug. | Web developer in edü·elf, a student startup company based in Tainan, Taiwan. Working on developing exam analysis system for high school teachers |
| 2014 Jan. - 2016 Aug. | Personnel tutor teaching junior/senior high school math and science
Tzu Chi Senior High School guitar club mentor |
| 2014 Jul. - 2014 Aug. | Activities PR Personnel in social welfare organization for immigrants and foreigners. Working on organizing activities and website management |

Project

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| 2017 Sep. - present | Music Auto-tagging , advised by Dr. Yi-Hsuan Yang, director of Music and AI Lab at Academia Sinica. <ul style="list-style-type: none">• Instrument recognition – research on deep learning model to handle music harmonic structure; implemented it to do frame-level tagging for polyphonic music [1]• Music genre tagging – research on deep learning structure for music genre and subgenre tagging• Music emotion tagging – research on cross domain (audio and symbolic) tagging and apply the tagging result to conditional symbolic drum generation |
| 2018 May. - present | Music Streaming , the extended project of instrument recognition. Research on polyphonic music auto-transcription |
| 2016 Feb. - 2016 Jun. | The sound of summer, an conductive silver ink painting presents at NCKU Art Festival, which enables audiences to explore sound effect through touching the painting |

2015 Sep. - 2015 Dec.	Ticket Exchange System , student project done in course “CS506 – Software Engineering” given by Prof. Peter Ohmann at UW-Madison. <ul style="list-style-type: none"> Developed a mobile platform for students to sell, buy or bid tickets for sport events.
2014 Feb. - 2014 Jun.	Homework Discussion Social Media , student project done in course “Web Programming” given by Prof. Chang Tien-Hao at NCKU. <ul style="list-style-type: none"> Developed social platform for students to exchange their notes, homework or publications

Publication

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- [1] Yun-Ning Hung and Yi-Hsuan Yang, “Frame-level Instrument Recognition by Timbre and Pitch”, in Proceeding of the 19th International Society for Music Information Retrieval Conference (ISMIR), Sep. 2018
- [2] Lang-Chi Yu, Yi-Hsuan Yang, Yun-Ning Hung, Yi-An Chen, “Hit Song Prediction for Pop Music by Siamese CNN with Ranking Loss” in arXiv preprint arXiv:1710.10814, Oct. 2017

Academic Award

2018	WRMIR Travel Grant for ISMIR 2018
2015 Fall	Scholarships for Excellent Students to Study Abroad
2015 Spring	Honorable Mention in Campus App Creativity Competition
2013 Aug. - 2014 Jun.	Academic Excellence Award (For the top 10% students in the class)
2012 Sep. - 2016 Jun	Taipei Association of Medical Technologists Award

Skill

Language	Mandarin(mother tongue), English(Fluent), Spanish (Familiar)
Technical Skills	Programming: Python, C#, PyTorch, Git Web: HTML, CSS, Javascript, PHP-SQL Instrument: Piano, Flute, Guitar, Harmonica

(please visit my website for more details: <https://biboamy.github.io/amyhung/>)

Other Experience

2015 Jun. - 2016 Jun	Student ambassador and Chinese tutor for Foreign students in NCKU
2014 Spring	Resident performer in Imagine Caf'e, Tainan, Taiwan
2014 Spring	Win the second place in the 17 th South Acoustic Song Competition
2014 Spring	Win the third place in the 34 th NCKU Folk Song Competition
2014 Winter	Win the sixth place in the song writing competition, 15 th South Guitar Cup
2014 Aug. - 2015 Jan	Vice president of NCKU Guitar Club
2013 Jan. - 2014 Jan.	Volunteer in Caring Club and Elder Protection Center