Yu-Siang (Remy) Huang

APPLY MACHINE LEARNING TO MUSIC

✉ sm840816@gmail.com | ⌂ remyhuang | in yu-siang-remy-huang-b88669141

Nothing changes if nothing changes.

Education

National Taiwan University (NTU) — *Taipei, Taiwan*
M.S. IN COMPUTER SCIENCE — *September 2018 - July 2020*
- Thesis: Pop piano music generation using chord-encoded transformer
- Supervised by Yi-Hsuan Yang (Academia Sinica) and Jyh-Shing Roger Jang (NTU)

National Tsing Hua University (NTHU) — *Hsinchu, Taiwan*
B.S. IN INDUSTRIAL ENGINEERING — *September 2013 - June 2017*
- Thesis: Mobile gesture-driven HCI techniques based on 3D dynamic time warping and machine learning algorithms
- Supervised by Szu-Hao Huang (NCTU)

Experience

Multimedia Research Center @ Tencent Music Entertainment (TME) — *Shenzhen, China*
RESEARCHER — *April 2020 - Present*
- Working on MIR tasks for QQ Music (one of the largest music streaming services in China)
- Hit song prediction and all sort of musical embeddings involving all sort of MIR tasks

Music Team @ Taiwan AI Labs — *Taipei, Taiwan*
RESEARCH INTERN (JUNE 2019 - DECEMBER 2019) & MACHINE LEARNING ENGINEER (JANUARY 2020 - MARCH 2020) — *June 2019 - March 2020*
- Working on symbolic-domain MIR tasks such as chord recognition and music generation
- Papers accepted by **ACM Multimedia 2020** and **ISMIR 2020**

Xiaoice @ Microsoft — *Beijing, China*
RESEARCH INTERN (SUPERVISED BY RUIHUA SONG) — *March 2018 - August 2018*
- Working on music-related NLP tasks such as Chinese lyrics generation, and mondegreen generation

Music and AI Lab @ Academia Sinica — *Taipei, Taiwan*
RESEARCH ASSISTANT (SUPERVISED BY YI-HSUAN YANG) — *June 2017 - February 2018*
- Working on audio-domain MIR tasks such as genre/emotion classification, highlight extraction, and AI DJ project
- Papers accepted by **APSIPA 2017**, **AAAI 2018** and **Transactions of ISMIR**

Publication

Automatic composition of guitar tabs by transformers and groove modeling — *ISMIR 2020*
Yu-Hua Chen, Yu-Siang Huang, Wen-Yi Hsiao, Yi-Hsuan Yang

Pop music transformer: Beat-based modeling and generation of expressive pop piano compositions — *ACM Multimedia 2020*
Yu-Siang Huang, Yi-Hsuan Yang

Pop music highlighter: Marking the emotion keypoints — *Transactions of ISMIR vol.1, no.1*
Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang

Generating music medleys via playing music puzzle games — *AAAI 2018*
Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang

Music thumbnailing via neural attention modeling of music emotion — *APSIPA 2017*
Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang