

Yu-Siang (Remy) Huang

APPLY MACHINE LEARNING TO MUSIC

☑ sm840816@gmail.com | **①** 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 HCl 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 (7-MONTH) & MACHINE LEARNING ENGINEER (3-MONTH)

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