

# Yu-Siang (Remy) Huang 黃郁翔

• apply machine learning to music • sm840816@gmail.com

## NOW

### Taiwan AI Labs

Machine Learning Engineer @ Music Team

2020/01 - Present

Taipei, Taiwan

⇒ Machine learning algorithms for music retrieval and generation

## EDUCATION

### National Taiwan University

M.S. @ Computer Science

2018/09 - Present

Taipei, Taiwan

### National Tsing Hua University

B.S. @ Industrial Engineering

2013/09 - 2017/06

Hsinchu, Taiwan

## WORK EXPERIENCE

### Taiwan AI Labs

Research Intern @ Music Team, supervised by Yi-Hsuan Yang

2019/06 - 2019/12

Taipei, Taiwan

⇒ Music generation by Transformer, and symbolic-domain music information retrieval

### Microsoft

Software Engineering Intern @ Xiaoice Science Team, supervised by Ruihua Song

2018/03 - 2018/08

Beijing, China

⇒ Lyrics generation, monodegreen generation, and story keyword extraction

### Academia Sinica

Research Assistant @ Music and Audio Computing Lab, supervised by Yi-Hsuan Yang

2017/06 - 2018/02

Taipei, Taiwan

⇒ Audio-domain music information retrieval, highlight extraction, and genre/mood classification

## PUBLICATION

### [1] Pop Music Transformer: Generating Music with Rhythm and Harmony

Yu-Siang Huang, Yi-Hsuan Yang

arXiv:2002.00212, 2020

▷ open source: <https://github.com/YatingMusic/remi>

### [2] Pop Music Highlighter: Marking the Emotion Keypoints

Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang

Transactions of the International Society for Music Information Retrieval, vol.1, no.1, Sep 2018

▷ open source: <https://github.com/remyhuang/pop-music-highlighter>

### [3] Generating Music Medleys via Playing Music Puzzle Games

Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang

AAAI Conference on Artificial Intelligence, Feb 2018 (**24.6% acceptance rate**)

▷ open source: <https://github.com/remyhuang/music-puzzle-games>

### [4] Music Thumbnailing via Neural Attention Modeling of Music Emotion

Yu-Siang Huang, Szu-Yu Chou, Yi-Hsuan Yang

Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, Dec 2017