

Education

Tsinghua University

September 2020 - Present

Bachelor of Science in Engineering Major in Automation GPA 3.858/4.0

Related Coursework:

 $\begin{array}{cccc} \circ & \mathsf{Python} & & \circ & \mathsf{C} \\ \circ & \mathsf{Matlab} & & \circ & \mathsf{C}{++} \end{array}$

Music-Related:

Vocal Foundation to Improve
Theory and Production of Song Arrangement

Mathematics:

Calculus I
Discrete Mathematics

Calculus II
Random Mathematics and Statistics

Linear Algebra I
Numerical Analysis and Algorithms

Artificial Intelligence:

Basis of Artificial Intelligence
Pattern Recognition and Deep Learning

Circuit & Control:

Principles of Electric Circuits
Theory of Automatic Control

Digital Electronics

Computer-Related:

Data Structures
Computer Networks and Applications

Principles and Systems of Computer

Others:

Signals and System Analysis
Principles and Systems of Computer

Projects

Controllable Sheet Music Generation

June 2021-Dec 2022

Advisor: Xin Jin & Duo Xu & Song-chun Zhu Beijing Institute for General Artificial Intelligence

- O Learned music psychology and emotion perception in music.
- O Learned the Generative Theory of Tonal Music and basic structure analysis of music.
- O Implementation of music And-or-Graph.
- O Data Labeling of figure in music, music structure division and music variation in phrases.
- O Implemented genetic algorithm for **music variation** in Python.

Tactile Music (Music Perception)

Oct 2022-Feb 2023

Advisor: Yun Wang & Zijin Li & Yingqing Xu the Future Laboratory, Tsinghua University

- O STM32 programming for linear motor tactile device.
- Designed experimental protocols
- O Analysis of experimental data relating to the relationship of fragrance and music

XAI Feb 2023-Present

Advisor: Jiwen Lu & Jie Zhou

Department of Automation, Tsinghua University

O Designed framework for baseline generation for attribution methods such as Integrated Gradients and RISE.

Music Information Retrieval-Chord Recognition

Jun 2023-Present

Advisor: Jian Wu DeepMusic

Modified neural network framework to achieve higher performance in ACR(automatic chord recognition) tasks.

Achievements

Tsinghua Arts and Culture Merit Scholarship

2021& 2022

 Received for students who have specialty in art and have made great contribution for cultural activities within the department.

Friends of Tsinghua-Weichai Power Scholarship

2022

O Received for excelling GPA throughout the school year.

Extracurriculars

Music Production Skills Learning

- O Learned basic music production skills such as music arrangement and mixing on my own.
- O Four songs have already been released on QQ music & The NetEase's cloud music, produced by Logic Pro X.
- Link:My musician page on The NetEase's Cloud Music
- O Link: My musician page on QQ Music