

YI SHI

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🌐 Billion's Homepage

🎓 EDUCATION

Central Conservatory of Music (CCOM), Beijing, China

2022 – 2025

Master of Arts , The Department of Music Artificial Intelligence and Music Information Technology / Music Artificial Intelligence and Music Information Technology

- Tutors: Prof. Feng Yu, Prof. Qionghai Dai (Tsinghua University, Department of Automation)
- Courses: Music Acoustics, Artificial Neural Network (Tsinghua University), etc.
- GPA: 4.0/4.0

North China University of Science and Technology, Tangshan, China

2018 – 2022

Bachelor of Engineering , College of Artificial Intelligence / Electronic Information Engineering

- Courses: Signals and Systems, Digital Image Processing, etc.
- GPA: 3.5/4.0

👥 PROJECTS

Dynamic Supplementary Heat System for Blast Furnace Slag

2020 – 2021

Leader

Brief Introduction: The Project of Intelligent Metallurgy.

- Identification of High-temperature Melt
- Dynamic replenishment of thermal energy
- Interactive Control System



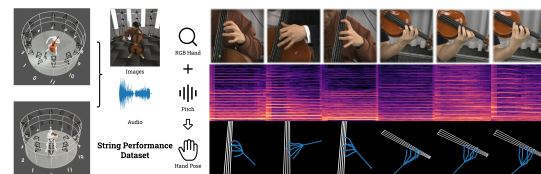
String Performance Dataset

2023 – 2024

Author Responsible for Tracking Instruments and Bows

Brief Introduction: The Project of Music Metaverse

- A Database for Strings
- Music Performance Analysis
- Motion Capture



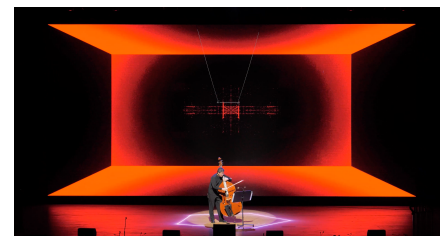
Before the Red

2024

Performer The Algorithm Supporter

Brief Introduction: Academic Electronic Music

- A Program in the “Future Concert” of the 2024 China-France International Music Festival
- Collect Data from Myo Armband and Train a Model of Gesture
- Communicate with Max/MSP and Exchange Data from Myo



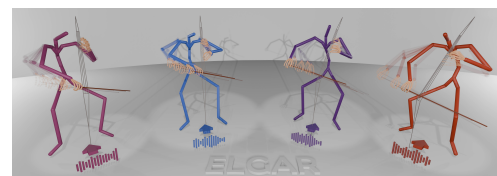
ELGAR: Expressive Cello Performance Motion Generation for Audio

2024–2025

Author Responsible for Data Preprocessing

Brief Introduction: The Project of Music Metaverse Rendition

- Fit **COCO-WholeBody** Format Data into **SMPL** Format Data
- Motion Generation for the Performances of Cello



AWARDS

- Academic Achievement

- Papers

- ★ Audio Matters Too! Enhancing Markerless Motion Capture with Audio Signals for String Performance Capture. Yitong Jin*, Zhiping Qiu*, **Yi Shi**, Shuangpeng Sun, Chongwu Wang, Donghao Pan, Jiachen Zhao, Zhenghao Liang, Yuan Wang, Xiaobing Li, Feng Yu, Tao Yu[†], Qionghai Dai[†] (ACM Transactions on Graphics (TOG), Volume 43, Issue 4) (Oral)
 - ★ ELGAR: Expressive Cello Performance Motion Generation for Audio. Zhiping Qiu, Yitong Jin, Yuan Wang, **Yi Shi**, Chongwu Wang, Chao Tan, Xiaobing Li, Feng Yu, Tao Yu[†], Qionghai Dai[†] (ACM SIGGRAPH 2025)

- Patents

- ★ A method for Target Recognition and Volume Estimation of Solid Particles in the Melt Pool of High Temperature. Jie Li, Xinghui Hao, **Yi Shi**, Aimin Yang, Weixing Liu, Yang Han (CN111402321A)

- Subject Competition

- ★ **China National Scholarship** once

- ★ **First Prize** in the 14th *iCAN* International Innovation and Entrepreneurship Competition China Finals, one of the top ten in China. 
 - ★ **First Prize** in the 8th *iPDM Cup Data Mining Challenge*. 
 - ★ **First Prize & The Most Investment Value Award** in the 8th *Discovery Cup National Internet Software Contest*.
 - ★ **Honorary Mention** in Digital Musics & Sound Art at *Prix Ars Electronica 2025*.  **ARS ELECTRONICA**

SKILLS

- Programming Languages: Python, C/C++, $\text{\LaTeX}$, Shell
- Software: Photoshop, Premiere, Solidworks
- Interest: Music, Board Games, Fishing...
- MBTI: INTP 

RESEARCH FIELDS

- Interdisciplinary
- Multimedia
- Music Technology