

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



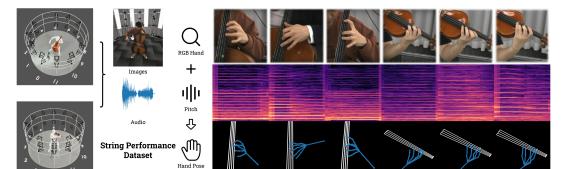
String Performance Dataset

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



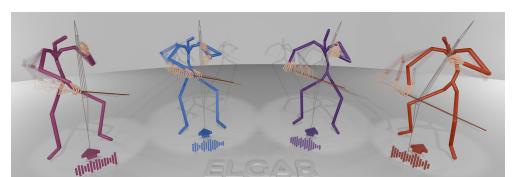
ELGAR: Expressive Cello Performance Motion Generation for Audio

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*. 

⚙ SKILLS

- Programming Languages: Python, C/C++, L^AT_EX, Shell
- Software: Photoshop, Premiere, Solidworks
- Interest: Music, Board Games, Fishing...
- MBTI: INTP 

► RESEARCH FIELDS

- Interdisciplinary
- Multimedia
- Music Technology