

# Lejun Min

Researcher, Artist

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## About me

Master's student at Stanford CCRMA specializing in music generation, audio signal processing, and human-computer interaction. Published at top venues including ICLR (Spotlight) and ISMIR.

Intermedia & sonic artist with various performances and installations. Passionate about bridging AI and creative expression through innovative music technologies.

## Technical Skills

### Research Areas

Music Generation  
Music Information Retrieval  
Representation Learning  
Multimodal Learning  
Digital Signal Processing  
Human-Computer Interaction

### Programming

Python C++ C Java Rust  
Verilog Lua Arduino WGLS  
Bash

### Machine Learning

PyTorch TensorFlow Accelerate  
Lightning

### Audio & Graphics

JUCE Chuck Reaper Pure Data  
Blender Adobe Premiere

### Development

Arch Linux Neovim Git Docker

## Languages

Mandarin Chinese   
English (TOEFL 112)   
French 

## Education

### Stanford University, CCRMA

2024 – Present

M.A. in Music, Science, and Technology (GPA 4.0/4.0)

Advisors: Prof. Marina Bosi, Prof. Takako Fujioka

CCRMA Flagship Project Award, Chiang Chen Overseas Graduate Fellowship

### Shanghai Jiao Tong University, Zhiyuan College

2019 – 2023

B.Eng. in Computer Science (Fellowship)

Member of **ACM Honor Class** – elite CS program for top 5% students

Top 1% Outstanding Bachelor's Thesis (41 out of 3873 graduates)

## Experience

### Smule Labs – Research Intern

Oct. 2025 – Present

Building music-text joint embedding addressing modality gap of contrastive learning.

Supervisor: Yongyi Zang

### Sony CSL Paris – Research Intern

June 2025 – Sept. 2025

Designed end-to-end mixing/mastering system using audio representation learning – pioneering study on automatic mixing with fully generative approach.

Supervisor: Dr. Stefan Lattner

### SoundPatrol & Stanford – Research Assistant

Feb. 2025 – May 2025

Trained singer representation model for deepfake detection – reduced EER by 10%, achieved 96% top-1 accuracy on SingFake dataset.

Advisor: Prof. John Thickstun, Prof. Walter De Brouwer

### Music X Lab, MBZUAI – Research Assistant

June 2022 – Dec. 2022, Sept. 2023 – Feb. 2024

Led development of hierarchical symbolic music generation (ICLR 2024) and polyphonic generation with diffusion models (ISMIR 2023).

Advisor: Prof. Gus Xia

## Publications

### Leveraging Rotational M/S Coding and ML in Stereo Audio Coding

IWSSPA 2025

L. Min, S. Chen, M. Bosi

### MuPT: A Generative Symbolic Music Pretrained Transformer

ICLR 2025

X. Qu, Y. Bai, ... L. Min, et al. [OpenReview] [Demo]

### Whole-song Hierarchical Generation Using Cascaded Diffusion Models

ICLR 2024 (Spotlight)

Z. Wang, L. Min, G. Xia [OpenReview] [Demo]

### Polyffusion: A Diffusion Model for Polyphonic Score Generation

ISMIR 2023

L. Min, J. Jiang, G. Xia, J. Zhao [Poster] [Demo]

## Selected Projects

### Programming

Scotty3D: Software rasterization, mesh editing, path tracing, animation (C++)  
Ray Tracer: Complete ray tracing engine in Rust  
RISC-V CPU: 5-pipelined RISCV32I with FPGA implementation (Verilog)  
Mx Compiler: Hand-made compiler surpassing -O1 optimization (Java)

### Art & Music

A Chan Conversation: Ambisonics performance with Gametrak  
Umbrella: Intermedia piece for Ambisonics audio & video exploring self and fear  
Sonic Skateboard: Arduino + ChucK musical instrument  
Kandinsky Sonified: Interactive audiovisual music sequencer creating Kandinsky-like abstract paintings  
Wanhai (Sunset Sea): Electronic music published under CEM Records