Yixiao Zhang

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Education

Queen Mary University of London	Sep 2020 – Present (Exp. 2025)
PhD in Artificial Intelligence and Music	*London, the United Kingdom*
University of Electronic Science and Technology of China	Sep 2015 – Jun 2019
BEng. in Computer Science	*Chengdu, Sichuan, China*

Research Experience

Centre for Digital Music, Queen Mary University of London — Sep, 2020 – Present

PhD topic: Machine Learning Methods for Artificial Musicality — *London, the United Kingdom*
- Supervisors: Prof. Simon Dixon, Dr. Mark Levy (Apple Inc.)
- Topic: ontrollable music generation with multimodal machine learning methods, such as large language models and diffusion models.

Music X Lab, New York University Shanghai — Sep, 2019 – Aug, 2020

Research Assistant — *Shanghai, China*
- Supervisor: Dr. Gus Xia
- Topic: Interpretable and controllable music generation via representation learning methods.

Internships

Sony Research — Oct, 2023 – Present

Research intern, Music Foundation Model Team — *Tokyo, Japan*
- Mentor: Yukara Ikemiya
- Topic: Interative and flexible music editing with diffusion models.

Yamaha Corporation — Jun, 2023 – Sep, 2023

Research Intern, Yamaha R&D Division — *Hamamatsu, Shizuoka, Japan*
- Mentor: Akira Maezawa
- Topic: Large language models for controllable music generation.

Microsoft Research Asia — Oct, 2018 – Jun, 2019

Research Intern, Machine Learning Group — *Beijing, China*
- Mentor: Dr. Weiqing Liu and Dr Xiao Yang
- Topic: Theoretical study of reinforcement learning algorithms.

Selected Publications

Loop Copilot: Conducting AI Ensembles for Music Generation and Iterative Editing	Preprint
Yixiao Zhang, Akira Maezawa, Gus Xia, Kazuhiko Yamamoto, Simon Dixon	*2023*
Interpreting Song Lyrics With An Audio-Informed Pre-Trained Language Model	
Yixiao Zhang, Junyan Jiang, Gus Xia, Simon Dixon	*ISMIR 2022*
COSMIC: A Conversational Interface for Human-AI Music Co-Creation	
Yixiao Zhang, Gus Xia, Mark Levy, Simon Dixon	*NIME 2021*
Learning Interpretable Representation for Controllable Polyphonic Music Generation	
Ziyu Wang, Dingsu Wang, Yixiao Zhang, Gus Xia	*ISMIR 2020*

Awards & Honors

AES technical committee member	
AES Technical Committee Semantic Audio Analysis	*2023 - Present*
Best paper award nomination	
at ISMIR 2022	*2022*
Brave new idea award nomination	
at ISMIR 2022	*2022*
Invited Reviewer	
for ICASSP 2024, ISMIR 2023, TISMIR journal	