Yixiao Zhang

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Education

Queen Mary University of London	Sep 2020 – Present (Exp. Nov 2024)
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, GPA: 3.74/4	*Chengdu, Sichuan, China*

Research Experience

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

PhD topic: Machine Learning Methods for Artificial Musicality
- Supervisors: Prof. Simon Dixon, Dr. Mark Levy (Apple Inc.)
- Topic: Controllable music generation with multimodal machine learning methods.

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

Research Assistant
- Supervisor: Dr. Gus Xia
- Topic: Interpretable and controllable music generation via representation learning methods.

Internships

Stability AI — April, 2024 – Present
London, UK
- Topic: Personalized text-to-music modelling
- Mentor: Dr. Jordi Pons and Dr. Julian Parker

Sony Research — Oct, 2023 – Apr 2024
Tokyo, Japan
- Topic: Zero-Shot Text-to-Music Editing via Diffusion Models.
- Mentor: Yukara Ikemiya

Yamaha Corporation — Jun, 2023 – Sep, 2023
Hamamatsu, Japan
- Topic: Large language models for controllable music generation and iterative editing.
- Mentor: Dr. Akira Maezawa

Microsoft Research Asia — Oct, 2018 – Jun, 2019
Beijing, China
- Topic: Theoretical study of reinforcement learning algorithms.
- Mentor: Dr. Weiqing Liu and Dr. Xiao Yang

Selected Publications

1. **MusicMagus: Zero-Shot Text-to-Music Editing via Diffusion Models** — IJCAI 2024
   Yixiao Zhang, Y. Ikemiya, G. Xia, N. Murata, M. Martínez, W. Liao, Y. Mitsufuji, S. Dixon
2. **Loop Copilot: Conducting AI Ensembles for Music Generation and Iterative Editing** — Preprint
   Yixiao Zhang, Akira Maezawa, Gus Xia, Kazuhiko Yamamoto, Simon Dixon
3. **Steerable Long-term Music Audio Generation and Editing via Content-based Controls** — IJCAI 2024
   Liwei Lin, Gus Xia, **Yixiao Zhang**, Junyan Jiang
4. **Content-based Controls For Music Large Language Modeling** — ISMIR 2023 LBD
   Liwei Lin, Gus Xia, Junyan Jiang, **Yixiao Zhang**
5. **Interpreting Song Lyrics With An Audio-Informed Pre-Trained Language Model** — ISMIR 2022
   Yixiao Zhang, Junyan Jiang, Gus Xia, Simon Dixon (*Best Paper Award Nomination*)
6. **COSMIC: A Conversational Interface for Human-AI Music Co-Creation** — NIME 2021
   Yixiao Zhang, Gus Xia, Mark Levy, Simon Dixon

Services

AES technical committee member — 2023 - Present
AES Technical Committee Semantic Audio Analysis

Reviewer
for ICASSP 2024, ISMIR 2023-2024, MM 2024, TISMIR journal