

XUEYAO ZHANG 张雪遥

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EDUCATION

School of Data Science, The Chinese University of Hong Kong, Shenzhen

Sept. 2022 –

- Ph.D. student in Data Science
- Areas of Study: Audio, Music, and Speech Generation
- Advisor: Professor Zhizheng Wu
- GPA: 3.70 / 4.00

Institute of Computing Technology, Chinese Academy of Sciences

Sept. 2019 – Jun. 2022

- Master in Computer Application Technology (being recommended for admission)
- Areas of Study: Fake News Detection, Fact Checking
- Advisor: Professor Juan Cao
- GPA: 3.79 / 4.00, Math-related courses: 91 / 100

School of Computer Science, Wuhan University

Sept. 2015 – Jun. 2019

- B.Eng. in Software Engineering
- GPA: 3.83 / 4.00, Ranking: 4 / 246 (Top 1.6%)
- Math-related courses: Advanced Mathematics (95), Linear Algebra (94), Discrete Mathematics (93)

PUBLICATIONS

1. Yicheng Gu, **Xueyao Zhang**, et al. An Investigation of Time-Frequency Representation Discriminators for High-Fidelity Vocoder. *Submitted to IEEE TASLP, 2024.*
2. **Xueyao Zhang***, Liumeng Xue*, Yicheng Gu*, Yuancheng Wang*, et al. Amphion: An Open-Source Audio, Music and Speech Generation Toolkit. *ArXiv preprint, 2024. (over 4,000 stars at GitHub)*
3. Liumeng Xue, Chaoren Wang, Mingxuan Wang, **Xueyao Zhang**, et al. SingVisio: Visual Analytics of Diffusion Model for Singing Voice Conversion. *Submitted to Computers & Graphics, 2024.*
4. Yicheng Gu, **Xueyao Zhang**, et al. Multi-Scale Sub-Band Constant-Q Transform Discriminator for High-Fidelity Vocoder. *ICASSP 2024*
5. **Xueyao Zhang**, et al. Leveraging Content-based Features from Multiple Acoustic Models for Singing Voice Conversion. *Machine Learning for Audio Workshop at NeuIPS 2023.*
6. **Xueyao Zhang**, et al. Structure-Enhanced Pop Music Generation via Harmony-Aware Learning. *ACM MM 2022.*
7. Qiang Sheng, Juan Cao, **Xueyao Zhang**, et al. Zoom Out and Observe: News Environment Perception for Fake News Detection. *ACL 2022.*
8. Qiang Sheng*, **Xueyao Zhang***, et al. Integrating Pattern- and Fact-based Fake News Detection via Model Preference Learning. *CIKM 2021.*
9. Qiang Sheng, Juan Cao, **Xueyao Zhang**, et al. Article Reranking by Memory-Enhanced Key Sentence Matching for Detecting Previously Fact-Checked Claims. *ACL 2021.*
10. **Xueyao Zhang**, et al. Mining Dual Emotion for Fake News Detection. *WWW 2021. (over 300 citations)*

(*: Equal Contribution.)

INTERNSHIPS

Meta Platforms, Inc

May 2024 – Sept 2024

Research Scientist Intern, GenAI, California, USA

ACADEMIC SERVICES

Reviewer

- Conferences: ACL Rolling Review, ACM CSCW 2021, ACM MM 2023 / 2024, EMNLP 2021, ICMC 2023, ICASSP 2023 (**valuable reviewer**) / 2024, NCMMSC 2023 / 2024
- Journals: EURASIP Journal on Audio, Speech, and Music Processing, IEEE Transactions on Audio, Speech and Language Processing (TASLP), IEEE Transactions on Computational Social Systems (TCSS), Information Processing and Management (IP&M), Journal of Chinese Information Processing (中文信息学报)

Teaching Assistant

- Fall 2017, Object-Oriented Programming (JAVA), Wuhan University
- Fall 2022, CSC3100 Data Structures, CUHK-Shenzhen
- Spring 2023, CSC3160/MDS6002 Fundamentals of Speech and Language Processing, CUHK-Shenzhen, Best Teaching Assistant.
- Fall 2023, CSC4130 Introduction to Human-Computer Interaction, CUHK-Shenzhen
- Spring 2024, CSC4050, Computing Capstone, CUHK-Shenzhen

HONORS AND AWARDS

1. Tencent Rhino-Bird Talent Program 腾讯犀牛鸟精英人才计划 (**Top 50+ of China, 2023**)
2. National Graduate Scholarship, Ministry of Education of China 研究生国家奖学金 (Top 0.2%, 2021)
3. National Undergraduate Scholarship, Ministry of Education of China 本科生国家奖学金 (Top 0.2%, 2016)
4. Third place at Campus Singer Competition, University of Chinese Academy of Sciences 中国科学院大学校园歌手大赛季军 (**Top 3, 2020**)
5. Outstanding Graduate, University of Chinese Academy of Sciences 中国科学院大学优秀毕业生 (Top 5%, 2022)
6. Outstanding Graduate, Beijing Municipal Education Commission 北京市优秀毕业生 (Top 5%, 2022)
7. Excellent Bachelor Thesis, Wuhan University 武汉大学优秀毕业论文 (Top 5%, 2019)
8. First price in Chinese High School Mathematics League 全国高中数学联赛一等奖 (**Top 50 in Henan, 2014**)
9. Merit Student, University of Chinese Academy of Sciences 中国科学院大学三好学生 (2020; 2021; 2022)
10. Merit Student and Outstanding Student Leaders, Wuhan University 武汉大学三好学生、优秀班干部 (2016; 2017; 2018)

MUSICAL ABILITIES

- Familiar with the basic music theory.
- Familiar with the common musical genres.
- Proficient in playing pop keyboard.
- Proficient in pop singing and familiar with Bel canto.

PROGRAMMING SKILLS

- Programming Languages: proficient in Python, familiar with Java, and know about C++.
- Deep Learning Frameworks: proficient in PyTorch and Keras.