

# 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: Automatic Music Creation, especially on Singing Voice Conversion
- Advisor: Professor [Zhizheng Wu](#)

### Institute of Computing Technology, Chinese Academy of Sciences

Sept. 2019 – Jun. 2022

- Master in Computer Application Technology (being recommended for admission)
- Areas of Study: Computational Social Science, especially on Fake News Detection
- 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. **Xueyao Zhang**, Jinchao Zhang, Yao Qiu, Li Wang, Jie Zhou. [\[PDF\]](#) [\[Code\]](#) [\[Slides\]](#) [\[Demo\]](#)  
Structure-Enhanced Pop Music Generation via Harmony-Aware Learning. *Proceedings of the 30th ACM International Conference on Multimedia (ACM MM 2022)*.
2. **Xueyao Zhang**, Juan Cao, Xirong Li, Qiang Sheng, Lei Zhong, Kai Shu. [\[PDF\]](#) [\[Code\]](#) [\[Slides\]](#) [\[Video\]](#)  
Mining Dual Emotion for Fake News Detection. *Proceedings of the 30th Web Conference (WWW 2021)*.
3. Qiang Sheng\*, **Xueyao Zhang\***, Juan Cao, Lei Zhong. (\*: Equal Contribution) [\[PDF\]](#) [\[Code\]](#) [\[Blog\]](#)  
Integrating Pattern- and Fact-based Fake News Detection via Model Preference Learning. *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*.
4. Qiang Sheng, Juan Cao, **Xueyao Zhang**, Xirong Li, Lei Zhong. [\[PDF\]](#) [\[Code\]](#) [\[Blog\]](#)  
Article Reranking by Memory-enhanced Key Sentence Matching for Detecting Previously Fact-checked Claims. *Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)*
5. Qiang Sheng, Juan Cao, **Xueyao Zhang**, Rundong Li, Danding Wang, Yongchun Zhu. [\[PDF\]](#) [\[Code\]](#) [\[Blog\]](#)  
Zoom Out and Observe: News Environment Perception for Fake News Detection. *Proceedings of the Joint Conference of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)*.

## INTERNSHIPS

### 👤 WeChat, Tencent

Apr. 2021 – Feb. 2022

Research Intern, Pattern Recognition Center of Wechat AI, Beijing, China

- My research topic is *symbolic music generation*. Besides, I supply the technical support of musicology knowledge (including music theory) for our team.
- In May 2021, I gave a talk on music, [How to create a pop song? \(一首流行歌是如何创作的\)](#)
- In Jan 2022, I participated to release the theme song of WeChat Open Class 2022 as a co-producer, [Ru Wei \(入微\)](#), which was composed by AI and sung by humans.

## SERVICES

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### Reviewer

- Conferences: ICASSP 2023, ACL Rolling Review, ACM MM 2022, EMNLP 2021, ACM CSCW 2021
- Journals: Information Processing and Management (IP&M), EURASIP Journal on Audio, Speech, and Music Processing, 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-SZ
- Spring 2023, CSC3160/MDS6002 [Fundamentals of Speech and Language Processing](#), CUHK-SZ

## HONORS AND AWARDS

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1. National Graduate Scholarship, Ministry of Education of China 研究生国家奖学金 (Top 0.2%, 2021)
2. National Undergraduate Scholarship, Ministry of Education of China 本科生国家奖学金 (Top 0.2%, 2016)
3. 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)
4. Outstanding Graduate, University of Chinese Academy of Sciences 中国科学院大学优秀毕业生 (Top 5%, 2022)
5. Outstanding Graduate, Beijing Municipal Education Commission 北京市优秀毕业生 (Top 5%, 2022)
6. Excellent Bachelor Thesis, Wuhan University 武汉大学优秀毕业论文 (Top 5%, 2019)
7. First price in Chinese High School Mathematics League 全国高中数学联赛一等奖 (Top 50 in Henan Province, 2014)
8. Merit Student, University of Chinese Academy of Sciences 中国科学院大学三好学生 (2020; 2021; 2022)
9. 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

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- 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

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