



XUEYAO ZHANG (张雪遥)

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🎓 Google Scholar

EDUCATION

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

Sept. 2022 –

- Ph.D. student in Data Science
- Areas of Study (expected): Speech Synthesis, especially on Singing Voice Synthesis / 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)

REPRESENTATIVE PUBLICATIONS

Topic: Automatic Music Creation

1. *Structure-Enhanced Pop Music Generation via Harmony-Aware Learning*

Xueyao Zhang, Jinchao Zhang, Yao Qiu, Li Wang, Jie Zhou. Proceedings of the 30th ACM International Conference on Multimedia (ACM MM 2022) [\[Preprint\]](#) [\[Demo\]](#)

TL;DR: We propose to learn harmony for generating form- and texture- enhanced pop music.

Topic: Fake News Detection

1. *Mining Dual Emotion for Fake News Detection*

Xueyao Zhang, Juan Cao, Xirong Li, Qiang Sheng, Lei Zhong, Kai Shu. Proceedings of the 30th Web Conference (WWW 2021) [\[PDF\]](#) [\[Code\]](#) [\[Slides\]](#) [\[Video\]](#) [\[Chinese Video\]](#)

TL;DR: We leverage both publisher emotion and social emotion for fake news detection.

2. *Integrating Pattern- and Fact-based Fake News Detection via Model Preference Learning*

Qiang Sheng*, Xueyao Zhang*, Juan Cao, Lei Zhong. (*: Equal Contribution) Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021) [\[PDF\]](#) [\[Poster\]](#) [\[Code\]](#) [\[Chinese Blog\]](#)

TL;DR: We propose a graph-based model preference learning framework to separately handle the pattern and fact indicators in fake news detection.

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.

HONORS AND AWARDS

1. National Graduate Scholarship, Ministry of Education of China (Top 0.2%, 2021)
2. National Undergraduate Scholarship, Ministry of Education of China (Top 0.2%, 2016)
3. Third place at Campus Singer Competition, University of Chinese Academy of Sciences (Top 3, 2020)
4. Outstanding Graduate, University of Chinese Academy of Sciences (Top 5%, 2022)
5. Excellent Bachelor Thesis, Wuhan University (Top 5%, 2019)
6. First price in Chinese High School Mathematics League (Top 50 in Henan Province, 2014)
7. Merit Student, University of Chinese Academy of Sciences (2020; 2021; 2022)
8. Merit Student and Outstanding Student Leaders, Wuhan University (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.