XIANGYU SHI

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EDUCATION

KTH Royal Institute of Technology *August 2023 - June 2025*
Graduate, Machine Learning

Harbin Institute of Technology *August 2019 - June 2023*
Undergraduate, Computer Science Overall Score: 91.95/100

INTERNSHIPS

Chinese University of Hong Kong, Shenzhen *Speech and Language Lab* Shenzhen, China
Research Assistant (Adviser: Prof. Zhizheng Wu) *April 2023-Now*

- Working on the improvement of audio anti-spoofing systems.

Tsinghua University *Department of Electronic Engineering* Beijing, China
Baidu Research *Business Intelligence Lab* *June 2022-October 2022*
Research Intern (Adviser: Prof. Quanming Yao and Dr. Yaqing Wang)

- Investigated recent academic research on few-shot learning and few-shot link prediction. Engaging in the improvement of few-shot link prediction methods.

Harbin Institute of Technology *Massive Data Computing Center* Harbin, China
Research Assistant (Adviser: Prof. Hongzhi Wang) *January 2021-May 2022*

- Assisted with research on applications of AutoML, including an optimizable AutoML system, and AutoML methods applied to model compression, federated learning and click-through rate prediction.

PREPRINTS AND PUBLICATONS

1.**Xiangyu Shi**, Yuhao Luo, Li Wang, Zuoou Li, hao Li, Lei Wang, Zhizheng Wu. A Comparison of Data Augmentation for Voice Replay Attack Detection *Submitted to ASRU2023*

- We evaluated many kinds of data augmentation methods for voice replay attack detection. We achieved state-of-the-art in this field.

2.Chunnan Wang, Chen Liang, Hongzhi Wang, **Xiangyu Shi**. Automated Click-Through Rate Prediction Model Integration *Submitted to TKDD*

3.Chunnan Wang, **Xiangyu Shi**, Hongzhi Wang. Fair Federated Learning with Multi-Objective HPO *Submitted to TKDD*

- We proposed to improve the process of aggregating in federated learning by an AutoML technique.

4.Chunnan Wang, Hongzhi Wang, **Xiangyu Shi**. AutoMC: Automated Model Compression based on Knowledge Graph and Progressive search strategy [arxiv] *Submitted to ICDE2024*

- We proposed an automatic tool for model compression with a progressive search strategy.

5.Chunnan Wang, Hongzhi Wang, Xu Bo, Xintong Song, **Xiangyu Shi**, Yuhao Bao. CO-AutoML: An Optimizable Automated Machine Learning System [link] *Accepted by DASFAA2022 Demo Track*

- We developed an optimizable AutoML system, which can continuously optimize the search space.

HONORS AND FELLOWSHIPS

Outstanding Students of 2019∼2020 *December 2020*
Second Prize of People's Scholarship, Top %7 *Septemper 2020, Septemper 2021*
International Informatics Olympiad China Team Selection Competition (CTSC), Third Prize *May 2018*
National Olympiad in Informatics in Provinces (NOIP), First Award, Top 30 *November 2017*