XIANGYU SHI

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EDUCATION

KTH Royal Institute of Technology　　　　　　　　　　　　　　*August 2023 - June 2025*
Master of Machine Learning candidate

Harbin Institute of Technology　　　　　　　　　　　　　　　*August 2019 - June 2023*
Bachelor of Computer Science and Technology　　　　　　　　　　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-October 2023*

- Worked 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. Audio Compression-assisted Feature Extraction for Voice Replay Attack Detection [arxiv]

   - 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

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*