

XIANGYU SHI

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EDUCATION

KTH Royal Institute of Technology Master of Machine Learning candidate	August 2023 - June 2025
Harbin Institute of Technology Bachelor of Computer Science and Technology	August 2019 - June 2023 Overall Score: 91.95/100

INTERNSHIPS

KTH Royal Institute of Technology <i>Data Systems Lab</i> Research Engineer	Stockholm, Sweden November 2023-now
<ul style="list-style-type: none"> Responsible for the development of graph neural network (GNN)-based model for Orb DB project. Apply and modify the existing GNN models, and Query2Box, to make the model inductive and scalable. 	
Chinese University of Hong Kong, Shenzhen <i>Speech and Language Lab</i> Research Assistant (Adviser: Prof. Zhizheng Wu)	Shenzhen, China April 2023-October 2023
<ul style="list-style-type: none"> Investigated the effectiveness of one-class classification, and data augmentation methods in voice replay attack detection. Achieved state-of-the-art performance in ASVspoof 2021 dataset. 	
Harbin Institute of Technology <i>Massive Data Computing Center</i> Research Assistant (Adviser: Prof. Hongzhi Wang)	Harbin, China January 2021-May 2022
<ul style="list-style-type: none"> 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 PUBLICATIONS

- Xiangyu Shi**, Yuhao Luo, Li Wang, Zuou 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.
- Chunnan Wang, Chen Liang, Hongzhi Wang, **Xiangyu Shi**. Automated Click-Through Rate Prediction Model Integration *Submitted to TKDD*
- 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.
- Chunnan Wang, Hongzhi Wang, **Xiangyu Shi**. AutoMC: Automated Model Compression based on Knowledge Graph and Progressive search strategy [[arxiv](#)] *Accepted by ICDE2024*
 - We proposed an automatic tool for model compression with a progressive search strategy.
- 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