

XIANGYU SHI

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EDUCATION

Harbin Institute of Technology

August 2019 - Present

Undergraduate, Computer Science

Overall Score: 91.95/100

Selected Courses: Pattern Recognition and Deep Learning (96.7) Calculus B (92) Linear Algebra and Analytic Geometry (95) College Physics B (94.5) Probability and Statistics (96) Formal Languages and Automata (97.6) Data Structures and Algorithms (92) Software Construction (95.2)

INTERNSHIPS

Tsinghua University Department of Electronic Engineering

Beijing, China

Baidu Research Business Intelligence Lab

June 2022-Present

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 easy-to-use optimizable AutoML system, and AutoML methods applied to model compression, federated learning and click-through rate prediction. The results can be found in the publication section.

PREPRINTS AND PUBLICATIONS

- 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.
 - I was responsible for the development of system interface.
- Chunnan Wang, Hongzhi Wang, **Xiangyu Shi**. AutoMC: Automated Model Compression based on Knowledge Graph and Progressive search strategy [\[arxiv\]](#) *Submitted to TKDE*
 - We proposed an automatic tool for model compression with a progressive search strategy.
 - I was responsible for the code and the experiments.
- 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.
 - I was responsible for the code and the full paper writing.
- Chunnan Wang, Chen Liang, Hongzhi Wang, **Xiangyu Shi**. Automated Click-Through Rate Prediction Model Integration *Submitted to TKDD*
 - We proposed a automatic tool that can efficiently generate the best CTR model integration scheme.
 - I was responsible for the paper writing of related works.

HONORS AND FELLOWSHIPS

National Olympiad in Informatics in Provinces (NOIP), First Award, Top 30

November 2017

International Informatics Olympiad China Team Selection Competition (CTSC), Third Prize

May 2018

Second Prize of People's Scholarship, Top %7

September 2020, September 2021

Outstanding Students of 2019~2020

December 2020

University Innovation Training Program, Second Prize

August 2020