

Yuxin (Shirley) Li

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PERSONAL SUMMARY

A self-motivated rising junior computer science student devoted to machine learning research.

EDUCATION BACKGROUND

Hong Kong University of Science and Technology

Sep 2022-Present

Bachelor of Engineering in Computer Science

SKILLS & CAPABILITIES

Technical skills: Python, C++, Java, RISC-V, LaTeX.

Courses taken:

- MATH: Calculus, Multivariable Calculus, Linear Algebra, Applied Statistics, Probability, Discrete Mathematical Tools for Computer Science.
- COMP: Programming with C++, Object-Oriented Programming and Data Structures, Design and Analysis of Algorithms, Computer Architecture.
- Others: Fundamentals of Actuarial Mathematics, General Physics with Calculus, Introduction to Electro-Robot Design, Introduction of Industrial Engineering and Decision Analytics.

RESEARCH PROJECTS

Explore Selective Disclosure Bias with Networks of LLM-based Agents

USA

2024

Research Assistant (Supervised by Prof. Yongren Shi, The University of Iowa)

- Developed a simulation to study how selective disclosure bias affects opinion segregation.
- Modelled twenty agents with diverse opinion interaction based on perceived similarity.
- Demonstrated that interactions with acquaintances or strangers can facilitate the spread of unpopular norms, whereas interactions with close friends or family may hinder information cascades.

Knowledge Discovery over Machine Learning

Hong Kong

2023

Undergraduate Research Assistant (Supervised by Prof. Minhao Cheng, The Pennsylvania State University)

- Summarised fundamental knowledge for constructing a linear logistic regression model.
- Conducted in-depth analysis to translate mathematical concepts and theorems into algorithms and machine learning models.

Albumen Thermodynamic Property in Different Solvents by Differential Scanning Calorimetry

Chengdu

2021

- Designed the experiments to investigate the thermodynamic properties of albumen in various solvents using differential scanning calorimetry.
- In charge of data processing, report writing, and poster presentation.

Comparative Studies on the Vitamin C Contents in Fresh Fruits & Sold Orange Juice

2020

- Designed and conducted the experiments to study the Vitamin C contents in jujube, pear, lemon, orange, and several types of orange juice.
- Honored with Research Excellence Award of Chengdu No.7 High School.

The 3D Model Building and Conservation Studies of Anlan Bridge

2018-2019

- Measured the dimensions of Anlan Bridge of Dujiangyan and built a 3D model of the Bridge using acquired data.
- In charge of the research journal, the final report, and oral defense.

OTHER ITEMS

- Participated a three-week workshop: Fundamentals of Deep Learning organised by Nvidia in 2024 Spring.
- A member of the subcommittee of China Entrepreneur Network and led to organise a negotiation game.
- A member of the subcommittee of Mainland Students and Scholars Society, UG Section and led to hold a dancing party.
- Level 13th in Latin Dance (the highest level).
- Peer Mentor in Peer-Mentoring Program organised by Mainland Students and Scholars Society, UG Section.