Yuxin (Shirley) Li

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EDUCATION BACKGROUND

The Hong Kong University of Science and Technology   *2022-2026 (expected)*

Bachelor of Engineering in Computer Science

University of California, Berkeley   *2023*

Summer Session – CS61BL Data Structures & Programming Methodology

SKILLS & CAPABILITIES

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

Ongoing Course: Machine Learning, Large-Scale Machine Learning for Foundation Models, Data Visualization.

Courses taken:

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

RESEARCH PROJECTS

MA-LoT: Multi-Agent Lean-based Long Chain-of-Thought Reasoning enhances Formal Theorem Proving   2025

Co-First Author (Supervised by Professor Tong Zhang, University of Illinois Urbana-Champaign)

• Developed the first multi-agent framework for Lean4 theorem proving that balance high-level NL reasoning and FL verification in Long CoT.

• Implemented the significant parts of the codebase and served as one of the primary manuscript authors.

Explore Selective Disclosure Bias with Networks of LLM-based Agents   2024

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

• Developed a simulation to study how selective disclosure bias affects opinion segregation.

• 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   2023

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

• 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   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.

OTHER ITEMS

• Practical experience with deep learning, certified by Nvidia Deep Learning Institute, 2024.

• Peer mentor in Peer-Mentoring Program, Mainland Students and Scholars Society (undergrad), The Hong Kong University of Science and Technology, 2023-present.

• China Entrepreneur Network, The Hong Kong University of Science and Technology, 2022.

• Mainland Students and Scholars Society (undergrad), The Hong Kong University of Science and Technology, 2022.