Jingcheng LIANG

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EDUCATION

University of Minnesota Twin Cities, College of Liberal Arts Sept 2024 - Present
Bachelor of Arts in Computer Science

South China Normal University, School of Economics & Management Sept 2022 - Jul 2024
Bachelor of Arts in Economics, Overall GPA: 3.76/5.0, Sophomore GPA: 3.86/5.0 (Top 11%)
Courses (Grade): *Advance Mathematics (III-2) (98/100), Statistics (93/100), Probability and Statistics (87/100), The fundament and practice of Artificial Intelligence (90/100), Intermediate Microeconomics (90/100), Principles of Accounting (91/100), et al.*

SKILLS

Languages: English (Fluent), Chinese (Native), Cantonese (Native)
Programming Languages & Software: Python, R, Java, Stata, SPSS, Microsoft Office

RESEARCH EXPERIENCES

Association Between Chemical Exposure and Human Health Oct 2023- Feb 2024
Research Assistant, Advisor: Prof. Wenxiu Ge, Department of Mathematics

- Collected chemical blood concentration data and human health data from the NHANES database.
- Performed data preprocessing (e.g. screened out missing data and outliers，ln-transformed right-skewed data, et al.) using R.
- Fitted three multivariate models (linear regression, WQS regression and BKMR model) using R to measure the effects of chemical exposure on human health. Revealed the significant effects of heavy metals in triggering human diseases.

Pricing and Replenishment Strategies for Vegetable Commodities Sept 2023 - Oct 2023
Project Member in 2024 China Undergraduate Mathematical Contest in Modelling (CUMCM)

- Visualized the distribution pattern of the sales volume of each type of vegetables through line graphs, pie charts, percentage stacked bar charts, et al, using R (ggplot2 package).
- Utilized AMIRA model (time-series model) combined with parameter optimization to predict sales volumes of vegetables.
- Calculated the optimal replenishment amount based on forecasted sales, historical wastage and historical pricing. Developed a Benefit-maximization plan for superstores.

Empirical Study of Artificial Intelligence for Sustainable GDP Development Apr 2024- Jul 2024
Project Leader, Advisor: Prof. Xiaodong Lai, Department of Economics

- Employed the method of multiple linear regression with Stata to test the relationship between the level of regional artificial intelligence development and the sustainable development of GDP.
- Revealed the mediating role of industrial upgrading and industrial coordination in AI's drive for sustainable GDP development using the industrial structure rationalization index (Thiel index).
- Provided a theoretical basis for China's digital transformation with the aim of a high-quality development.

LEADERSHIP AND ACTIVITIES

Science and Technology Research Department, Administration Office of University Sept 2022- Jul 2024
Vice President

- Managed the "Climbing Program" Special Funds, which is used to enhance students' scientific and technological innovation.
- Organized students to participate in university student innovation and technology competitions, hosted several varsity competitions and large conferences with over 100 participants.
- Organized more than 500 project materials and served as a bridge between the committee teachers and project authors.

Class of 2027, Department of Financial Management Sept 2023- Jul 2024
Class Assistant

- Managed classroom activities and organized various lectures, successfully improving class's harmonious atmosphere.
- Enhanced student relationships by paying attention to students' psychological health and actively answering students' doubts.

HONORS AND AWARDS

2024 China Undergraduate Mathematical Contest in Modelling (CUMCM) in Guangdong, 2nd Prize 2024
College of Liberal Arts Dean's Scholar (about 100 students per year) 2024