

Yucong (Nancy) Li

li5341@purdue.edu | (720) 761 3564 | <https://www.linkedin.com/in/yuli7852/>

EDUCATION

Purdue University, Mitch Daniels School of Business

Ph.D. in Economics (in progress)

West Lafayette, IN

Aug 2024-Expected May 2029

- **Primary Fields:** Labor Economics, Urban Economics; **Secondary Field:** Industrial Organization
- **Advisor:** Ben Zou

University of California, Berkeley

Master of Analytics Degree, Analytics

Berkeley, CA

Jul 2022-Aug 2023

- Courses: Analysis and Design of Databases (SQL), Applied Data Science with Venture Applications (Python), Descriptive and Predictive Data Mining, Economics of Supply Chains, Healthcare Analysis, Financial Information Analysis, Optimization Analysis, Risk Modeling, Simulation, and Data Analysis, Supply Chain and Logistics Management

University of Colorado, Boulder (CU)

Bachelor of Arts/Actuarial Sciences & Quantitative Finance Certificate

Boulder, CO

Aug 2019-May 2022

- Double Major: Cum Laude in Economics; Mathematics (Probability & Statistics Track)
- Honors & Awards: Dean's List, Fall 2019, Spring 2020, Fall 2020
- Courses: Corporate Finance, Linear Algebra, Discrete Mathematics, Math Analysis in Business, Ordinary Differential Equations, Probability Theory, Econometrics, Intro to Programming (Java), Statistics with Computer Applications (R)

SKILLS

- **Programming & Software:** Python (NumPy, SciPy, SciKit, Pandas, Matplotlib), R, AMPL, SQL, Java, Stata, Excel, Matlab
- **Other:** Data analysis, Machine learning, High-dimensional regression; Clustering/classification; Time series analysis; Project management; Marketing; Customer service
- **Languages:** English; Chinese; Japanese

RESEARCH & PROJECTS

Project: Forecasting Video Game Success

Nov 2022 -Dec 2022

- Used **Python** to analyze datasets to identify potential relationships between variables with feature engineering
- Built five models to evaluate game success and found Gradient Boosting to be the most appropriate
- Assisted game developers with game design optimization and attracted more players using game success forecasts

Project: Hotel Recommendation

Nov 2022 -Dec 2022

- Situation: An online travel shopping company want to make better hotel recommendations to customers for Christmas
- Task: Constructed a HOTEL database with qualitative data collected from 50 hotels in five categories; analyzed employee-to-room ratio, occupancy, and booking rates to help customers make informed decisions about hotels (**SQL**)

Integrating Use of Statistical Software into Undergraduate Political Methodology Courses

Sep 2020-May 2022

- Worked as a research assistant to Professors David Brown, Andrew Philips, and Katherine Bryant
- Collected 40 syllabi of methodology courses for political science majors of 35 universities and colleges in the Midwest, sent emails to instructors to fill out pre-designed questionnaires, and proposed new methods to improve the courses
- Extracted relevant data; applied **Stata**, **RStudio**, and **Excel** to analyze data with the aim of identifying correlations between ethnic diversity, economic diversity, and school regions; assisted in building a website that is helpful to students

WORK EXPERIENCE

Eye and Vision Central California Inc, Manager Assistant

Jun 2022-Aug 2022

- Discovered and repaired loopholes in the customer system; maintained and organized case files for 30,000 patients
- Completed patient transactions such as verifying insurance coverage, recording insurance accounts, and settling medical expenses

Datong Securities, Quantitative Analyst

Jul 2021-Aug 2021

- Calculated and analyzed portfolio performance indicators, including return, volatility, Sharpe Ratio, VaR and CVaR
- Built statistical models using **Python** in order to identify quantitative factors in portfolio allocations and make investment recommendations for clients

Shanxi Lianhua Lanyuan Retail Warehouse Club, CEO Assistant

Feb 2021-May 2021

- Coordinated with departments to collect key metrics, analyze data, identify problems, and propose strategies
- Assisted with the implementation and promotion of a new warehouse management system in the city

PUBLICATIONS

Li, Yucong. *The Impact of Childbearing On the Gender Income Gap: summary*, Arts and Sciences Honors Program, April 2022, https://scholar.colorado.edu/concern/undergraduate_honors_theses/st74cr871

Li, Yucong. *Bubble mystery of innovation and exploration*, The 32nd National Youth Science and Technology Innovation Competition (Chinese National), July 2017