

CHARLOTTE (JIALE) ZHOU

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SKILLS & INTERESTS

- **Interests:** Economic Consulting & Data Science, Information Technology, Corporate Behavior, Labor Economics
- **Skills:** Quantitative & Computational Methods (Regressions, Causal Inference, Time Series Analysis), Data Scraping, Data Cleaning, Large-Scale Data, Cloud Computing (AWS, GEE), Machine Learning, Research & Survey Design
- **Software:** Python (Pandas, NumPy, SciPy), Stata, R, MATLAB, EViews, Microsoft 365 (Excel, Word, PowerPoint)
- **Select Coursework:** Large-Scale Computing, Computational Modeling, Causal Inference, Machine Learning and Digital Behavior, Financial Economics, Labor Economics, Behavioral Economics, Quantitative Methods for Policy Evaluation

EDUCATION

University of Chicago | Chicago, IL

Master of Arts, Computational Social Science; Concentration: Economics; GPA: 3.8/4.0, Jun. 2025

The Chinese University of Hong Kong | Shenzhen, China

Bachelor of Applied Economics; GPA: 3.7/4.0 (Top 10%), Jun. 2023

Copenhagen Business School | Copenhagen, Denmark

Exchange Program; GPA: 10/12, Sep. 2021 – Jan. 2022

PROFESSIONAL EXPERIENCE

Research Assistant, Haas School of Business, University of California, Berkeley, Jun. 2024 – Aug. 2024

- Conducted literature review on regulatory practices related to workplace safety and drafted research proposal on economic impact of California's AB 701 law on injury rates in warehouse industry
- Collected, cleaned, and organized OSHA Injury Tracking Application data and violation records, structuring them into a panel dataset for each establishment using Python; Performed event study to analyze the impact of law on injury rates

Research Assistant, Booth Business School, University of Chicago, Dec. 2023 – May 2024

- Collected, verified, and cleaned data on gas flaring activities and asset transactions for oil companies operating in Africa, ensuring accuracy of corporate headquarters and stock exchange listings
- Conducted robustness analysis using Stata to validate findings; Drafted sections of online appendix including methodology details and supplementary analyses, contributing to comprehensive documentation of the research
- Leveraged Midway cloud computing platform to process and clean large-scale EDGAR logging data; Performed data visualization and trend analysis using Python to identify weekly and form-specific request patterns

Consultant Intern, Regional Development Strategies, State High-Tech Industrial Innovation Center, Jul. 2023 – Aug. 2023

- Designed survey questionnaires to investigate discipline setting, talent flow, and use of funding in Shenzhen universities; Conducted quantitative and qualitative analyses on collected questionnaires
- Researched government funding approval processes for higher education projects, conducted national and international comparative studies, and drafted reports with recommendations

Analyst Intern, Investment Bank Department, China CITIC Securities, Apr. 2022 – Jun. 2022

- Conducted in-depth quantitative research on logistics technology companies; Performed competitor analysis and market size analysis; Produced 8-page analysis report of recommended companies for IPO team
- Conducted IPO due diligence and filing preparation for real estate company; Verified relevant financial information and compiled the drafts; Assisted in writing public offering prospectus report

RECENT PROJECTS

Leveraging Satellite Data and Cloud-Based Machine Learning for Mining Detection in Ghana, Mar. 2024 – Jul. 2024

- Leveraged AWS cloud computing to handle large-scale datasets from sources like Google Earth and Landsat, utilizing PySpark for data processing, feature engineering, and visualization
- Applied machine learning techniques, including Random Forests and Convolutional Neural Networks, to analyze multimodal data sources such as geospatial features and satellite imagery, improving the prediction of mining activities
- Conducted time series analysis of mining locations using Google Earth Engine; Performed Granger causality tests to examine the relationship between mining activities and gold price

Sentiment Analysis of ESG Disclosures and Firms' Financial Performance, Jan. 2024 – Feb. 2024

- Leveraged Python for web scraping to extract data regarding companies' ESG disclosures from SEC filings, facilitating efficient analysis of textual information
- Applied LM dictionary to conduct sentiment analysis on public companies' ESG disclosure through Python, examining relationship between sentiment words in ESG reports and financial performance of public companies

The Anti-Domestic Violence Law and the Life Satisfaction of Chinese Married Women, Nov. 2022 – Dec. 2022

- Collected/cleaned data on demographic characteristics of Chinese women from China Family Panel Studies (CFPS) dataset
- Evaluated effectiveness of Anti-Domestic Violence Law on improving life satisfaction of Chinese married women with DID estimation via Stata; Conducted validity and robustness checks to confirm results

TEACHING EXPERIENCE

Teaching Assistant – Computational Math Camp, Social Science Division, UChicago, Summer 2024

Teaching Assistant – Introduction to Econometrics, School of Management & Economics, CUHKSZ, Winter 2022