

Hoi-Ching (Hazel) Chui

Phone: (312) 774-6313 | Email: hoicc112@gmail.com | [GitHub](#)

EDUCATION

University of Chicago, Chicago, IL

Sep. 2021 - Jun. 2023

MA in Computational Social Science (STEM) (GPA: 3.96/4.00)

- **Relevant Coursework:** Computer Science with Social Science Applications I & II, Computational Modeling, Intermediate Regression & Data Science, Quantitative Analysis, Machine Learning, Large-Scale Computing for the Social Sciences
- **Leadership experience:** Organized a roundtable and led a discussion at the 2022 American Sociological Association Conference; Served as a **Teaching Assistant** for a graduate course, offering 1-on-1 consultation on coding, API usage, NLP, & topic modeling

The Chinese University of Hong Kong, Hong Kong

Aug. 2015 – Jul. 2019

Bachelor of Social Science in Sociology (Major GPA: 3.67/4.00; First Class Honours)

TECHNICAL SKILLS

- Python, MySQL, R, Tableau, Power BI, AWS
- Data Mining, Machine Learning, Data Engineering, Predictive Modeling, Multivariate Regression Analysis, A/B Testing

PROFESSIONAL EXPERIENCE

Mercatus Center, Arlington, VA

Jan. 2023 – May 2023

Policy Analytics Intern

- Developed and implemented data migration strategies to move data containing over 500,000 Chinese firm records from a series of CSV files to the MySQL system; Scraped firm records from government websites and integrated them into the database
- Created and maintained technical documentation for ETL processes and workflows

Hanover Research, Arlington, VA

Jun. 2022 – Aug. 2022

Summer Research Intern (Product Management)

- Enhanced survey analysis and visualization tools for market researchers' use by partnering with the engineering team
- Created product roadmaps for 2 sprints, defined 10 new features, and designed user interface mock-ups in an agile environment
- Tested over 30 features, reported and remediated over 20 errors before feature release to ensure a smooth operation of the system

The University of Chicago, Chicago, IL

Feb. 2022 - Aug. 2022

Research Assistant at Booth School of Business

- Extracted meaningful information and identified patterns from newspaper articles related to UK gender pay gap in Python
- Visualized the most frequently appeared words in the corpus using WordCloud; Leveraged the LDA algorithm to conduct topic modeling and uncovered media coverage on gender pay gap issues in the banking industry

Hong Kong University of Science and Technology, Hong Kong

Jan. 2021 – Jul. 2021

Research Assistant at Department of Management

- Cleaned and transformed 2 million Chinese microblog posts using Python Pandas and Numpy; Researched the correlations between celebrities' political ideology and size of fan base, generated visualizations for trends and patterns using R (ggplot)

Hong Kong SAR Government, Hong Kong

Aug. 2019 – Jan. 2021

Assistant Labour Officer at Labour Department

- Managed and monitored the operation of the largest governmental job posting site (with 600,000 job ads yearly) in Hong Kong
- Generated monthly statistical reports to keep track of the overall and segmented trends of job ads using SQL
- Coached and supervised 8 assistant clerical officers; Strengthened their work efficiency and inquiry-handling techniques

PROJECTS

Food Authenticity on Restaurant Ratings (2022) | Python, Pandas, Numpy, Matplotlib, Bokeh | Web scraping

- Wrote 2 web crawlers to scrape over 100,000 user reviews from TripAdvisor and Zomato using Python Selenium & BeautifulSoup
- Developed OLS regression models; Discovered significant impacts of food authenticity and business locations on restaurant ratings
- Visualized rating trends and patterns using Matplotlib & Bokeh

Analysis of #WorkFromHome Tweets (2022) | Python | Tweet scraping, Natural Language Processing

- Integrated a dataset from Twitter using API; cleaned and pre-processed over 1 million #WorkFromHome tweets using Python
- Calculated the TF-IDF matrix to identify the most frequent adjectives and computed sentiment scores

PUBLICATION

- **Chui, H., Li, H., & Ngo, H. Y. (2020).** Linking Protean Career Orientation with Career Optimism: Career Adaptability and Career Decision Self-Efficacy as Mediators. *Journal of Career Development*, <https://doi.org/10.1177/0894845320912526>