Kangyu (Mark) Wang

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Education

University of British Columbia Aug. 2020 – July 2021
Master of Data Science Candidate | A+ *Vancouver, BC*
- First Place, West Coast Regional Datathon at Citadel and Citadel Securities Feb. 2021

University of California, San Diego Aug. 2017 – June 2019
Master of International Economics | 4.0 / 4 | Dean's Fellow, Academic Achievement Award *La Jolla, CA*

Fudan University Sept. 2013 – June 2017
Bachelor in International Politics | 3.82 / 4 *Shanghai, China*

Experience

Fellow Sept. 2019 – July 2020
The Cohen Group *Washington, DC*
- Analyzed emerging data and technology regulatory challenges in China, India and Southeast Asia for clients in media, electronics, healthcare and energy sectors and drafted C-suite briefings, memos and research reports
- Gathered data and drafted weekly international macroeconomic updates for senior colleagues and client executives
- Conducted open-source research to inform clients of macro environment and competitive landscape in new markets

Finance Intern June 2019 – Sept. 2019
PriceSmart, Inc. *San Diego, CA*
- Communicated with procurement team to identify goals of sales forecasting and drafted project plans
- Inquired, cleaned, and re-organized transaction-level sales data and developed summary analyses and visualizations
- Applied Fourier transforms to de-trended and de-seasonalize time series data and trained algorithms including Neural Network, Random Forest, Ridge and LASSO to make projections 6 months into the future
- Presented forecasting results and implications for procurement strategies to team leadership and drafted reports

Intern (Office of Henry Wendt Chair in Political Economy) June 2019 – Sept. 2019
American Enterprise Institute *Washington, DC*
- Managed and analyzed macro-economic and financial datasets and household survey results to obtain point estimates of key United States labor economic indicators and produced summary tables, figures and maps
- Modeled the impact of education, healthcare and governance on national economic growth worldwide using fixed effects and random effects and conducted outlier and principal component analyses with Stata and R
- Examined declining labor force participation in the US and drafted research reports for non-technical audiences

Projects

Combating America's Other Infodemic | *Python* Feb. 2020
- Wrangled data on pandemic control policies, population physical mobility and people's beliefs about COVID-19
- Applied time series and panel regressions to explore the relationship between COVID-19 knowledge, compliance to government restrictions on non-essential physical movement and severity of COVID-19 pandemic across US regions

Transit Development Priorities in Greater Vancouver | *Python* June 2020 – Feb. 2021
- Obtained, cleaned and analyzed 2016 Canadian Census and Open Mobility data and produced tables, charts and maps on the relationship between socio-economic factors and access to Greater Vancouver's public transit system
- Applied regression models, tree-based models and neural networks to identify neighborhoods where access to transit infrastructure and service most significantly restraints usage of public transportation in daily commute
- Analyzed global and local feature importance, and presented policy suggestions with an interactive web application

Explaining the Migration Patterns of Tertiary Educated Migrants | *R, Stata* June 2019 – Sept. 2019
- Build OLS and instrumental variable models to identify the causal relationship between economic and labor market development and provincial higher education capacity and migration patterns of people with tertiary education
- Conducted model diagnostics using R and Excel and drafted four research reports for public-sector clients

Technical Skills

Languages: Python, R, SQL, Stata
Developer Tools: Git, VS Code, RStudio, Jupyterlab, Amazon Web Service, Docker
Libraries: NumPy, pandas, GeoPandas, scikit-learn, PyTorch, Altair, ggplot2, Dash