

# SHEK MAN (VINCENT) CHU

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## Education

**Faculty of Arts and Science, University of Toronto**

**Toronto, ON**

*Honours Bachelor of Science, Double Major in Economics and Statistics*

**2017-2022**

- **Academics:** cGPA:3.5/4.0, Majors GPA: 3.8/4.0, Dean's List
- **Relevant Courses:** Data Analysis, Financial Economics, Machine Learning, Financial Risk Management, Econometrics

## Professional Experience

**Economics Research Assistant**, University of Toronto, Toronto, ON

**Sep 2021 - Present**

- Performed data processing, and exploratory data analysis to discover relationships in experimental data using R.
- Synthesized data into summaries and probability function plots for the study of ambiguity aversion.
- Analyzed the effect of feedback on the risk preference of the test subjects, simulating the learning progress and effect of experience on individuals' ability to gauge unknown risk.
- Designed new queries and utilized existing queries to draw relevant information for economics interpretation.
- Created metrics which categorized experiment participants according to their behaviour and risk preferences.
- Presented findings in the form of data visualization and tables to the supervising professor.

**Academic Legal Researcher**, Newton Wong and Associates, Toronto, ON

**Oct 2020 – Apr 2021**

- Published an opinion piece in *The Lawyer's Daily* highlighting the issue regarding access to justice during the pandemic, and its systematic obstacles.
- Contributed to another academic paper on the impact of corporate governance law for Canadian ownership of businesses.
- Reviewed literature on the economics of leveraged buyout, hostile takeover, history of incorporation, and the methods utilized to eliminate agency problems and moral hazards regarding corporate governance law.
- Performed comparative analysis on the Canadian and US law on hostile bid defence strategies for the analysis of its possible impact on the Canadian economy.

**Mathematics Tutor**, Uforse Education Group, Toronto, ON

**Oct 2018 – Present**

- Taught multiple high school and first year level courses to 100+ students with topics in economics and mathematics.

## Projects & Extracurricular Experience

**Machine Learning Project – News and the Stock Market**, Toronto, ON

**Dec 2021 - Present**

- Web scraped Yahoo News using Selenium and Python to acquire daily text data on news headlines.
- Used a Natural Language Processing technique called Latent Dirichlet Allocation to perform topic modelling on the news headlines and built a dictionary for COVID-19 related new titles.
- Performed sentiment analysis on the new headlines using the VADER lexicon to acquire daily news sentiments.
- Created two indexes, one based on the daily proportion of COVID-19 related headlines, and the second based on the daily sentiment acquired from news headlines.
- Found a correlation of approximately 0.1 and 0.07 between the two indexes and the S&P500.

**RCFTA TechTrade Algorithmic Trading Competition**, Toronto, ON

**Nov 2021**

- Used Python to pull data from Yahoo Finance and constructed an automated algorithm to select collections of stocks based on their historical volatility as well as beta to optimize the risk and return profile of the portfolios.
- Achieved a minimum Sharpe ratio of 2.0 between 2019 to mid 2021 for all constructed portfolios.
- Optimized numerous portfolios according to the case requirements by developing different trading strategies using fundamental and technical indicators and performed negative screening to select specific industries.

## Additional Information

- **Skills:** Java, Python, R, Stata, SQL, Tableau, Machine Learning, Web Scraping, Microsoft Office applications
  - **Languages:** Fluent in English, Cantonese, and Mandarin
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