Peter Guo

EDUCATION

Rotman School of Management & Department of Economics, University of Toronto — Toronto, Ontario
Master of Financial Economics — *Expected June 2026*
- **Scholarship:** Graduate Entrance Scholarship ($4,000)
- **Upcoming Relevant Courses:** Corporate Financing II (MBA); Options and Futures (MBA); Financial Economics; Econometrics

Faculty of Arts & Science, University of Toronto — Toronto, Ontario
Bachelor of Science (Specialist in Financial Economics, Major in Statistics, Rotman Business Fundamentals Certificate) — *Sep 2020 – Apr 2024*
- **Academics:** cGPA 3.88/4.0
- **Awards:** Graduated with High Distinction; Dean's List Scholar 2020 - 2024
- **Relevant Courses:** Machine Learning II (A+); Data Analysis II (A+); Applied Econometrics II (A); Time Series Analysis (A+); Adv. Macroeconomics (A+); Financial Economics (A+); Corporate Finance (A+); Financial Econometrics (A+); Risk Management (A+)

INDUSTRY CERTIFICATIONS

- CFI: Fixed Income Fundamentals, DCF Valuation Modelling, 3-Statement Modelling, M&A Modelling, Corporate Finance — *2024*
- Bloomberg Market Concepts: Equities, Fixed Income, Foreign Exchange, Commodities, Options, Economic Indicators — *2024*
- Coursera: SQL for Data Science — *2023*

PROFESSIONAL EXPERIENCE

Rotman School of Management, University of Toronto — Toronto, Ontario
Quantitative Research Assistant — *May 2024 – Present*
- Developed NLP text classification models to detect corporate fraud using Python, achieving a 15% increase in prediction accuracy
- Implemented web scraping scripts to extract over 22,000 data from SEC; conducted data cleaning and validation to support analysis
- Utilized BeautifulSoup, Scrapy, and Selenium to automate data collection process, reducing manual data collection time by 85%

Deloitte — Macao, China
Audit and Assurance Intern — *May 2023 – Aug 2023*
- Automated the updating process of transaction monitoring dashboards using VBA, improving process efficiency by two weeks
- Created and updated 25+ Excel models to streamline control testing and enhance misstatement detection for financial reporting
- Visualized operating performance to analyze trends in the company's activity over 3 years using Excel, supporting risk assessment

Government of Macao SAR Statistics and Census Service (DSEC) — Macao, China
Data Analyst — *May 2022 – Aug 2022*
- Developed Excel-based automation models using VBA for reporting and data processing, ensuring smooth workflow and efficiency
- Surveyed citizens to collect detailed personal information for the databases; analyzed and interpreted over 50,000 data points in Excel

New Yaohan — Macao, China
Marketing and Sales Intern — *May 2021 – Aug 2021*
- Utilized VBA and PowerPoint to generate reports; analyzed market conditions and competitor strategies to initiate marketing plans
- Established customized dashboards and automated reporting spreadsheets using Excel PivotTables for management's decision-making
- Collaborated with the senior management team to enhance marketing and customer service operations, resulting in a 30% increase in sales through targeted direct marketing campaigns on social media platforms, such as WeChat and Instagram

RELEVANT ACADEMIC EXPERIENCE

Machine Learning in Macro Finance Project – Predictive Analysis of Unemployment Rates Using Python (Grade: A+) — *Oct 2023 – Dec 2023*
- Employed multivariate forecasting models for unemployment rates using (scikit-learn) Random Forest and Decision Tree algorithms
- Utilized Python for economic data manipulation, employing Matplotlib, Seaborn, and pandas for data analysis and visualization
- Applied statistical techniques for model validation and optimization using GridSearchCV, improving estimation accuracy by 20%
- Conducted feature importance analysis to explore the driving factors of unemployment rates, providing strategic economic solutions

Time Series Forecasting and Analysis Project – Stock Market Price Prediction Using R (Grade: A+) — *Feb 2023 – Apr 2023*
- Applied ARIMA and GARCH models to predict the mean and volatility of Financial Sector (XLF) and Energy Sector (XLE) ETFs
- Visualized and organized the data using ggplot2 and tidyverse; performed ACF and PACF to identify the optimal parameters
- Incorporated U.S. 3-month Treasury Bills as a risk-free benchmark to construct an efficient tangency portfolio based on the models

PERSONAL

- **Technical skills**: Excel (VBA, Financial Modelling), Python, R, SQL, Stata, PowerPoint, Bloomberg Terminal, LaTeX, Power BI
- **Languages**: English, Mandarin, Cantonese
- **Interests**: Avid Home Cook (International), Basketball, Strategy Board Games, Fitness, Poker, Esports (League of Legends)