Rachit Lumb

EDUCATION

Rotman School of Management & Department of Economics, University of Toronto Toronto, Ontario
Master of Financial Economics *Expected June 2026*
- **Scholarship:** Graduate Scholarship ($6000)
- **Upcoming Relevant Courses:** Corporate Financing II (MBA), Security & Portfolio Analysis (MBA), Options & Futures (MBA), Econometrics (MA), Financial Economics: Asset Pricing (MA)

Department of Management & Department of Economics, University of Toronto Mississauga, Ontario
Bachelor of Commerce (Finance Specialist and Economics Major) *Sep 2018 – Jun 2022*
- **Academics:** cGPA 3.67/4.0
- **Awards:** Graduated with High Distinction, Dean's List Scholar
- **Scholarship:** Entrance Scholarship ($1000)
- **Relevant Courses:** Machine Learning (A-), Coding for Business (A), Business Finance (A), Topics in Asset Pricing (A-), Calculus (A), Fixed Income Markets (A-), International Monetary Economics (A), Financial Accounting (A+), Applied Econometrics (A)

INDUSTRY CERTIFICATIONS
- Corporate Finance Institute: DCF Valuation Modelling, Fixed Income, Corporate Finance *2024*

PROFESSIONAL EXPERIENCE

Bank of Canada Ottawa, Ontario
Research Assistant – Macroeconomic Analysis of Climate Change *May 2023 - Jun 2024*
- Analyzed a Dynamic Stochastic General Equalibirum (DSGE) model in Python to understand the macroeconomic implications of the transition to net-zero emissions
- Worked on a presentation deck to keep Governing Council informed regarding the climate scenario work
- Calculated productivity estimates of different energy and non-energy sectors in the model
- Circulated a note (co-authored) within the department regarding green vs. brown energy projects time to build and costs
- Researched the climate policies (e.g., investment tax credits) and emission targets of multiple countries to assist senior members of the team in scenario construction
- Modelled *Carbon Pricing, EV Mandate, Oil & Gas Emissions Cap, and Investment Tax Credits* policies alongside senior members of the team
- Produced charting scripts in Python that greatly sped up the analysis of model outputs

Research Assistant – Digital Economy and Advanced Analytics *Aug 2022 – May 2023*
- Worked with a Senior Economist to research how to best seasonally adjust high-frequency data (Co-Authoring paper in progress):
  - Used EViews, Python and R to perform grid optimization of hyperparameters and test various seasonal adjustment/forecasting packages on weekly transaction data (5+ years of data)
  - Tested multiple statistical approaches to appropriately adjust for the Covid-19 shock in the data
- Developed and maintained high-frequency macroeconomic data pipelines and dashboards frequently used by economists:
  - Refactored and maintained data pipelines using Python to improve efficiency and resolve any bugs
  - Used Python to analyze high-frequency data and to web scrape data used in some dashboards
- Wrote briefs describing macroeconomic insights from high-frequency data and created charts found in the Monetary Policy Report

ACADEMIC EXPERIENCE

Department of Management, University of Toronto Mississauga, Ontario
Teaching Assistant – Coding for Business (Professor O. Yung) *Fall 2021*
- Created rubrics to ensure marking consistency and used them to mark exams of approximately 60 students
- Responded to student inquiries regarding Python code and provided feedback

Short-Term Trading Project
International Monetary Economics *Fall 2020*
- Recommended investing 200,000 CAD in Airbus (Quoted in EUR) due to its increasing market share, early signs of Covid-19 vaccine development, and predicting the CAD will depreciate against the Euro
- Resulted in a hypothetical profit of roughly $100,000 when disregarding transaction fees

PERSONAL
- **Technical Skills**: Familiar in Excel, FactSet, MATLAB (beginner), PowerPoint, Python, R, SQL (beginner), STATA, Tableau
- **Languages**: Fluent in English, Conversational Hindi & Punjabi
- **Interests**: Basketball (Avid Golden State Warriors fan), Hiking (Provincial, and National parks like Banff), Table Tennis, Reading The Hill