DAMANVEER SINGH DHALIWAL

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EDUCATION

2017 - 2022 **UNIVERSITY OF BRITISH COLUMBIA, Sauder School of Business**   Vancouver, BC
Bachelor of Commerce, Finance
- Cumulative GPA of 3.90/4.33 (Key Classes: Advanced Corporate Finance (91%), Investment Theory (94%), Matrix Algebra (85%), Mathematical Game Theory (81%))
- International Leader of Tomorrow Award (~$300,000), Dean's Honour Roll (80%+ Academic Average)
- Affiliate student in the Department of Economics, University College London (January 2020 - July 2020) (Key Classes: Economics of Tax Policy, Economics of Money and Banking)

RESEARCH EXPERIENCE

Jan 2024 – Present **Sciences Po Department of Economics**   Paris, France
Research Assistant for Professor Marleen Marra and Professor Florian Oswald
- Conducted an in-depth analysis of the London Bus Network, employing advanced data analytics techniques in R to understand its intricacies, operational protocols and overall efficiency.
- Developed an R script to retrieve real-time location data from the Bus Open Data Service API. Utilized Open Source Routing Machine to evaluate route efficiencies and estimate dead miles where the buses are not generating revenue.
- Maintained and routinely debugged the R package for the project to ensure the replicability of results. Utilized Roxygen to provide detailed documentation and git to collaborate with the team.
- Used Tinytable, ggplot and kableExtra in R in conjunction with LaTeX to automate the generation and location of various tables and plots required for the paper.

July 2020 – Jan 2022 **UBC Sauder School of Business**   Vancouver, BC
Research Assistant for Professor Thomas Davidoff
- Priced STACR securities issued by Freddie Mac to understand the risk implications for private investors on insured products by creating simulated heterogeneous agent models, estimating key parameters to predict average losses, and comparing them with real-world data.
- Utilized Raster and GDAL to extract precise elevation data from the US Geological Survey's Digital Elevation Model (DEM). Managed and processed the extensive dataset (over ~30 GB) on a local computer using various scalable techniques.
- Explored US Loan Level Dataset from Freddie Mac to model default rates and loss given default to assist in the development of a Credit Risk Transfer program in Canada similar to STACR securities.
- Reviewed existing financial and urban economics literature to understand the effects of a CAC implementation in a municipality.

May 2021 – Aug 2021 **UBC Sauder School of Business**   Vancouver, BC
Research Assistant for Professor Ron Giammarino
- Explored legal and financial literature to study the bankruptcy process for municipalities under Chapter 9 of the United States Bankruptcy Code. Evaluated different theoretical financial models of municipal bankruptcy to understand shortfalls in current literature.
- Investigated the leading financial and societal causes for municipal bankruptcies and subsequent migration trends in the area.
- Assembled and analyzed data for over 58 municipalities that recorded an event of default on their debts.

PROFESSIONAL EXPERIENCE

June 2022 – Present **Chard Development**   Vancouver, BC
Senior Financial Analyst
- Conducted detailed policy research concerning housing supply in the City of Vancouver and Victoria. Analyzed how current policy debates will affect company portfolio values.
- Researched and modelled intricate scenarios concerning exit, debt financing, takeout financing, interest rate, and economy fluctuations to estimate capital requirements and profitability. Raised $200 million+ in equity commitment from institutional investors.
- Developed a Python script using BeautifulSoup and Open AI's GPT API that scrapes municipal development websites to discover competition and summarize their rezoning and development applications.

PERSONAL PROJECTS

Sep 2020 – Apr 2021 **Automated Combat Hemorrhage Occlusion Device**   Vancouver, BC
Product Development and Strategy
- Collaborated with 3 engineers and 2 software developers to develop an Automated Combat Hemorrhage Occlusion Device that utilized the bullet's kinetic energy to deliver hemostatic agents to the wound.

INTERESTS & SKILLS

Technical: R (Advanced), **Python** (Advanced), **LaTeX** (Advanced), **Excel** (Advanced), **Tableau** (Advanced), **Julia** (Intermediate), **STATA** (Basic), **MATLAB** (Basic), **SQL** (Intermediate), **OCaml** (Intermediate)

Personal: Tennis player, travelling, music, hiking, and a philosophy enthusiast!