

DAMANVEER SINGH DHALIWAL

Vancouver, BC
linkedin.com/in/damanveerdhaliwal

Tel: 604-700-5498
Email: damandhaliwal1910@gmail.com

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 (95.2% Admission Average), Dean's Honour Roll (80%+ Academic Average)
- Affiliate student in the Department of Economics, University College London (January 2020 - July 2020)

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. Acquired proficiency in using Open Source Routing Machine (OSRM) to incorporate into future analyses with the intent to study optimization of the network.

June 2022 – Present

Chard Development

Vancouver, BC

Senior Financial Analyst

- Conducted detailed policy research concerning housing supply in the City of Vancouver and Victoria, including how current policy debates will affect company portfolio values.
- Researched and modeled intricate scenarios involving capital over \$200 million concerning exit, debt financing, takeover financing, interest rate, and economy fluctuations to estimate capital requirements and profitability.
- Developed a Python script using BeautifulSoup and Open AI's GPT API to automate data collection and summarization on project proposals by competitors in operating geographical markets.
- Incorporated modification aligned with environmental standards and climate policies set forth by the Province of British Columbia and local municipalities into the financial underwriting process.

July 2020 – Jan 2022

UBC Sauder School of Business

Vancouver, BC

Research Assistant for Professor Thomas Davidoff and Professor Ron Giannarino.

- 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 by employing various scalable techniques.
- Mapped and merged the elevation data to establish a comprehensive 75 km radius around major cities, enhancing the spatial context for subsequent analyses.
- Applied Geopandas, Shapely, and Rasterstats to perform geospatial analysis on elevation data in conjunction with land cover information. Primary focus was to investigate changes in land use and housing pricing, emphasizing factors such as terrain slope, proximity to water bodies and international borders to derive insightful patterns and correlations.
- Investigated key financial and societal causes for municipal debt bankruptcies conducting an in-depth examination of their impact on subsequent migration trends in the respective areas.
- Systemically assessed different theoretical financial models associated with municipal bankruptcy to pinpoint deficiencies and gaps in the current scholarly literature.
- 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.

PERSONAL PROJECTS

Ongoing

Index Funds' Corporate Stewardship Behavior - Corporate Governance Policy

Vancouver, BC

Research Project

- Investigated and documented the transfer of corporate influence into the hands of passive asset managers.

Jul 2023 - Aug 2023

Vitruvius

Vancouver, BC

Co-Founder

- Evaluated the current structure of the approval process for housing entitlements.

Sep 2020 – Apr 2021

Automated Combat Hemorrhage Occlusion Device

Vancouver, BC

Product Development and Strategy

- Collaborated with senior leadership from the Canadian Armed Forces to develop an Automated Combat Hemorrhage Occlusion Device prototype 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), SQL (Intermediate), OCaml (Intermediate)

Personal: Tennis player, traveling, music, hiking, and a philosophy enthusiast with an academic paper on how love affects existence.