Jenny J. Liu

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Education

Cornell University 2021 – 2023

Dual Degree MSc Information Systems and Applied Information Science, Urban Tech *New York City, USA*

- Merit Scholarship Recipient ($40,000)

University of British Columbia 2017 – 2021

Bachelor of International Economics *Vancouver, Canada*

- Relevant coursework: Advanced Empirical Methods for Economics (A), Database Technology (A), Seminar in Applied International Economics (A), Computation, Programs and Programming (A+), Linear Algebra (A+), Symbolic Logic (A), Models of Computation (A-)
- Awards: Go Global Award, AMS Just Desserts Award (for exemplary community leadership)

Experience

Summer Student, Strategy Summer 2021

Business Development Bank of Canada (BDC) *Vancouver, Canada*

- Improved accuracy of annual partner referrals report to Advisory Services leadership by 12.5% through identifying missed referrals worth over $250,000 in generated business
- Analyze financial and advisory needs of high-growth companies and match them with BDC specialists to represent the Bank within government's Accelerated Growth Service program
- Gather and assemble data from scattered sources utilizing SQL to create presentation to outline BDC's key partnerships and relations for incoming CEO

Undergraduate Teaching Assistant Fall 2020, Spring 2021

University of British Columbia, Department of Computer Science *Vancouver, Canada*

- Led weekly lab sections of 30 students to facilitate hands-on learning of functional programming in Racket, filling gaps in student learning and receiving 5/5 score in all student evaluations
- Quadrupled student engagement at online office hours within a month by using a pupil-centric approach to gauge basic understanding of technical programming concepts such as recursion, graphs and abstraction
- Improved online learning engagement by collaborating in weekly meetings with professors to discuss techniques to motivate student learning, such as creating and facilitating discussion groups

Research Assistant, Data Group Fall 2020, Spring 2021

BC Children's Hospital Research Institute (BCCHR), Data Group *Vancouver, Canada*

- Generated data mining insights for upcoming research publication on research collaborations, using hierarchical clustering of 40,000+ MeSH keywords and generating visualizations using heatmap2 in R
- Facilitated planning of department's online research workshop focused on Clinical Decision Support System Structures, liaising with professors and creating digital marketing materials across 10+ channels
- Reinforced findings for end-of-term report by creating a network visualization of all of BCCHR's publication collaborations using Cytoscape, effectively discovering which professors out of 500 collaborated most frequently

Leadership

Leader of Tomorrow & Committee Member | *Greater Vancouver Board of Trade* 2020 – Present

- Conducted academic research to prepare research proposal on smart city priorities within Canada, to be shared and discussed with Board of Trade Civic Affairs Committee
- Led team to deliver research project on childcare case studies and recommendations, to be presented to committee of local business and government leaders

President | *Vancouver School of Economics Undergraduate Society* 2017 – 2021

- Bolstered average online event turnout by 60% through leading creation of internal data metrics system, allowing performance data to be quantified and leveraged for improved insights
- Founded equity and engagement initiatives to triple student impact by allocating new grants for BIPOC groups and creating Student Clubs Incubator for all budding Economics-related clubs and initiatives

Projects (on github)

"Clearing" Customs: Institutional Quality and Carbon Trade Flows | *Thesis* Jan. 2021 – Apr. 2021

- Utilized Python, R and Stata with N = 1.5 million, ran OLS regression with fixed effects and interactions to investigate hypothesis that countries with higher institutional quality import more carbon-intensive products
- Suggested an answer to factors behind uneven global carbon policies and carbon leakage, causing rich countries to successfully curb their own emissions but still creating carbon demand for goods through international trade

UBC Yoga Club Membership System | *Vice-President, UBC Yoga* Oct. 2020 – Jan. 2021

- Created membership database system and graphical user interface in Java, to keep track of members, add/delete members and save/upload data files
- Successfully cut high costs of a software subscription system for the club, which was struggling due to COVID-19

Technical

Skills: econometrics, functional programming, object-oriented programming, data science
Languages: Java, Python, R, SQL, Racket, Stata, LaTeX
Developer Tools: Jupyter Notebook, MS Office, Github, Git, IntelliJ IDEA, DrRacket, Cytoscape
Libraries: pandas, Numpy, Swing, Matplotlib, ggplot2, gplots