

Jack Madison

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EDUCATION

Simon Fraser University

Bachelor of Arts Honours Economics

Burnaby, BC

May 2017 - August 2021

- GPA: 4.16/4.33 Cumulative, First Class with Distinction
- Undergraduate Thesis: "A Tough Pill to Swallow: Investigating the Impact of Advertising to Physicians on Opioid Prescribing Patterns"
- Relevant coursework: Honours Research Project, Advanced Macroeconomic Theory, Advanced Microeconomic Theory, Econometric Methods, Health Economics, Industrial Organization
- Awards: Presidents Honour Roll (Fall 2018 and Spring 2020) and Undergraduate Open Scholarship (2018 - 2020)

WORK EXPERIENCE

Simon Fraser University

Research Assistant

Burnaby, BC

September 2021 - Present

- Work as a research assistant for Dr. Hitoshi Shigeoka examining the effect of pollen exposure on various health outcomes from an economic perspective
- Collect and clean Google Trends, Twitter, and pollen count data from Japan using Python
- Conduct literature reviews on the health implications of pollen, pollution, and temperature

Elite Educational Institute

AP Economics Teacher

Vancouver, BC

September 2021 - December 2021

- Cultivated curiosity about economic theories and examined current events through the use of economic models highlighted in class
- Lectured two classes a week, microeconomics and macroeconomics, communicating quantitative material with precision and clarity

Simon Fraser University

Research Assistant

Burnaby, BC

May 2020 - August 2021

- Worked as a research assistant on a team led by Dr. Hendrik Wolff investigating the effects of the COVID-19 pandemic on urban mobility
- Collected data on bike share programs, bike counters, and car share programs from APIs and mobile apps using Python
- Assisted in the editorial process for the Journal of Environmental Economics and Management
- Received Simon Fraser University's Undergraduate Student Research Award (Summer 2020 - Summer 2021)

Robin's Pharmacy Ltd.

Pharmacy Assistant

Vancouver, BC

July 2010 - February 2017

- Created and maintained a prescription filing and retrieval system in accordance with the BC College of Pharmacists guidelines
- Filled walk-in patient's prescriptions and prepared weekly medication blister packages for mental health facilities with speed and accuracy

TECHNICAL SKILLS

- Collect, clean, and analyse data in Python using libraries such as Pandas, NumPy, scikit-learn, Matplotlib, and Requests
- Clean data, conduct analysis, and create informative graphics in R using packages such as dplyr, tidyverse, sandwich, and ggplot2
- Run regressions and prepare data in STATA
- Simulate macroeconomic shocks given various central bank policy rules in MATLAB using Dynare
- Produce academic papers and coursework in L^AT_EX