Jack Madison

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EDUCATION

University of British Columbia — Vancouver, BC
Master of Arts Economics - In Progress — September 2022 - Present

- Average Grade: 92% (equivalent to a 4.33 GPA)
- Relevant coursework: Microeconomics, Macroeconomics, Mathematical Economics, Econometrics

Simon Fraser University — Burnaby, BC
Bachelor of Arts Honours Economics — May 2017 - August 2021

- GPA: 4.16/4.33 Cumulative, First Class with Distinction
- Relevant coursework: Honours Research Project, Advanced Microeconomic Theory, Advanced Macroeconomic Theory, Econometric Methods, Health Economics, Industrial Organization
- Awards: President's Honour Roll, Undergraduate Open Scholarship, and Cliff Lloyd Memorial Award

WORK EXPERIENCE

University of British Columbia — Vancouver, BC
Teaching Assistant — September 2022 - Present

- Performed teaching assistant tasks such as conducting tutorials, grading examinations, and holding office hours for ECON 334: Economic History of Modern Europe and ECON 221: Introduction to Strategic Thinking
- Cultivated curiosity about economic theories, examined historical events through the use of economic models, and helped students to model real world interactions using game theory
- Achieved an average teaching assistant evaluation rating of 4.9/5 from students

Simon Fraser University — Burnaby, BC
Research Assistant — September 2021 - August 2022

- Worked as a research assistant for Dr. Hitoshi Shigeoka examining the impact of pollen exposure on various health outcomes from an economic perspective
- Collected and cleaned Google Trends, Twitter, and pollen count data from Japan using Python
- Performed sentiment analysis on Japanese Twitter data using Python in a Google Cloud VM
- Conducted literature reviews on the health implications of pollen, pollution, and temperature exposure

Simon Fraser University — Burnaby, BC
Research Assistant — 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

Robin's Pharmacy Ltd. — Vancouver, BC
Pharmacy Assistant — July 2010 - February 2017

- Filled walk-in patient's prescriptions, prepared weekly blister packages for mental health facilities, and dispensed medication to at-risk community members

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 tidyverse, quantreg, and ggplot2
- Simulate macroeconomic shocks given various central bank policy rules in MATLAB using Dynare
- Create interactive Jupyter and Pluto notebooks containing Julia and Python code