

Joshua Catalano

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EDUCATION

PhD in Economics | *Vancouver School of Economics* Expected June 2024

Fields: Econometric Theory and Industrial Organization

Research Topics: Econometric Theory, Applied Econometrics, and Machine Learning

Bachelor of Arts, with distinction | *University of Colorado at Boulder* Aug 2010 - Aug 2014

Majors: Mathematics & Summa Cum Laude in Economics ([Honor's Thesis](#)) GPA: 3.78

RESEARCH

Working Papers

- "Divide Group and Conquer: Partitioning Algorithms for Parallel Trends" (job market paper)
- "Unknown Group Structure in Econometric Models" (with Vadim Marmer & Paul Schrimpf)

ACADEMIC EXPERIENCE

Instructor of Record | *Vancouver Summer Program, University of British Columbia* July 2023 - Aug 2023

- Designed an intensive, month-long introductory data science course called [Working with Big Data](#).
- Taught students the fundamentals of coding, data wrangling/cleaning, classification, regression, and neural networks.

Teaching Assistant | *University of British Columbia* Dec 2022 - Feb 2023

- Responsibilities: grading, leading weekly tutorials, managing the class's online forum, solving problem sets, performing replications, developing rubrics, and creating coding problems for exams and homeworks.

Selected Courses

- Quantitative Economic Modeling with Data Science Applications (undergraduate level)
- Microeconomics and Macroeconomics for Policy (master's level)
- Computational Economics with Data Science Applications (PhD level)

Research Assistant for Dr. Patrick Baylis | *University of British Columbia* Oct 2018 - Apr 2020

- Helped Dr. Baylis with his research by finding data, plotting maps, running regression analyses, and reporting results.
- Gained proficiency in R and in particular, the fixest package and tidyverse library.

AWARDS & SCHOLARSHIPS

University of British Columbia | *PhD Student*

- Faculty of Arts Graduate Award, 2017 & 2020-2021
- British Columbia Graduate Scholarship, 2019
- President's Academic Excellence Initiative PhD Award, 2020-2023

University of Colorado at Boulder | *Undergraduate*

- Dean's List, 2011-2014
- Sieglinde Talbott Haller Endowed Economics Scholarship, 2013

INDUSTRY EXPERIENCE

Portfolio Implementation Associate | *Fisher Investments* Aug 2014 - Jul 2017

- Implemented/maintained client portfolios by balancing idiosyncratic needs of clients with adherence to a model portfolio.
- Created and maintained critical databases used for portfolio management.
- Trained all new portfolio implementation associates in MS Access and SQL.
- Gained broad investment, financial market, and tax knowledge in addition to proficiency in SQL, relational databases, and Visual Basic for Applications.

Audio/Video Recording Engineer | *School of Music, University of British Columbia* Sep 2017 - Mar 2020

- Recorded audio and video for School of Music events and student recitals/auditions using Adobe Premier and Pyramix.
- Communicated with and managed the expectations of clients.
- Implemented various recording techniques.

PROGRAMMING LANGUAGES & SOFTWARE

Preferred: Julia, Python, R, and LaTeX

Other: SQL, Visual Basic for Applications, MS Access, Matlab, and Stata

REFERENCES

- [Vadim Marmer](#) (chair)
Professor of Economics | Graduate Program Director
Vancouver School of Economics
University of British Columbia
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- [Paul Schrimpf](#)
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- [Henry Siu](#) (teaching reference)
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