

Jared Buck

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SUMMARY

PhD candidate in Economics with experience delivering end-to-end analytics projects: extracting and structuring raw data, building reproducible pipelines, applying statistical and machine learning methods, and producing stakeholder-ready deliverables (clean datasets, reports, documentation, and survey instruments). Targeting data analyst / data science roles focused on rigorous analysis and clear communication.

TECHNICAL SKILLS

Programming: Python; SQL; Stata; MATLAB

Analytics: data cleaning/merging; feature engineering; text classification (TF-IDF + logistic regression); regression & survival analysis; reporting

Tools: Excel; Qualtrics; $\text{\LaTeX}$

Practices: reproducible workflows; documentation for technical and non-technical audiences

Languages: fluent in English and French

SELECTED ANALYTICS PROJECTS / EXPERIENCE

Data Analyst Intern — Experiential Learning Course Inventory,

Experiential Learning Department, Concordia University, Montreal, Canada

February 2025 – May 2025

- Built a structured course dataset in Python by extracting and standardizing information from a 2,000+-page undergraduate calendar PDF; catalogued 1,300+ courses across 80 departments, 4 faculties, and 300 programs.
- Developed an end-to-end text classification pipeline (TF-IDF + logistic regression) that **flagged 400 additional courses as likely EL** for stakeholder review.
- Implemented data quality controls (standardization rules, deduplication, consistent identifiers) and delivered stakeholder-ready Excel outputs for departmental reporting.
- Produced an Excel report summarizing EL coverage for 120 Faculty of Arts and Science programs (core EL courses and elective EL options) by department.
- Authored a methodology memo and a reproducibility-oriented technical report documenting assumptions, data steps, and model approach.

Survey Research Intern — Alumni French Learning Survey

Bureau de la valorisation du français, Concordia University, Montreal, Canada

February 2025 – August 2025

- Designed and implemented a 40-question alumni survey to measure French learning experience, retention, and post-graduation integration in Quebec.
- Built the instrument in Qualtrics (survey flow/skip logic, validation, standardized formatting) and packaged deliverables for institutional distribution; cleaned and analyzed ~1200 responses.
- Key findings: 60% of respondents cited French learning as a primary factor shaping their job-search location post-graduation; survival model estimates suggest **1.4× higher retention** among alumni who took French courses (model-based association). Documented limitations of the findings due to small sample size.
- Summarized descriptive findings and model outputs into a stakeholder-ready report to inform program evaluation and future data collection.

Doctoral Researcher (Economics) — Applied Modeling & Data

Concordia University, Montreal, Canada

2021 – Present

- Built analysis datasets and conducted quantitative analysis on late college entry, dropout, and re-entry using NLSY79 and NLSY97 microdata (280 variables; 500,000+ **person-year** observations).
- Developed computational models of household portfolios and retirement decisions; translated economic assumptions into implementable, testable code.
- Developed a framework to explain the “borrowing-high / lending-low” pattern (simultaneous high debt and low-return liquid assets) observed in household data.
- Quantified trends in retirement debt over time and analyzed composition shifts (secured vs. unsecured), highlighting patterns consistent with liquidity-management motives.

TEACHING EXPERIENCE

Part-Time Lecturer

January 2023 – December 2025

Faculty of Arts and Science, Concordia University

Montreal, Canada

- Instructor for “Math for Economists I” (ECON 325); second-year undergraduate course with ~60 students per semester.
- Wrote 180 page course note document to replace textbook.
- Built original library of practice, assignment, and test questions.

Teaching Assistant

January 2021 – Present

Faculty of Arts and Science, Concordia University

Montreal, Canada

- Tutorial lead for “Math for Economists II” (ECON 326).
- Assistant for the Master’s research seminar (ECON 696); help Master’s students develop their research questions and learn software.
- Grader for numerous undergraduate level courses.

EDUCATION

PhD in Economics

Expected 2026

Concordia University

Montreal, Canada

MA in Economics

2021

Concordia University

Montreal, Canada

BA in Economics with Honours

2020

Concordia University

Montreal, Canada

AWARDS & SCHOLARSHIPS

FRQSC Doctoral Research Scholarship

May 2025 \$25,000

Concordia Merit Scholarship

September 2022 \$10,000

Concordia University Graduate Doctoral Fellowship

January 2021 \$56,000

ADDITIONAL EXPERIENCE

Administrative Assistant

May 2019 – August 2020

Pro-Par Inc.

Sherbrooke, Canada

Team Manager / Customer Sales (SME)

November 2017 – August 2018

TTEC, Fido Answers Campaign

Montreal, Canada

Summer Laborer

March 2013 – August 2017

Pro-Par Inc.

Sherbrooke, Canada