

# ALEXANDER BRUCE

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## EDUCATION

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### Gannon University

B.S.B.A in Economics, Minor in Statistics

May 2025

*Summa Cum Laude, Award for Academic Excellence in Economics*

GPA: 3.96

Selected Courses: Advanced Statistical Modeling, Linear Algebra, Differential Equations, Probability and Statistics, Applied Econometrics, Mathematical Modeling, Financial Mathematics, Intro to C/C++, Game Theory, Financial Markets and Institutions, Intermediate Micro/Macroeconomics, Public Finance

## RESEARCH

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### Estimating Securities-Based Loans Outstanding (joint with Simona Hannon, Federal Reserve Board)

*FEDS Notes, 2024. Board of Governors of the Federal Reserve System*

### An Overview of Credit-Building Products (joint with Simona Hannon, Federal Reserve Board)

*FEDS Notes, 2024. Board of Governors of the Federal Reserve System*

### The Payday Rule and Credit Supply (forthcoming, joint with Simona Hannon, Federal Reserve Board)

### Public Response to Mass Shootings: A Data-Driven Approach Using Google Trends

(joint with Graham Rusco, Gannon University)

- ◇ 2nd place in the undergraduate paper contest at the Pennsylvania Economic Association Annual Conference
- ◇ 1st place in the undergraduate paper contest at the OAEPS Annual Meeting

### Similarities in Thought Between Calvin Coolidge and Milton Friedman

- ◇ 1st Place in Undergraduate Paper Competition - Calvin Coolidge Presidential Foundation/Free to Choose Network

## EMPLOYMENT

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### Federal Reserve Board

May 2023 - present

*Economics Intern for Dr. Simona Hannon*

Division of Research and Statistics, Consumer Finance Section

- Created a novel data set of U.S. finance companies. Used R and STATA to web scrape, clean, prepare, and visually inspect data to offer insights into a major component of the growing, yet understudied, non-bank sector in the U.S.
- Co-authored three FEDS Notes on securities-based lending, the Payday rule, and credit-building products. Used ggplot and policyPlot in R to create charts, cleaned and prepared data, fact checked and proofread the manuscripts.
- Created chartpacks for credit-building product market monitoring, bank and non-bank lending, credit unions and finance companies.

### Larson Texts Inc.

September 2020 - May 2023

*Intern, Higher-Ed Mathematics*

- Developed mathematics exercises and solutions ranging from elementary level to Calculus.
- Participated in the implementation and initial design of the National Digital Assessment Project.

### Department of Economics - Gannon University January - December 2023; June - October 2024

*Voluntary Research Assistant for Dr. David Yang*

- Reviewed Python code retrieving macroeconomic data via FRED API and crypto price data via Tiingo.
- Assisted in the creation of a Jupyter Notebook teaching fundamentals of financial analysis in Python.
- Attended private lectures covering econometrics and machine learning methods (with sk-learn).

## TECHNICAL SKILLS

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R | STATA | Python | SQL | HTML | CSS | L<sup>A</sup>T<sub>E</sub>X | JS | Google Professional Data Analytics Certification