

ALEXANDER BRUCE

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EDUCATION

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

expected May 2025
Cumulative GPA: 3.95

Relevant Courses: Differential Equations, Probability and Statistics, Applied Econometrics, Game Theory, Financial Markets and Institutions, Linear Algebra, Intermediate Microeconomics, Public Finance, Mathematical Modeling, Financial Mathematics, Intermediate Macroeconomics

RESEARCH

Estimating Securities-Based Loans Outstanding (joint with Simona Hannon, Federal Reserve Board)
FEDS Notes, 2024. Board of Governors of the Federal Reserve System

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

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

Similarities in Thought Between Calvin Coolidge and Milton Friedman

◇ 1st place in the undergraduate paper contest organized by the Calvin Coolidge Presidential Foundation

Partisanship in Public Response to Mass Shootings: Evidence from 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

EMPLOYMENT

Federal Reserve Board
Economics Intern for Dr. Simona Hannon

May 2023 - present

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 a set of charts for credit-building product market monitoring.
- Examined large banks' regulatory reports for CFPB late fee rule- and consumer credit delinquency-related references.

Larson Texts Inc. - Erie, PA
Intern, Higher-Ed Mathematics

September 2020 - May 2023

- Developed mathematics exercises and solutions ranging from elementary level to Calculus.
- Participated in the implementation and initial design of the National Digital Assessment Project.
- Organized, visualized, and cleaned data for a wide variety of projects.

Department of Economics - Gannon University *January - December 2023; June 2024 - present*
Voluntary Research Assistant for Dr. David Yang

- Created a list of the top ten cryptocurrencies by market cap for the years 2013-2023.
- Reviewed Python code retrieving macroeconomic data via FRED API and crypto price data via Tiingo.
- Attended private lectures covering supervised and unsupervised machine learning methods.

TECHNICAL SKILLS

R | STATA | Python | SQL | HTML | CSS | L^AT_EX | JavaScript | Microsoft Office: PowerPoint, Excel, Word | Tableau | JASP | Google Professional Data Analytics Certification (R, SQL)