

# ALEXANDER BRUCE

1alexanderbruce@gmail.com ◇ <https://1alexanderbruce.github.io/about/> ◇ December 2024

## EDUCATION

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

*expected May 2025*  
Cumulative GPA: 3.95

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** (in progress, joint with Simona Hannon, Federal Reserve Board)

**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

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**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.**  
*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.

**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.

## TECHNICAL SKILLS

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R | STATA | Python | SQL | HTML | CSS | L<sup>A</sup>T<sub>E</sub>X | JavaScript | Microsoft Office: PowerPoint, Excel, Word | Tableau | JASP | Google Professional Data Analytics Certification (R, SQL)