# Gregory Barbieri

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## PROFESSIONAL EXPERIENCE

**Bureau of Labor Statistics**, **Washington, D.C.**
*GS – 13 Senior Economist, October 2018 – Present*
- Wrote technical requirements to modernize a data pipeline for the Consumer Price Index (CPI) program.
- Designed and implemented new system features on a monthly sprint cycle.
- Co-lead monthly demonstrations of completed features to stake holders and management.
- Taught courses on and mentored students in using statistical programming languages and time management.
- Served as mentor for new employees.

*GS – 12 Economist, July 2016 – October 2018*
- Lead a team to replace the main source of establishment data for the CPI's pricing surveys.
- Maintained analysis and work plans in order to respond quickly to shifting requirements.
- Authored reports on trends response rates, non-response bias in survey data.
- Regularly presented trends in survey data to support management decision making.
- Presented to internal and external audiences on CPI's sampling methodology and plans for modernization.

*GS – 9, 11 Economist, July 2014 – July 2016*
- Wrote technical requirements to ensure accurate survey data collection for the CPI price program.
- Coordinated with the US Census Bureau to test and implement survey protocols and ensure data quality.
- Took initiative to revise data processing schedules to discover issues earlier in the process.
- Streamlined survey data review processes by writing a suite of SAS programs to replace ad-hoc review.
- Performed statistical analysis to identify outlier expenditure data and determine treatment.
- Answered internal and external data inquiries on US consumer behavior.

**Georgetown University, School of Continuing Studies**              **Washington, D.C.**
*Lecturer for the Certificate in Data Science*                        *April 2021 – Present*
- Demonstrated how to use visualizations to facilitate machine learning model selection and evaluation.
- Demonstrated how to asses machine learning model performance and diagnose common problems.
- Taught the importance of data visualizations in the data science pipeline.

**Georgetown University, School of Continuing Studies**              **Washington, D.C.**
*Teaching Assistant for the Certificate in Data Science*              *January 2020 – June 2020*
- Reviewed and updated course materials for their data science curriculum.
- Regularly met with students to reinforce their lessons on data analysis, visualization, and machine learning.
- Guided students through in-class coding exercises.

**Security and Exchange Commission**                                 **Washington, D.C.**
*Division of Economic and Risk Analysis, Internship*                  *Spring 2014*
- Performed literature reviews pertaining to policies of the Office of Financial Intermediaries
- Utilized SAS to produce and tabulate summary statistics and regression results.
- Utilized financial databases to retrieve information on banks for economic analysis.

## EDUCATION

**George Mason University**                                          **Fairfax, VA**
*Ph.D., Economics*                                                   *Fall 2020 – Present*

**Georgetown University**                                            **Washington, DC**
*Data Science Certificate*                                           *Spring 2019*

**American University**                                              **Washington, DC**
*M.A., Economics*                                                    *Fall 2012 – Spring 2014*

**Pennsylvania State University**                                    **State College, Pennsylvania**
*B.S., Economics*                                                    *Fall 2006 - Spring 2010*

## TECHNICAL SKILLS

- SAS, Python, and SQL
- QGIS
- Machine learning
- Microsoft Office Suite
- Data analysis and insight; organization and communication skills

## WORKSHOPS AND WRITING SAMPLES

- Greg Barbieri, Big Data Sources and the Telephone Point of Purchase Survey, 2016 Federal CASIC Workshops, https://www.census.gov/fedcasic/fc2016/ppt/Barbieri_FedCASIC.pdf
- Greg Barbieri, Nonresponse Bias Analysis, Information Collection Request for the Office of Management and Budget, https://www.reginfo.gov/public/do/DownloadDocument?objectID=78193801