

# Proposal: What Impacts GDP in the U.S.?

Ginamarie Mastrorilli  
Department of Statistics  
University of Connecticut

October 5, 2022

**Introduction** Gross Domestic Product is one of the main factors that goes into determining a country's economic growth. Gross Domestic Product or GDP is a "comprehensive measure of U.S economic activity." (add bea citation) (cite K. Hema Divya) found that exchange rates and market indexes are important factors that influence an economy's GDP. They also found that inflation is highly correlated, but not a significant influencer.

**Specific Aims** With so many economic factors and data readily available to us, which ones should economists focus on? When investigating U.S. Gross Domestic Product, the goal is to determine the relationship between variables and if those variables can help predict GDP. If a variable tends to predict the value of GDP, then economists should focus more on these independent variables when exploring Gross Domestic Product. I decided to choose this topic because as an economics minor, I have seen similar analysis, but have never had the opportunity to do this statistical analysis myself. This is important because even though there is an abundance of resources available about GDP, this information can change based on country, variables used, and which years your data contains.

**Data** My dependent variable will be Gross Domestic Product (GDP). My independent variables will be Population (Annual Percent), Interest Rate (Annual Percent), 10-Year Treasury Constant Maturity Rate, Disposable Personal Income (Annual Percent), Unemployment Rate (Annual Percent), and All Transactions House Price Index.

The data is collected from the Federal Reserve Economic Data (FRED) website. All of the datasets have been collected separately and compiled into one Excel file.

**Research Design and Methods** For this paper, I plan to create a multiple linear regression model. For this model, my dependent variable will be Gross Domestic Product, and my independent variables will be ... (add). My goal is to find which independent variables are associated and can help predict the value of GDP.

**Discussion** Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit

risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur. (?)

**Conclusion** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.