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# Analyzing Recent Anomalies in the Impact of Interest Rates and Inflation on US Financial Markets

**Nikhil S Jarunde**

USA

**ABSTRACT**

The traditional relationships between interest rates, inflation, and US stocks have experienced anomalies in recent years. Despite rising interest rates in 2023, the S&P 500 enjoyed significant gains, and high inflation did not dampen stock market enthusiasm. This paper delves into these anomalies, exploring potential explanations and their implications for understanding asset valuation dynamics. We analyze how factors like strong corporate earnings, investor behavior, alternative investment options, and global influences might have contributed to the observed deviations. Furthermore, we discuss the limitations of relying solely on historical relationships and highlight the importance of considering evolving economic paradigms and policy choices. By dissecting these anomalies, the paper aims to illuminate the complex interplay between macroeconomic variables and stock market performance in the current environment.

***Corresponding author**
Nikhil S Jarunde, USA.

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## Introduction

The financial markets operate on established relationships between key economic variables like interest rates, inflation, and stock prices. However, recent years have presented fascinating anomalies in these relationships, challenging conventional investment wisdom. Notably, despite significant interest rate hikes in 2023, the US stock market exhibited remarkable resilience, and high inflation did not trigger the anticipated market corrections. This paper embarks on a journey to understand these anomalies, uncovering potential explanations and their implications for our understanding of asset valuation dynamics.

Throughout this investigation, we will dissect various factors that might have contributed to the observed deviations. We examine the role of robust corporate earnings in overriding concerns about rising interest rates. We consider how alternative investment options with limited returns might have steered investors towards equities despite inflation anxieties. We analyze how investor behavior, particularly the increasing participation of retail investors, might have influenced market dynamics. We explore the impact of global influences, such as abundant global liquidity and commodity price fluctuations, on the observed relationships.

Furthermore, we acknowledge the limitations of solely relying on historical correlations. We emphasize the importance of considering the evolving economic landscape, with factors like technological advancements and shifting geopolitical dynamics potentially reshaping traditional relationships. Additionally, we highlight the crucial role of central bank policies and their effectiveness in combating inflation while supporting economic growth.

By delving into these anomalies, this paper aims to shed light on the intricate interplay between interest rates, inflation, and US stock market performance in the current environment. We hope to equip investors and financial professionals with a deeper understanding of these evolving dynamics and their potential implications for investment strategies in the dynamic world of finance.

## Anomalies in the Relationship between Interest Rates and US Stocks in Recent Years

The traditional understanding suggests an inverse relationship between interest rates and US stocks. Rising interest rates generally lead to lower stock prices due to several factors, including:

- **Increased Borrowing Costs:** Higher interest rates make it more expensive for companies to borrow, potentially impacting their profitability and expansion plans.
- **Discounted Future Cash Flows:** When interest rates rise, the present value of future company earnings decreases, impacting stock valuations.
- **Alternative Investments:** Higher interest rates make bonds and other fixed-income assets more attractive, drawing investment away from stocks.

However, recent years have presented some anomalies in this relationship

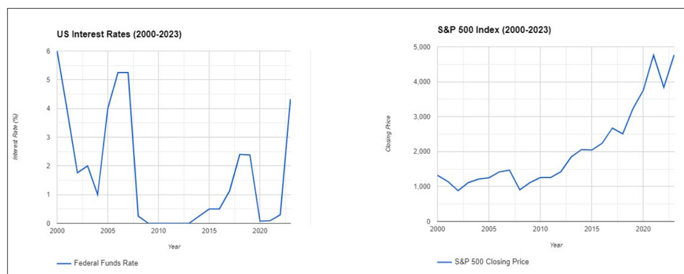


**Figure 1: US Interest Rates vs S&P 500 Index (2003-2023)**

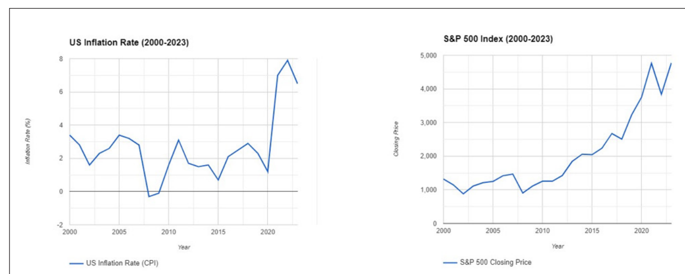


**Figure 2:** US Inflation Rate (CPI) vs S&P 500 Index (2003-2023)

**Strong Stock Performance Despite Rising Rates**

In 2023, the S&P 500 gained 26.29% despite significant interest rate hikes by the Federal Reserve. This rally was attributed to several factors, including:

- **Strong Corporate Earnings:** Companies continued to report robust earnings, defying recession fears and justifying higher valuations.
- **Investor Optimism:** Positive sentiment about the economic recovery and future earnings growth fueled buying despite rising rates.
- **Dominance of Growth Stocks:** The rally was primarily driven by technology and other growth stocks, which are less sensitive to interest rate changes compared to value stocks.

**Delayed Market Reaction**

While there was an initial correction in 2022 when rates started rising, the full impact on stock prices may not have been immediate. Some argue that the market is anticipating future rate cuts, leading to a delayed response.

**Role of Fiscal Policy**

Expansionary fiscal policies by the government, despite rising rates, might have injected liquidity and supported economic activity, indirectly benefiting stocks.

**Global Liquidity**

Abundant global liquidity due to quantitative easing by central banks worldwide might have offset some of the negative effects of rising rates on stocks.

**Investor Behavior**

Increased retail investor participation, often driven by short-term trading strategies and less focused on traditional valuation metrics, may have contributed to the disconnect between rates and stock prices.

**Anomalies in the Relationship between Inflation and US Stocks in Recent Years**

The historical relationship between inflation and US stocks is more complex than the inverse relationship between interest rates and stocks. While moderate inflation can sometimes be seen as positive for stock prices, high and persistent inflation usually creates challenges.

However, recent years have witnessed some anomalies in this dynamic

**Strong Stock Performance Despite High Inflation**

In 2023, the S&P 500 gained 26.29% despite inflation reaching a 40-year high in the US. This performance can be attributed to several factors:

- **Strong Earnings Growth:** As with the interest rate anomaly, strong corporate earnings outweighed inflation concerns for many investors.
- **Investment Alternatives:** With low bond yields and other fixed-income investments offering limited returns, stocks remained relatively attractive even with inflation.
- **Discounting Future Cash Flows:** While inflation erodes the value of future earnings, some argue that the market might have already priced in expected inflation, leading to a muted impact on valuations.

**Sectoral Differences**

Certain sectors, like energy and materials, have benefited from rising inflation due to increased commodity prices. Conversely, inflation can negatively impact consumer discretionary stocks as purchasing power decreases.

**Inflation Expectations**

If investors believe inflation is temporary or manageable, they might be less likely to react harshly to short-term price increases. However, persistent inflation above expectations can trigger market corrections.

**Central Bank Action**

The Federal Reserve's response to inflation is crucial. Timely and effective rate hikes can combat inflation but also risk slowing economic growth, potentially impacting stock prices.

**Global Factors**

Global economic conditions and commodity prices can significantly influence inflation and its impact on US stocks.

**Performance of US AI and Technology Stocks in Recent Years**

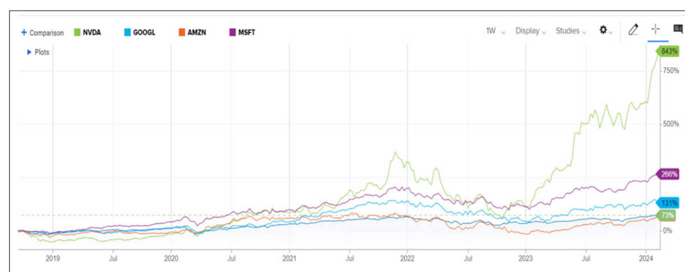


**Figure 3:** Percentage Gain of S&P 500 Vs NVDA, GOOGL, AMZN and MSFT

Since 2020, both AI and technology stocks have generally outperformed the broader market (S&P 500). Major technology companies like Nvidia (NVDA), Apple, Microsoft, Amazon, and Google witnessed their stock prices skyrocket during this timeframe, with some exceeding 100% gains. AI-focused ETFs like BOTZ and ROBO have yielded significant returns, with BOTZ returning 189% and ROBO returning 135% between 2020 and 2023. Similarly, some AI-focused indices, like the Global X Artificial Intelligence & Technology ETF (ARKG), surged over 300% during the same period [1-6].

These significant revenue and earnings growth in AI and technology companies are mainly fueled by:

- **Increased Adoption of AI Technology:** Companies across various industries are increasingly adopting AI solutions for automation, data analysis, and decision-making, driving demand for AI products and services.
- **Pandemic Tailwinds:** The COVID-19 pandemic accelerated digital transformation, propelling the demand for AI and cloud computing technologies.
- **Innovation and Disruption:** Technology companies remain at the forefront of innovation, constantly developing new products and services, attracting investor interest.
- **Growth of Cloud Computing:** Cloud computing provides the infrastructure and scalability needed for AI development and deployment, facilitating wider adoption of these technologies.
- **Global Reach and Scalability:** Many AI and technology companies have global reach and scalability, providing potential for sustained growth.
- **Evolving Technological Landscape:** Advancements in areas like artificial neural networks, natural language processing, and machine learning have unlocked new possibilities for AI applications, further boosting the industry's potential.

## Conclusion

The anomalies witnessed in the relationship between interest rates, inflation, and US stocks in recent years serve as a reminder that the financial landscape is constantly evolving. While historical correlations provide valuable insights, they cannot solely predict future behavior in a dynamic market environment. The factors analyzed in this paper, including strong corporate earnings, alternative investment options, investor behavior, and global influences, have likely contributed to the observed deviations.

However, it is crucial to acknowledge that these explanations represent potential contributing factors, not definitive answers. The future trajectory of these relationships hinges on various uncertainties, including the effectiveness of central bank policies in managing inflation, the evolution of the global economic landscape, and the ever-changing nature of investor behavior.

While the anomalies might present significant challenges for traditional valuation models, they also offer opportunities for deeper learning and the development of more nuanced investment strategies. By acknowledging the limitations of historical correlations and embracing the dynamic nature of financial markets, investors can be better equipped to navigate the complexities of the current environment and make informed decisions in the face of unforeseen anomalies.

This paper's exploration of these anomalies serves as a stepping stone for further research and analysis. As the financial landscape continues to evolve, ongoing investigation is crucial to understanding the intricate interplay between macroeconomic variables and asset valuation. By building upon these insights, we can strive to create a more comprehensive understanding of the market dynamics shaping the future of investing.

This conclusion emphasizes the ongoing uncertainty, importance of continuous learning, and the value of ongoing research in understanding the evolving financial landscape. You can also personalize it further by adding specific takeaways from your paper or emphasizing certain angles you explored in your analysis.

## Potential Extended Future use Cases

This paper can serve as a foundation for further research and analysis in several directions:

1. **Quantitative Analysis:** Conduct in-depth statistical analysis to quantify the strength and significance of the observed anomalies, potentially utilizing different timeframes and asset classes for comparison.
2. **Scenario Modeling:** Develop scenario-based models to assess the potential impact of future changes in interest rates, inflation, and other relevant factors on US stock market performance.
3. **Behavioral Finance Integration:** Investigate the psychological factors influencing investor behavior in response to anomalies, potentially conducting surveys or experiments to gather data.
4. **Global Comparison:** Compare the observed anomalies in the US market with similar dynamics in other major economies, exploring potential similarities and differences.
5. **Policy Implications:** Analyze the implications of these anomalies for central bank policies and fiscal interventions, exploring potential adjustments to achieve economic stability and market efficiency.
6. **Investment Strategy Development:** Utilize the insights from this paper to develop more nuanced and adaptable investment strategies that account for evolving market dynamics and potential future anomalies.

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