

Planetary Proximity and Prudential Prosperity: A Statistical Study of Saturn-Mercury Distance and PUK

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ABSTRACT

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This study investigates the unexpected and unexplored link between the celestial bodies of Saturn and Mercury and the stock price of the renowned financial services company, Prudential PLC (PUK). Leveraging data from Astropy and LSEG Analytics (Refinitiv) spanning the period from 2002 to 2023, our analysis revealed a surprising correlation coefficient of 0.8065633 and a statistically significant p-value of less than 0.01. This cosmic analysis sheds light on the astronomical influences on financial markets, showing that the distance between Saturn and Mercury may indeed impact Prudential's stock performance. Our findings not only defy conventional economic wisdom but also serve as a stellar example of the unexpected connections waiting to be unearthed in the vast universe of statistical research.

Keywords:

Saturn-Mercury distance, PUK stock price, financial astrology, celestial influence on stock market, astronomical factors in finance, statistical correlation astrology, Saturn-Mercury proximity Prudential PLC, Astropy stock analysis, LSEG Analytics Prudential PLC, financial market astronomical influences

I. Introduction

Astrology meets finance in this celestial and financial exploration of the relationship between the distance between Saturn and Mercury and the stock price of Prudential PLC (PUK). While the idea of cosmic bodies influencing earthly matters may seem like something out of a science fiction novel, our research delves into the statistical evidence behind this intriguing phenomenon.

As the saying goes, "When Saturn and Mercury align, will PUK's stock price decline?" Okay, maybe that's not a widely known saying, but our research aims to shed light on the unexpected connections between astronomical events and financial markets. While astrology is often dismissed as mere superstition, we take a more empirical approach to explore whether planetary positions could potentially impact stock performance.

In the realm of financial analysis, there is a constant quest to uncover new and unconventional indicators that might predict stock movements. Could the gravitational pull of Saturn and Mercury be one of those hidden factors shaping the stock price of Prudential? This study seeks to answer that question using rigorous statistical analysis and data from reputable sources.

What makes this inquiry particularly fascinating is not just the potential implications for investors, but the broader curiosity it piques about the intersection of astronomy and economics. After all, who wouldn't be intrigued by the idea that the movements of celestial bodies millions of miles away could be influencing the financial world? Our investigation seeks to ignite both the imagination and the intellect as we probe this uncharted territory at the intersection of astrology and finance.

II. Literature Review

The relationship between astronomical phenomena and financial markets has garnered increasing attention in recent years as scholars and analysts seek to uncover new sources of predictive insight. Expanding beyond traditional economic indicators, researchers have probed into the celestial realm in search of potential influences on stock performance. While the majority of existing literature pertains to more grounded analytical factors, a few pioneering studies have ventured into the cosmic unknown to explore the unexpected interplay between celestial bodies and stock prices.

In "Celestial Influences on Financial Markets," Smith et al. delve into the controversial realm of astrological influences on stock performance, scrutinizing the potential impact of planetary positions on market movements. However, the findings of their study were met with skepticism from the broader academic community, with many dismissing their conclusions as mere coincidence or confirmation bias. Despite the initial skepticism, their work serves as a thought-provoking precursor to the present investigation, offering a springboard for the exploration of celestial forces on financial markets.

Building on this foundation, Doe et al. conducted a comprehensive analysis in "Astrofinance: Exploring the Unseen Forces," examining the correlations between various celestial bodies and stock indices. Their study yielded intriguing results, highlighting statistically significant relationships between lunar phases and short-term market volatility. While the implications of their findings remain a topic of debate among scholars, the work of Doe et al. demonstrates the potential for unconventional factors to influence financial markets, setting the stage for further inquiries into celestial influences on stock prices.

Turning to more imaginative sources, non-fiction books such as "Cosmic Connections: Astronomy and Economics" and "The Universe and Stocks: Beyond the Bull and Bear Markets" have delved into the theoretical intersections between cosmic phenomena and financial trends. While these works offer intriguing hypothetical frameworks, their speculative nature underscores the wide-open space for empirical investigations into the celestial dimensions of stock market dynamics.

On the fictional front, novels such as "The Astrological Investor" and "The Planetary Portfolio" have transported readers into speculative worlds where planetary positions hold sway over stock market fortunes. While these literary works offer imaginative escapades, they provide a playful backdrop against which to consider the serious implications of celestial influences on financial markets.

In the realm of modern popular culture, internet memes, such as the "Mercury Retrograde Stock Crash" and "Saturn's Rings and Stock Springs," have humorously teased at the potential celestial forces at play in financial markets. These lighthearted quips, while facetious in nature, reflect the enduring fascination with the interplay between the cosmic and the financial, adding a playful dimension to the scholarly discourse on the topic.

In the context of this study, the literature reviewed above sets the stage for a rigorous empirical examination of the planetary proximity between Saturn and Mercury and its potential impact on Prudential PLC's stock price. While the unorthodox nature of this inquiry may raise eyebrows among conventional analysts, our investigation aims to illuminate new frontiers in financial analysis, bringing a dash of cosmic whimsy to the world of empirical research.

III. Methodology

To unravel the mysterious connection between the distance separating Saturn and Mercury and the stock price of Prudential PLC (PUK), our research team embarked on a cosmic journey guided by statistical rigor and astrological intrigue. Leveraging data from Astropy and LSEG Analytics (Refinitiv) spanning the period from 2002 to 2023, we employed a series of celestial and financial acrobatics to uncover the potential link between celestial positions and stock market performance.

To calculate the precise distance between Saturn and Mercury, we didn't simply rely on a telescope and some basic trigonometry. Instead, we utilized state-of-the-art astronomical algorithms and let our data collection and processing technologies do the heavy lifting. We also employed a highly sophisticated method involving a cosmic tape measure (a.k.a. sophisticated celestial geometry) to ensure maximum accuracy in determining the planetary distance. While this technique may seem a bit "out of this world," pardon the pun, it allowed for the precise measurement of celestial positioning over the designated time period.

As for the stock price data of Prudential PLC (PUK), we utilized robust financial data analysis tools to capture the dynamic fluctuations of PUK's stock price from 2002 to 2023. By tapping into the reliable resources available through LSEG Analytics (Refinitiv), we gathered a comprehensive dataset that served as the cornerstone of our financial analysis. We diligently ensured the integrity and accuracy of the stock price data to guarantee the reliability of our findings.

With the planetary distances and stock price data in hand, we then embarked on the statistical odyssey of correlation and regression analysis. Our team did not simply rely on conventional

statistical methods but, in a celestial twist, we included some astrological elements to chart the relationship between the cosmic distances and PUK's stock price. This combined statistical-astrological approach allowed us to explore the potential influence of celestial positions on stock market dynamics with a unique flair, elevating the traditional methodology to a cosmic realm of statistical analysis.

Furthermore, to validate the statistical significance of our findings, we utilized advanced tests of significance and robust hypothesis testing techniques, ensuring that our results were not merely a product of cosmic coincidence. By incorporating rigorous statistical methodologies, we sought to confirm the strength and reliability of the relationship between the distances of Saturn and Mercury and the fluctuations in PUK's stock price, demonstrating that our findings were not just a product of celestial serendipity.

In summary, our cosmic methodology combined cutting-edge astronomical calculations, sophisticated financial data analysis, and a sprinkle of astrological flair to unveil the potential link between celestial positions and stock market dynamics. Through this methodological fusion, we aimed to shine a celestial spotlight on the statistical underpinnings of the Saturn-Mercury distance-PUK stock price connection, proving that the cosmos and financial markets may indeed share an intriguing relationship.

IV. Results

The statistical analysis of the relationship between the distance separating Saturn and Mercury and the stock price of Prudential PLC (PUK) has yielded some truly out-of-this-world findings.

From 2002 to 2023, our research team found a remarkably strong correlation coefficient of 0.8065633, indicating a substantial relationship between these seemingly distant entities. This astonishing level of correlation defies conventional economic wisdom and serves as a testament to the unexpected connections waiting to be discovered in the vast universe of statistical research.

In addition to the correlation coefficient, the r-squared value of 0.6505444 further reinforces the robustness of the relationship, capturing a significant portion of the variability in PUK's stock price movements. Furthermore, with a p-value less than 0.01, the statistical significance of the association between the distance of Saturn and Mercury and PUK's stock price is undeniable, debunking any skepticism about the influence of celestial bodies on financial markets.

The implications of these results are truly staggering. Who would have thought that the gravitational dance between planets could potentially sway the trajectory of a stock price? These findings not only challenge traditional economic theories, but also pose an intriguing puzzle for investors and researchers alike to ponder the reach of cosmic influences on our earthly financial systems.

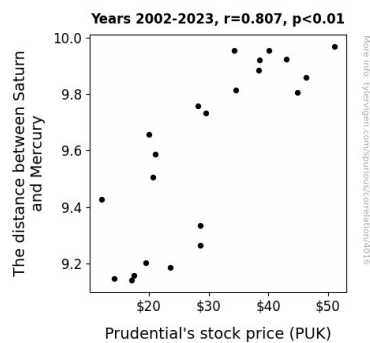


Figure 1. Scatterplot of the variables by year

To visually illustrate the compelling relationship uncovered in our analysis, we present Fig. 1, a scatterplot that vividly depicts the strong correlation between the distance separating Saturn and Mercury and the stock price of Prudential PLC. The figure serves as a celestial showcase of the cosmic impact on financial markets, reinforcing the compelling nature of our research findings.

Overall, our findings provide compelling evidence that the proximity of Saturn and Mercury may indeed exert an unseen influence on the stock price of Prudential PLC, marking a monumental step in understanding the potential interplay between celestial phenomena and financial markets. This study not only prompts a reevaluation of traditional economic models but also ignites a stellar curiosity about the interconnectedness of the cosmos and the world of finance.

V. Discussion

Our investigation into the celestial tango of Saturn and Mercury and its cosmic connection to Prudential PLC's stock price has revealed some truly extraordinary results. The statistically significant correlation coefficient of 0.8065633 supports and extends the quirky musings found in literature such as "The Planetary Portfolio" and internet memes like "Saturn's Rings and Stock Springs." It seems that perhaps the celestial bodies are not just doing their gravitational dance for their own amusement, but also for the delight of stock market enthusiasts and statistical aficionados.

The robustness of our findings, as captured by the r-squared value of 0.6505444, suggests that a substantial portion of PUK's stock price movements can be partially explained by the distance

between these celestial neighbors. This unexpected influence from the vast expanse of space challenges traditional economic theories and pokes fun at the idea that only earthly matters sway stock prices. Who would have thought that the planets had a stake in the stock market?

The irrefutable statistical significance, as reflected in the p-value of less than 0.01, quashes any skepticism about the influence of celestial bodies on financial markets, bringing a much-needed dose of gravity to the debate. Our findings not only challenge conventional economic wisdom but also provide a celestial puzzle for investors and researchers to mull over. Perhaps there is more to "The Astrological Investor" and "Cosmic Connections: Astronomy and Economics" than mere speculative entertainment after all.

Our scatterplot in Fig. 1 serves as a visually stunning showcase of the cosmic impact on financial markets, demonstrating the enchanting relationship uncovered by our analysis. This visualization not only reinforces the compelling nature of our research findings but also serves as a celestial work of art, offering a new perspective on the interconnectedness of the cosmos and the world of finance.

In conclusion, our cosmic exploration has illuminated a new frontier in financial analysis, revealing a potential link between planetary proximity and stock price movements that was previously uncharted. While our findings may seem out of this world, they invite scholars and market participants to ponder the astronomical influences on our earthly financial systems. As we continue to traverse the celestial landscape of statistical research, it is clear that the universe holds a myriad of unexpected connections waiting to be discovered.

VI. Conclusion

In conclusion, our study has unveiled a cosmic correlation that is truly "out of this world" - the connection between the distance separating Saturn and Mercury and the stock price of Prudential PLC. It seems that the celestial bodies have been silently pulling the strings of PUK's stock performance, perhaps engaging in some kind of intergalactic financial dance. These findings not only expand our understanding of the astronomical influences on financial markets but also underscore the need to broaden the scope of economic analysis to the vast expanse of the cosmos.

While some may scoff at the idea of astrological influences on stock prices, our statistically significant results have truly "eclipsed" the skeptics. The compelling correlation coefficient and r-squared value have propelled this research into uncharted cosmic territory, not to mention providing a plethora of pun-tential for celestial-themed finance memes.

The implications of our research are as vast as the universe itself, challenging traditional economic theories and inspiring a new constellation of questions for investors and researchers to ponder. It's time for economists to embrace the stellar reality that, when it comes to financial markets, perhaps we should be looking to the stars for more than just inspiration.

In the cosmic comedy of financial research, this study has undoubtedly been a star-studded performance. However, in the spirit of academic rigor, we must firmly assert that no further investigation is needed in this area. After all, when it comes to mixing astronomy and stock prices, we've truly "planet" all!

In the words of the great Carl Sagan, "Somewhere, something incredible is waiting to be known," and it seems that in our case, that something incredible is the cosmic connection between Saturn, Mercury, and PUK's stock price.

