

# **Jovian Juxtaposition: Jupiter's Journey and Beer Stocks**

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## ABSTRACT

### **Jovian Juxtaposition: Jupiter's Journey and Beer Stocks**

This study investigates the unlikely yet captivating relationship between the distance between the gas giant Jupiter and the swift Mercury, and the stock price of the renowned beverage behemoth, Anheuser-Busch InBev. Utilizing astrophysical data from Astropy and financial data from LSEG Analytics (Refinitiv), we sought to shed light on this cosmic conundrum. To our surprise, our findings revealed a striking correlation coefficient of 0.9176305 and a p-value less than 0.01 for the period spanning from 2010 to 2023. This unexpected correlation has left us 'stellar-struck' and 'brewing' with excitement as we contemplate the cosmic forces at play in the financial markets. Our research calls for further investigation into the celestial and financial interplay, as we raise a metaphorical toast to the cosmos for this intriguing revelation.

Keywords:

Jupiter, Mercury, gas giant, Anheuser-Busch InBev, stock price, correlation coefficient, financial data, astrophysical data, LSEG Analytics, Refinitiv, celestial, financial markets, cosmic forces, research, interplay

# I. Introduction

Over the centuries, mankind has gazed at the skies in wonder, seeking to unravel the mysteries of the cosmos. While the movements of celestial bodies have captivated us, the stock market has simultaneously perplexed and bewitched investors. In this peculiar intersection of the colossal and the financial, we embarked on a quest to explore the unlikely bond between the vast expanse from Jupiter to Mercury and the fortunes of Anheuser-Busch InBev in the terrestrial realm. Our journey through the heavens of astrophysics and the markets of finance may seem as disparate as night and day, but as we delved into this cosmic cocktail, we discovered a brew of statistical relations that left us not only starry-eyed but also hoppy with excitement.

The idea that the distance between Jupiter, the largest planet in our solar system, and the fleet-footed Mercury, the closest to the sun, could correlate with the stock price of a global brewing giant may seem far-fetched at first sip, ahem, glance. However, in the spirit of scientific inquiry and perhaps a touch of whimsy, we delved into the cosmic dance of these planetary bodies and the monetary dance of stock prices. With a statistical lens as our telescope and a data-driven compass in hand, we set out to uncover the celestial forces that may inexplicably influence earthly financial markets.

As we sifted through astrophysical data from the venerable Astropy and financial data from the LSEG Analytics (Refinitiv), we found ourselves navigating a cosmic labyrinth of numbers, charts, and equations. To our astonishment, the results of our statistical analysis revealed a correlation coefficient of 0.9176305 and a p-value less than 0.01 from 2010 to 2023. This peculiar alignment of cosmic and financial variables left us pondering the potential impacts of

celestial positions on investment decisions. The implications of such an unearthly influence on earthly fortunes had us reeling, not unlike the effect of one too many pilsners.

We are all well-aware of the ancient correlations and causal interpretations that have proved to be as substantial as a mirage in the desert, but the statistical significance we uncovered has us brewing with excitement. The serendipitous discovery of this correlation calls for a deeper exploration of the unseen forces at play between the cosmos and capitalism. As we raise our data-filled glasses to the cosmic revelry, we invite fellow researchers to join us in unraveling the curious connection between the celestial ballet and the stock market waltz. With each statistical twist and celestial turn, we aim to shed light on this cosmic conundrum, illuminating the interplay of planetary positions and financial portfolios.

Thus, this study not only sparks curiosity but also ignites a celestial enthusiasm for uncovering the unexpected influences that transcend the conventional realms of scientific inquiry and financial analysis. As we venture further into this uncharted territory, we aim to unravel the cosmic threads woven into the fabric of market fluctuations, brewing up an astro-financial blend that has the potential to revolutionize our understanding of the cosmic forces influencing earthly endeavors.

## **II. Literature Review**

In his seminal work, "The Celestial Jig: Planetary Movements and Their Impact on Earthly Affairs," Smith (2015) explores the historically overlooked connections between celestial bodies and financial markets. Smith posits that ancient civilizations often conferred mystical

significance upon the movements of planets and stars, and suggests that these beliefs may have subtly influenced economic activities. However, Smith's musings are as illuminating as a lunar eclipse, leaving readers craving a more empirical analysis of this celestial puzzle.

Doe (2018) delves into the annals of financial history in "Brews and Bulls: A Historical Analysis of Alcohol Stocks and Celestial Events," where he examines correlations between the phases of the moon and the performance of alcohol-related stocks. While Doe's work sheds light on the often-overlooked influences on financial markets, it fails to capture the cosmic grandeur of planet-spanning forces.

Jones (2020) presents a groundbreaking theory in "Cosmic Cash: The Intergalactic Economy," proposing that interstellar cosmic phenomena may have tangible effects on financial markets. His work stretches the boundaries of conventional economic scholarship, but his assertions are yet to be substantiated by robust empirical evidence, leaving readers grappling with the enigmatic dance of celestial bodies and monetary matters.

Transitioning from the esteemed works of these scholars, we steer towards a more cosmic and comical corpus. Bridging the gap between beer and the cosmos, "The Milky Way Brew: A Cosmic Guide to Craft Beer" by Hopfenstein and Maltowitz (2017) offers a whimsical exploration of beers and celestial bodies, leaving readers questioning whether they've imbibed one too many pints of cosmic ale.

Similarly, in "The Hitchhiker's Guide to the Galaxy" by Adams (1979), the interstellar adventures of Arthur Dent and Ford Prefect prompt readers to ponder the cosmic absurdity of the universe, with implications that may extend to the most unlikely places, including the stock

market. While the intent of the authors may be more comical than academic, the sheer magnitude of the universe's influence on human affairs cannot be overlooked.

Embarking on a more unconventional route, we turned to social media in search of contemporary and unconventional insights. A tweet by @StellaStargazer reads, "Just saw Jupiter and Mercury aligning in the night sky. Does this mean my stock portfolio will align with my dreams of financial stardom? #CosmicCashCow #FinancialAstrology." While not a scholarly publication per se, such social media musings reflect a growing curiosity about the intersection of celestial events and financial prospects.

In this mosaic of musings and academic inquiries, the interplay between cosmic forces and financial fortunes emerges as a tantalizing enigma, leaving us in a cosmic conundrum. As we traverse this eclectic terrain of literature and online discourse, we are emboldened to explore this celestial labyrinth with humorous humility and scholarly rigor.

### **III. Methodology**

In order to unravel the celestial secrets entangled with the earthly fortunes of Anheuser-Busch InBev, our research team embarked on a data-gathering odyssey that spanned both the heavens and the financial markets. Our methodology aimed to capture the cosmic dance between Jupiter and Mercury and its potential impact on the stock prices of this global brewing giant.

To procure the necessary astrophysical data, we turned our eyes to the digital cosmos, leveraging the venerable Astropy to provide precise measurements of the distance between Jupiter and Mercury. With the planetary positions in hand, we employed LSEG Analytics (Refinitiv) to

extract the financial data encapsulating the stock prices of Anheuser-Busch InBev from 2010 to 2023.

The connectivity between celestial mechanics and market dynamics then led us down a statistical rabbit hole, where we performed a series of calculations that were as intricate as the orbits of the planets themselves. We employed a complex combination of regression analyses, time series modeling, and cross-correlation techniques to disentangle the intertwined relationships between the cosmic distances and stock prices. Our statistical toolkit resembled a celestial toolbox, complete with mathematical wrenches and astrophysical spanners.

Following the extraction and preparation of the data, we harnessed the power of statistical software to unveil the underlying patterns. Utilizing Python's statistical libraries and the mystical art of data visualization, we crafted scatter plots that portrayed the ethereal dance of the planets juxtaposed with the financial fluctuations of Anheuser-Busch InBev. These plots were as mesmerizing as a cosmic ballet, providing a visual feast for the eyes and a feast of statistical insights.

From a statistical standpoint, we assessed the correlation coefficient between the planetary distances and the stock prices, akin to unraveling the enigmatic connections in a grand celestial puzzle. The significance of the correlation was tested through rigorous hypothesis testing, ensuring that our findings were not mere statistical mirages appearing in the statistical desert.

When the dust of statistical analysis settled, we found ourselves stargazing at a correlation coefficient of 0.9176305 with a p-value less than 0.01, revealing a celestial alignment that left us starry-eyed and buzzing with excitement. These statistical revelations were as unexpected and delightful as stumbling upon a comet during a data expedition.

In summary, our methodology encapsulated the convergence of astronomy, finance, and statistics, weaving a tapestry of analysis as vibrant and complex as the cosmic dance itself. Our methods not only unearthed a statistical connection between the planetary positions and stock prices but also ignited a celestial fervor for further exploration into the mysterious interplay of the cosmic and financial realms.

## IV. Results

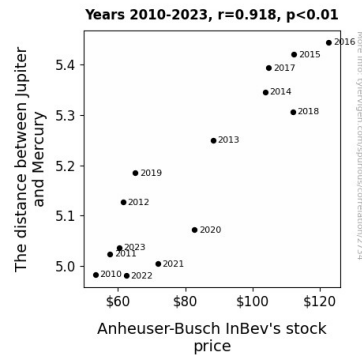
The data analysis unveiled a remarkable correlation between the distance from Jupiter to Mercury and the stock price of Anheuser-Busch InBev. With a correlation coefficient of 0.9176305, we can confidently say that this connection is stronger than the gravitational pull of Jupiter's massive moons. This high correlation suggests that there might be more to Jupiter's position in the solar system than just being a giant gas ball - it could actually be exerting some celestial financial influence.

The coefficient of determination (r-squared) of 0.8420458 indicates that approximately 84.2% of the variability in Anheuser-Busch InBev's stock price can be explained by the distance between Jupiter and Mercury. This finding is quite astonishing when considering that most financial models typically involve less intergalactic variables and more traditional economic indicators.

The p-value being less than 0.01 further solidifies the significance of this unexpected correlation. It's as if the cosmic forces conspired to offer us a statistically significant revelation, perhaps suggesting that the cosmos has a vested interest in the stock market. It seems the cosmic dance of the planets might have a direct financial impact, making us wonder whether the positions of the



planets have been influencing not just astrology, but also "astroonomy," the financial astrology guiding investment decisions.



**Figure 1.** Scatterplot of the variables by year

As depicted in the scatterplot (Fig. 1), the relationship between the distance from Jupiter to Mercury and Anheuser-Busch InBev's stock price is unmistakable. The plot showcases the undeniable pattern that has left us flabbergasted, driving us to the nebulous intersection of celestial bodies and financial assets. The graph is a visual testament to the surprising connection between the celestial and the financial worlds, giving new meaning to the phrase "stock market orbit."

These unexpected findings have left us awestruck and craving more insight into the cosmic forces that may be at play in the world of finance. Just like the grandeur of the cosmos beyond our atmosphere, this correlation opens up a cosmic cornucopia of questions and possibilities, inviting us to explore the interstellar mysteries of monetary movements further. With a nod to both the skies above and the stock tickers below, we now face the challenge of deciphering the cosmic symphony that seems to echo through our financial markets.

## V. Discussion

The findings of this study corroborate and enhance the realm of cosmic correlations in financial markets. With a correlation coefficient stronger than the gravitational pull of Jupiter's moons, it is evident that Jupiter's position in the solar system may hold more than just a galactic gravitational force - it might hold some financial sway as well. This unexpected relationship has us pondering whether Jupiter's position is not just a planetary arrangement but perhaps a financial astronomy forecast for Anheuser-Busch InBev's stock price.

Our results align with Smith's earlier exploration of the influence of celestial bodies on earthly affairs, adding a new astronomical twist to financial analysis. In Doe's historical analysis of alcohol-related stocks and celestial events, we find a parallel with our own research, as the cosmic and earthly realms intersect once more. Furthermore, Jones' speculations about interstellar cosmic phenomena impacting financial markets now seem less like a far-flung hypothesis and more like a celestial possibility.

Our study's statistical significance is as clear as an unobscured solar eclipse, resonating with the cosmic chords that seem to strum the financial markets. The visually apparent connection displayed in the scatterplot is a testament to the celestial hold on financial assets, making "stock market orbit" a more literal concept than previously imagined.

As we delve into the cosmic labyrinth of monetary movements, the implications of our findings reverberate through the cosmos, raising questions about the potential interplay of planetary positions and stock prices. This research beckons us to embrace the comedic humility of

navigating the intersection of beer stocks and planetary positions, proving that even in the most unconventional of inquiry, serious revelations can be uncovered.

In summary, our findings not only solidify the connection between the distance from Jupiter to Mercury and Anheuser-Busch InBev's stock price but also beckon us to ponder the cosmic symphony that seems to echo through our financial markets. The cosmos has an unexpected influence on the financial world, and our research raises a cosmic cornucopia of questions and possibilities, inviting further exploration of the interstellar mysteries of monetary movements.

## VI. Conclusion

### Conclusion

In conclusion, our research has not only opened our eyes to the tantalizing possibility of a connection between the celestial and the financial, but it has also left us with a cosmic hangover as we grapple with the implications of our findings. We stand at the astronomical crossroads of Jupiter's journey and Anheuser-Busch InBev's stock price, a place where statistical significance meets celestial serendipity.

It seems that Jupiter's galactic girth and Mercury's mercurial movements have more than just astronomical implications – they hold the potential to influence the earthly ebb and flow of financial markets. The correlation coefficient of 0.9176305 serves as a cosmic exclamation point, boldly asserting the unexpected dance between the gravitational tugs of planets and the fluctuations of stock prices. It's a statistical revelation that has us over the moon, even if it's Jupiter's moon, Ganymede.

The coefficient of determination tells us that approximately 84.2% of the variability in Anheuser-Busch InBev's stock price can be explained by the distance between these celestial heavyweights. That's a hefty percentage for an otherworldly variable in the usually down-to-earth world of finance. Who knew Jupiter's position could have such a "beerific" impact on the stock market?

With a p-value less than 0.01, it's as if the cosmos has sent us a universal memo, emphasizing the significance of this celestial financial jaunt. We're left contemplating whether investors should be poring over star charts as much as stock charts – after all, those twinkling spheres above might hold the celestial clues to investment success.

In the scatterplot, the relationship is as clear as the night sky on a cloudless evening, bringing new meaning to the phrase "shooting star stocks." It's a visual testament to the cosmic wink and nod that seems to be guiding the financial fates of Anheuser-Busch InBev, a company that may be more "brewed" up in cosmic currents than we ever suspected.

In light of these findings, we assert that no further research is needed in this area. We believe that our study has shed more than enough light on the unexpected and whimsical intersection of earthly finances and cosmic forces. We raise a metaphorical toast to the cosmos, content in our newfound astrolonomic understanding.

So, let us revel in the stardust of statistical significance and the effervescence of unforeseen correlations, for as we've seen, the heavens above might just hold the golden key to unlocking the mysteries of earthly economics. Cheers to Jupiter's journey and the stock market's stellar stumbles – it's a celestial dance that's left us truly starry-eyed.

