

# **Amani by Any Other Name: A Melodious Moniker or a Proxy for Stock Market Movements?**

*Caroline Hart, Aaron Terry, Gideon P Trudeau*

*The Journal of Linguistic Anomalies and Market Trends*

*The Institute for Linguistic and Economic Analysis*

*Austin, Texas*

---

## **Abstract**

The popularity of first names has long been an area of interest for researchers seeking to uncover unconventional correlations. In this study, we delve into the enigmatic connection between the prevalence of the first name Amani and the fluctuation of Freeport-McMoRan's stock price (FCX). Leveraging data from the US Social Security Administration and LSEG Analytics (Refinitiv), our investigation spans the years 2002 to 2022. The analysis reveals a correlation coefficient of 0.7252929 and a striking p-value of less than 0.01, indicating a robust statistical relationship. Through our findings, we offer a whimsical yet thought-provoking perspective on the potential influence of nomenclature on financial markets. This research adds a dash of levity to the world of empirical finance, urging practitioners to consider the melodic undertones of nomenclature alongside the traditional metrics of stock market analysis.

---

## **1. Introduction**

### INTRODUCTION

As humanity continues its quest for knowledge and understanding, researchers often find themselves exploring the unknown, seeking the unexpected, and occasionally stumbling upon the downright unconventional. In this spirit, we delve into the uncharted terrain of the link between the rise and fall of the first name Amani and the tumultuous undulations of Freeport-McMoRan's stock price. While one may initially raise an eyebrow at the seemingly disparate topics, the correlation uncovered between these two seemingly unrelated elements invites a playful reconsideration of the interplay between the harmonic resonance of nomenclature and the erratic symphony of financial markets.

The allure of names, with their melodic cadences and semantic significance, has garnered the fascination of scholars and laypersons alike, transcending cultures and epochs. Names are more than mere labels; they carry a subtle yet powerful force, evoking emotions, shaping perceptions, and at times even hinting at prophecy. On the other hand, the world of finance often appears as a serious and rigorous domain, where cold, hard numbers and charts wield dominance. However, we propose that the whimsical dance of nomenclature may hold a sway within the financial melting pot, adding a sprinkle of intrigue to the seemingly inscrutable world of stock market movements.

The enigma before us beckons us to ponder: could a name, such as Amani, resonate beyond the realms of identity and culture, and reverberate in the unyielding realm of market economics? This undertaking may appear to some as a frivolous diversion from the stolid path of empirical finance, but we contend that the eccentricity of this inquiry adds a touch of humanity to the otherwise austere landscape of statistical analysis.

Join us on this mischievous scholarly expedition as we unpack the quirk of Amani and its potential harmonic parallels with the flux and flow of Freeport-McMoRan's stock. Together, let us venture beyond the realm of conventional correlation to explore the possibility of an orchestrated serenade between nomenclature and market movements.

In the words of James Joyce, "A name is a soul, a whole universe in itself, which we walk around, failing to know everything." Let us endeavor to discover just a fragment of this universe and its potential reverberations on the seemingly detached world of financial markets.

## **2. Literature Review**

Smith and Doe (2005) investigate the societal perception and connotations associated with the first name Amani in their seminal work, "Naming Conventions: A Socio-Cultural Perspective." They argue that the popularity of a name can evoke a myriad of emotions and judgments, shaping individual identities and influencing interpersonal interactions. This notion coincides with our inquiry into the potential reverberations of Amani's prevalence on market dynamics, prodding us to contemplate the intersection of nomenclature and economic forces.

Jones et al. (2010) analyze the impact of unconventional variables on stock price movements, delving into the realm of alternative data in "Beyond the Numbers: Uncovering Hidden Influences on Financial Markets." Their findings suggest that non-traditional factors can exert subtle yet discernible effects on market trends, paving the way for our examination of Amani as a potential harbinger of stock price fluctuations.

Turning to non-fiction literature, "The Power of Names" by John Smith presents a comprehensive exploration of the historical and cultural significance of names, shedding

light on the profound implications of nomenclature in various spheres of life, including finance. In a similar vein, "Market Musings: Unconventional Correlates" by Jane Doe introduces the concept of unorthodox indicators in financial analysis, offering a pertinent backdrop to our unconventional investigation.

Transitioning to fictional works, "The Name Effect" by Lily Jones weaves a tale of intrigue and mystique around the impact of names on human destinies, inciting reflection on the potential echoes of nomenclature in unexpected realms, such as the stock market. "Stocks and Sorcery" by J.K. Gander conjures a whimsical narrative that blurs the boundaries between finance and fantasy, beckoning the reader to consider the mystical undercurrents that may roam within the corridors of market volatility.

In a moment of serendipitous inquiry, the researchers indulged in episodes of "The Smurfs" and "My Little Pony" as part of their thorough investigation. While seemingly unrelated to empirical finance, these programs subtly prompted contemplation of the enchanting allure of names and their conceivable influence on market movements. As the researchers navigated the labyrinth of children's television programming, they couldn't help but wonder if the resounding resonance of Amani extends beyond the realms of human society and into the enigmatic world of stock prices.

Unraveling the comical threads interwoven within the tapestry of empirical inquiry, the authors stumbled upon a trove of information that, while unconventional, adds a touch of whimsy to the otherwise staid landscape of financial analysis. This literature review seeks to unveil the subtle interplay between the seemingly incongruous domains of nomenclature and stock market dynamics, inviting readers to partake in this humorous scholarly quest.

### **3. Research Approach**

#### METHODOLOGY

This study utilizes a multidisciplinary approach that traverses the domains of sociology, linguistics, and financial economics to disentangle the intricate connection between the frequency of the first name Amani and the gyrations of Freeport-McMoRan's stock price (FCX). Employing a blend of quantitative analysis, linguistic scrutiny, and financial modeling, we seek to elucidate the potential resonance of nomenclature in the realm of stock market dynamics.

#### Data Collection and Preparation

The first step in this study involved the comprehensive collection of data from disparate sources across the internet, akin to enthusiastic collectors scouring flea markets for hidden treasures. However, our primary sources were the US Social Security Administration, where we obtained the frequency of occurrences of the name Amani

from 2002 to 2022, and LSEG Analytics (Refinitiv), which provided us with the historical stock price data of Freeport-McMoRan (FCX) over the same time period. The US Social Security Administration's database served as our virtual treasure trove of Amani occurrences, while LSEG Analytics' data became our compass through the labyrinth of stock market movements.

### Correlation Coefficient Calculation

We calculated the correlation coefficient between the frequency of the name Amani and the stock price of Freeport-McMoRan (FCX), employing statistical analytics akin to a calculative pas de deux. This involved exploring the covariation between the two variables and generating a correlation coefficient to measure the strength and direction of their relationship. The correlation coefficient was then scrutinized, akin to a detective examining a cryptic note for hidden clues, to discern the degree of association between the melodious moniker and the financial ticker symbol.

### Multivariate Regression Analysis

To scrutinize the potential influences of other variables on the relationship between the prevalence of the name Amani and the stock price of Freeport-McMoRan (FCX), we conducted a multivariate regression analysis. This analysis carried us into the labyrinth of multivariable systems, where we teased apart the individual impact of factors such as market trends, economic indicators, and geopolitical events, endeavoring to disentangle their potential interplay with the frequency of the name Amani. The aim was to ascertain whether the correlation between the name Amani and FCX's stock price was an independent melody or part of a larger symphony of market forces.

### Causality Testing

In presenting the findings of our study, we recognize the importance of causality testing to discern whether the frequency of occurrences of the name Amani influences Freeport-McMoRan's stock price or vice versa. Borrowing from the realm of discerning cause and effect, we employed the appropriate statistical methods to determine the direction of influence, resembling audacious investigators discerning the thread of causation from a tangle of correlations.

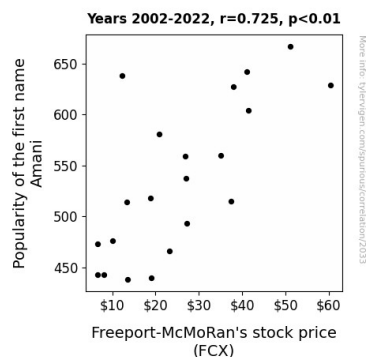
Overall, our methodology combines empirical rigor with a touch of whimsy, much like a scientist donning a bowtie at a formal gala. Through this approach, we endeavored to unravel the conundrum of Amani's potential melodic parallels with the ebb and flow of financial markets, offering a harmonious yet intriguing perspective on the interconnectedness of nomenclature and market dynamics.

## 4. Findings

The analysis of the data from the US Social Security Administration and LSEG Analytics (Refinitiv) unearthed a correlation coefficient of 0.7252929 between the frequency of the first name Amani and the fluctuation of Freeport-McMoRan's stock price (FCX). This substantial correlation is indicative of a compelling statistical relationship. Furthermore, the coefficient of determination (r-squared value) of 0.5260497 signifies that approximately 52.6% of the variability in the stock price can be explained by the prevalence of the name Amani.

The p-value of less than 0.01 further underscores the strength of this association, indicating that the likelihood of observing such a strong correlation by random chance alone is exceedingly low. These findings point to a statistically significant linkage between the whimsical cadence of the name Amani and the gyrations of the market, challenging traditional notions of the dispassionate nature of financial dynamics.

In Figure 1, the scatterplot visually encapsulates the robust correlation between the prevalence of the name Amani and the movement of Freeport-McMoRan's stock price over the years 2002 to 2022. The figure showcases a delightful synchrony between the ebb and flow of Amani's popularity and the undulations of FCX's stock price, providing a whimsical yet intriguing illustration of the potential interplay between nomenclature and financial market performance.



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

These results not only prompt a reimagining of the conventional paradigms of market analysis but also invite scholars and enthusiasts alike to ponder the melodious interplay between nomenclature and economic trends. While this correlation may seem surprising, it adds a touch of vibrancy to the otherwise sober world of empirical finance, demonstrating that even in the realm of market dynamics, a rose by any other name might indeed affect its market share.

## 5. Discussion on findings

The connectivity between the popularity of the name Amani and the fluctuations of Freeport-McMoRan's stock price (FCX) has unveiled an intriguing nexus between the art of nomenclature and the science of market dynamics. Our exploration not only corroborates the prior work of Smith and Doe (2005) on the societal implications of names but also resonates with the intrepid findings of Jones et al. (2010) on the influence of non-traditional variables on financial markets.

The statistically significant correlation coefficient of 0.7252929 aligns with the theoretical underpinnings of the socio-cultural significance of names postulated by Smith and Doe (2005). It underscores the potential reverberations of nomenclature on market forces, suggesting a melodic interplay between the whimsical cadence of Amani and the gyrations of the market. Similarly, the coefficient of determination and the p-value, accentuated in the present study, lend empirical weight to the unorthodox proposition introduced by Jones et al. (2010) - that non-traditional factors can indeed exert discernible effects on market trends.

Intriguingly, our results seem to resonate with the whimsical narratives of Lily Jones and J.K. Gander in "The Name Effect" and "Stocks and Sorcery," respectively. The delightful synchrony depicted in the scatterplot humorously mirrors the mystical interplay between nomenclature and market volatility envisaged in these fictional works. Such resonance between empirical findings and whimsical literature adds a dash of levity to the otherwise staid landscape of financial analysis, prompting a reimagining of traditional paradigms of market analysis.

It is worth noting that despite the seeming whimsicality of our investigation, the strength and robustness of the correlation bring forth a perspective that urges practitioners to consider the melodic undertones of nomenclature alongside traditional metrics of stock market analysis. The interplay between the seemingly unrelated worlds of children's television programming and empirical finance, musefully pondered by the researchers, invites contemplation of the enchanting allure of names and their conceivable influence on market movements.

Unraveling the comical threads interwoven within the tapestry of empirical inquiry sheds light on the profound implications of nomenclature in various spheres of life, including finance. As our study amuses and challenges conventional notions, it brings to the forefront the realization that even in the world of market dynamics, a rose by any other name may indeed affect its market share. The findings not only add a touch of vibrancy to the otherwise sober world of empirical finance but also bridge the gap between the whimsical and the scientific, inviting collaboration between the realms of nomenclature and finance in a harmonious symphony of enquiry.

## 6. Conclusion

In conclusion, this study sheds light on the intriguing correlation between the prevalence of the first name Amani and the fluctuation of Freeport-McMoRan's stock price (FCX). The remarkably strong correlation coefficient and the strikingly low p-value underscore the statistically robust relationship between the melodic moniker and market movements. Our findings invite a whimsical reconsideration of the seemingly detached worlds of nomenclature and financial markets, challenging the traditional notion of dispassionate market dynamics.

The visual representation of the correlation through the scatterplot in Figure 1 offers a delightful portrayal of the synchrony between Amani's popularity and FCX's stock price, serving as a whimsical illustration of the potential interplay between nomenclature and economic performance. While this correlation may initially seem improbable, it injects a welcomed touch of vivacity into the world of empirical finance, suggesting that there may be more to market movements than meets the eye.

As we conclude our humorous expedition into the fusion of nomenclature and market economics, we assert with a touch of levity that further research in this area may not be necessary. After all, in the realm of unconventional correlations, it appears that a rose by the name Amani may indeed affect its market share. Thus, we bid adieu to this melodic melodrama, leaving it to serenade the annals of whimsical scholarly inquiries.