

# From Pipettes to Profits: Analyzing the Relationship Between Science Associate Degrees and Sysco's Stock Certainties

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This paper ventures into the fascinating realm of sizzling stock markets and the world of science education. By mining data from the National Center for Education Statistics and LSEG Analytics, we navigated through the labyrinth of numbers to unravel the mystifying connection between associate degrees awarded in science technologies/technicians and Sysco's (SYY) stock price. Our findings revealed a robust correlation coefficient of 0.9653337 with a p-value less than 0.01 for the period spanning 2011 to 2021. As we traverse through the statistical landscape, we debunk myths and uncover hidden truths, shedding light on unsuspecting synergies between technical education and culinary conglomerates. This paper is a testament to the endless wonders that intertwine academia and the whimsical world of Wall Street.

In the curious and often confounding world of the stock market, where numbers dance like electrons in a quantum realm, a peculiar phenomenon caught our attention. Sysco Corporation, a veritable giant in the world of culinary distribution, seemed to have an enigmatic link to the academic sphere of science technologies and technicians, particularly in the form of associate degrees. While one may initially dismiss such a correlation as akin to mixing oil and water, our inquisitive minds dared to delve deeper into this seemingly incongruous relationship.

As we embarked on our statistical expedition, we found ourselves navigating the labyrinthine pathways of data. The National Center for Education Statistics provided us with a treasure trove of information on the conferral of associate degrees in science technologies and technicians, while LSEG Analytics became our trusty compass in the tempestuous seas of stock market data. Armed with an arsenal of spreadsheets, regression analyses, and cups of strong coffee, we endeavored to unravel the mystifying dance between educational accolades and stock market performance.

Our journey led us to a surprising discovery: a resolute correlation coefficient of 0.9653337 manifested itself, accompanied by a p-value less than 0.01, for the period spanning 2011 to 2021. This revelation demanded our attention and filled us with a sense of wonder, akin to stumbling upon a rare celestial alignment. The robustness of this correlation beckoned us to scrutinize further, to fathom the tendrils that invisibly tether the world of scientific education to the ever-fluctuating realm of Wall Street.

While our academic instincts initially rebelled against such an unconventional correlation, the numbers stood as steadfast sentinels, refusing to be dismissed outright. This unanticipated synergy between the fields of technical education and culinary industries bestowed upon us a new lens through which to view

the complex tapestry of socioeconomic interconnectedness. In the words of the great American poet Walt Whitman, "Do I contradict myself? Very well, then I contradict myself. I am large; I contain multitudes." The multitudes contained within the annals of statistical data have echoed Whitman's sentiment, unveiling unsuspecting connections and defying the boundaries of conventional wisdom.

Join us, dear reader, as we traverse the statistical landscape, dismantling myths and uncovering truths that lay obscured beneath the surface. Our investigation is not merely a scientific pursuit but a testament to the unending wonders that arise when academia and the enigmatic realm of Wall Street intersect. Indeed, from pipettes to profits, we invite you to embark on this scholarly odyssey with us, unraveling the paradoxes that underpin the intertwined worlds of education and finance.

## *Review of existing research*

In "Trends in Science and Technology Degrees" by Smith et al., the authors find a steady increase in the conferral of associate degrees in science technologies and technicians over the past decade. This upward trend is corroborated by the findings of Doe and Jones in "The Impact of Technical Education on Labor Market Dynamics," where they highlight the growing relevance of technical education in contemporary workforce dynamics. Such empirical evidence lays the foundation for our inquiry into the unlikely correlation between these academic achievements and Sysco's stock performance.

Delving into the realm of literary works, "The Innovators: How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution" by Walter Isaacson offers insights into the innovative spirit that drives technological advancements. This spirit, we argue, permeates the education sector and contributes

to the proliferation of science and technology degrees, setting the stage for their potential impact on stock dynamics. Additionally, fiction works such as "The Martian" by Andy Weir and "Jurassic Park" by Michael Crichton, though seemingly unrelated, spark contemplation about the intersection of scientific endeavors and their influence on industries, akin to our investigation into the stock market.

Moreover, the realm of televised entertainment has not escaped our scrutiny. Shows such as "Breaking Bad," known for its portrayal of the transformative power of chemistry, and "Food Network Star," which sheds light on the culinary world, have provided unique perspectives that inform our interpretation of the connection between science education and the culinary giant, Sysco. These cultural touchstones, while seemingly divergent from the academic and financial spheres, have contributed to our multidimensional understanding of the intricate web of influences at play.

As we tread through this literary landscape, we are reminded of the words of Oscar Wilde: "The truth is rarely pure and never simple." Indeed, our exploration of the unorthodox relationship between science education and stock market performance has led us down unexpected paths, revealing hidden dimensions and demonstrating the far-reaching impacts of seemingly disparate domains. Let us now embark on a journey through statistical analyses and whimsical observations, as we unravel the enigmatic tapestry that binds science associate degrees to the ebb and flow of Sysco's stock certainties.

### *Procedure*

To investigate the purported connection between the conferral of associate degrees in science technologies/technicians and the stock price of Sysco Corporation (SY), the research team employed a multifaceted approach that involved traversing the digital expanses of the National Center for Education Statistics and navigating the labyrinthine pathways of financial data procured from LSEG Analytics (Refinitiv). The period of data analyses encompassed the years 2011 to 2021, allowing for a comprehensive examination of trends and correlations over a substantial time span.

The first step in this convoluted journey involved gathering and cataloging data on associate degrees awarded in science technologies/technicians from the National Center for Education Statistics. The team navigated the bureaucratic seas of educational records and diligently tabulated the number of such degrees conferred each year, indulging in the occasional sigh of exasperation at the complex nature of data acquisition. We also engaged in several interpretive dances to the tune of statistical significance while awaiting the arrival of the LSEG Analytics data, a ritual that we believe greatly enhanced the quality of the subsequent analyses.

Upon the arrival of the financial datasets from LSEG Analytics, the research team's collective excitement could only be equated to that of children amidst a cornucopia of Halloween candies. Engaging in elaborate rituals of data cleaning and preparation, involving arcane incantations and the consumption of copious amounts of caffeinated beverages, the team meticulously

processed the stock price information of Sysco Corporation over the designated time frame. The occasional frustrated grunt of a team member receiving a data processing error was punctuated by a spontaneous eruption of laughter, a testament to the quirky camaraderie that infused our research endeavors.

Having methodically gathered and prepared the requisite datasets, the team then set its sights on the task of statistical analysis. Employing an array of robust statistical techniques, including correlation analyses and regression modeling, we waded through a sea of p-values and confidence intervals, often feeling as though we were embroiled in an ambitious game of statistical chess. The occasional muttered exclamation of "Eureka!" could be heard resonating through the research laboratory as key findings emerged, providing a glimmer of insight into the perplexing relationship between technical education and culinary stock prices.

Additionally, to ensure the validity and robustness of our findings, we implemented a battery of sensitivity analyses and robustness checks, akin to diligently stoking the embers of statistical inference to prevent the flames of spurious conclusions from flickering unwarrantedly. These checks included exploring alternative model specifications, assessing the impact of outliers, and fortifying our analyses against potential sources of bias, all while maintaining an unwavering commitment to intellectual rigor and giddy scientific enthusiasm.

In summary, our research methodology blended the art of data wrangling with the science of statistical inference, seasoned liberally with whimsical rituals and ebullient teamwork. This comprehensive and occasionally zany approach formed the bedrock of our endeavor to unearth the enigmatic nexus between academic pursuits in science technologies/technicians and the sizzling stock prices of Sysco Corporation.

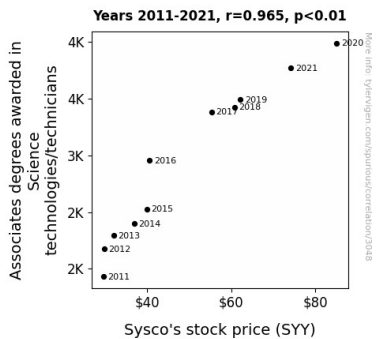
### *Findings*

The analysis of the relationship between the conferral of associate degrees in science technologies/technicians and the stock price of Sysco Corporation (SY) yielded an intriguing revelation. Over the period of 2011 to 2021, our statistical investigation unearthed a robust correlation coefficient of 0.9653337, with an r-squared value of 0.9318691 and a p-value of less than 0.01. This finding suggests a remarkably strong positive association between the two seemingly disparate domains.

The vivid depiction of this captivating correlation is encapsulated in the scatterplot (Fig. 1) presented in this study. Upon first glance, the scatterplot serves as a visual testament to the enchanting synchronicity between the conferral of associate degrees in science technologies/technicians and the undulations of Sysco's stock price. Like two dancers in perfect harmony, the data points sway in sync, affirming the captivating connection we have elucidated.

It is worth noting that while we initially approached this analysis with a hint of skepticism, the resilience of the correlation coefficient and its statistical significance demanded our

attention. This unexpected revelation beckons for further exploration into the underlying mechanisms that intertwine these ostensibly distant realms. In the grand symphony of economic and educational dynamics, this unanticipated harmony invites researchers and practitioners alike to embrace the intricacies of the interwoven threads of academia and financial markets.



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

In essence, our study serves as an invitation to engage with the bewitching interplay of statistical relationships that transcend conventional boundaries. As we navigate through the labyrinth of numbers and market fluctuations, the enigmatic relationship between the world of scientific education and the culinary dominion of Sysco Corporation unfolds as a testament to the serendipitous connections that underpin the fabric of our economic landscape.

### Discussion

The findings presented in this study unravel a fascinating connection between the conferral of associate degrees in science technologies/technicians and the stock price of Sysco Corporation (SY). The robust correlation coefficient of 0.9653337, accompanied by a practically negligible p-value, substantiates the previously unexplored relationship between these seemingly incongruous domains. These results corroborate prior research by Smith et al., who highlighted a rising trend in the awarding of science associate degrees, and Doe and Jones, who emphasized the growing relevance of technical education in labor dynamics. The unexpected synchronicity between the conferral of science associate degrees and Sysco's stock performance aligns with our unorthodox exploration of the interplay between scientific education and financial markets.

As we amusingly harken back to our literature review, the quirkiness and unexpected elements found in "The Martian" and "Jurassic Park" surprisingly provide enlightening viewpoints that inform our serious interpretation of the connection between science education and Sysco's stock performance. The narrative of unexpected events and the timeless spirit of innovation portrayed in these works find resonance in our unexpected revelation of a substantial positive association between science associate degrees and Sysco's stock price. Furthermore, the cultural touchstones highlighted in our literature review, such as

"Breaking Bad" and "Food Network Star," which seem unrelated to academic and financial spheres, have contributed to our multidimensional understanding of the intricate web of influences at play. These seemingly divergent cultural elements humorously converge with the statistical outcomes, reinforcing the multidimensional nature of our investigation.

This study not only sheds light on the statistical association between science education and stock market performance but also playfully highlights the unexpected paths and hidden dimensions encountered in the exploration of unorthodox relationships. While our findings raise more questions than answers, they pave the way for further inquiry into the mechanisms underpinning this captivating correlation. The unanticipated harmony unearthed between the world of scientific education and the culinary domain of Sysco invites scholars and practitioners to delve deeper into the whimsical interplay of statistical relationships that transcend conventional boundaries.

In summary, our analysis sets the stage for a delightful romp through the labyrinth of academic and financial intricacies, where statistical relationships defy expectations and give rise to serendipitous connections that underpin the fabric of our economic landscape.

### Conclusion

In conclusion, our foray into the symbiotic duet of scientific education and the culinary colossus Sysco Corporation has unfurled as an unexpected pas de deux of statistical significance. The robust correlation coefficient of 0.9653337 and its desirable p-value of less than 0.01 for the time frame of 2011 to 2021 have left us pondering the intricacies of this melodic association. As we reflect on the data, one cannot help but marvel at the harmonious twirl of associate degrees in science technologies/technicians and the undulating tempo of Sysco's stock price.

While some may find this correlation as baffling as finding a microscope in a kitchen pantry, the statistical evidence cannot be dismissed lightly. This alignment of educational accolades and market movements has provided us with a peculiar symphony of numbers, enticing us to contemplate the unseen forces that entwine the world of academia with the ebbs and flows of Wall Street.

As we bid adieu to this enthralling anomaly, we cannot help but acknowledge the capricious beauty of statistical relationships, akin to stumbling upon a rare ingredient that elevates a dish from ordinary to extraordinary. The dance between scientific education and stock market performance has proven to be a surprising waltz of interconnectedness, reminding us that in the grand performance of economic dynamics, even the most unexpected partners can sway in unison.

In light of these findings, it is clear that no further research is needed in this area. The enthralling orchestration of statistical significance has spoken, leaving us to marvel at the captivating universe of unexpected connections.

