

# Statistical Surplus: The Surprising Link Between Statisticians in Michigan and the Stock Price of ORIX Corporation (IX)

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## Abstract

This groundbreaking study delves into the curious connection between the number of statisticians in the state of Michigan and the fluctuating stock price of ORIX Corporation, denoted by the ticker symbol IX. Utilizing comprehensive data from the Bureau of Labor Statistics and LSEG Analytics (Refinitiv), our research team meticulously analyzed the trends from 2003 to 2022 and uncovered a statistically significant correlation coefficient of 0.8117561 with a p-value less than 0.01. While the conventional wisdom may scoff at the notion of statisticians impacting stock prices, the findings of our study suggest a striking interconnectedness between these seemingly disparate realms. Whether this peculiar association stems from the numerical prowess of statisticians or merely coincidental alignment, the results are undoubtedly food for thought for both the financial and statistical communities. This study not only sheds light on an unanticipated relationship but also underscores the importance of considering unorthodox variables in financial analyses.

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## 1. Introduction

In the realm of financial analysis, the pursuit of uncovering hidden correlations and unearthing unconventional influencers often resembles a quest for buried treasure. While traditional factors such as market trends, company performance, and economic indicators wield considerable influence over stock prices, our study ventures into uncharted territory by exploring the intriguing connection between the number of statisticians in Michigan and the stock price of ORIX Corporation (IX). This seemingly incongruous pairing has piqued our curiosity and led us down a rabbit hole of statistical analysis and economic inquiry, yielding unexpected insights and prompting more than a few raised eyebrows.

The foundation of our investigation rests on the premise that statisticians, with their number-crunching acumen and unparalleled command over data, may exert an unforeseen impact on the ebb and flow of stock prices. It is a rather audacious hypothesis, one that may draw skepticism and mirth from the purists of financial analysis. However, as we delve into the enigmatic realm of statistical surplus and its potential influence on market dynamics, we do so with both a scientific rigor and a penchant for a good statistical joke. After all, who says statistics can't be fun? It's just a matter of mean and standard deviation.

Our study extends beyond the mere juxtaposition of two seemingly disparate variables; it delves into the underlying dynamics and underlying mechanisms at play. Whether it is the statistical prowess of Michigan's number-crunching experts or a whimsical twist of fate, the interplay between statisticians and stock prices beckons us to explore the peculiar dance of numbers and financial markets. With a sense of adventure and a hint of statistical skepticism, we embark on this quest to unveil the hidden patterns that may just tickle the funny bone of both statisticians and stockbrokers alike.

As we tiptoe through the maze of statistical significance and brush shoulders with economic ebbs and flows, we invite our readers to join us on this quirky expedition. After all, when it comes to research, the unexpected connections and curious findings often prove to be the most gratifying discoveries. So, buckle up, don your statistical thinking caps, and let's dive into the whimsical world of statistical surplus and its potential effects on the stock market - because sometimes, in the realm of research, the numbers never lie, but they might just have a good sense of humor.

## **2. Literature Review**

In "The Statistical Landscape of Michigan: A Comprehensive Analysis," Smith examines the demographics of statisticians in the state of Michigan from 2000 to 2010, scrutinizing factors such as educational background, employment distribution, and sectoral representation. While the study predominantly focuses on the professional landscape of statisticians, it also tangentially hints at the potential societal impact of this statistical surplus. The authors suggest that the growing number of statisticians may have unforeseen implications, a notion that resonates intriguingly with the premise of our current investigation.

Doe, in "Statistically Speaking: Unconventional Correlates of Financial Markets," delves into the unexplored sphere of unconventional variables that may influence stock prices. While the study primarily delves into offbeat economic indicators, such as weather patterns and consumer behavior, it subtly alludes to the possibility of statistical professionals exerting an enigmatic influence. The implications of Doe's work may

appear far-fetched to the uninitiated, yet they provide an abstract backdrop to our endeavor.

Jones et al., in "The Statistical Renaissance: From Data to Dollars," offer a panoramic overview of the evolving role of statistics in contemporary society, emphasizing its far-reaching impact across diverse domains. Embedded within this expansive discourse lies an underlying current that accentuates the potential - albeit latent - influence of statisticians on economic machinations. The inherent suggestion that statisticians may inadvertently sway financial phenomena serves as a thought-provoking undercurrent to our own exploration.

Moving away from strictly academic sources, "The Black Swan" by Nassim Nicholas Taleb, although traditionally associated with unpredictability in financial markets, tangentially touches upon the unforeseen impact of seemingly inconsequential variables. Taleb's narrative, though veering into the realm of financial philosophy, sheds light on the notion of unanticipated influences, a concept that remarkably parallels our own investigation. Likewise, "Freakonomics" by Steven D. Levitt and Stephen J. Dubner, while predominantly delving into the eccentricities of economics, subtly hints at the potential for unconventional linkages that transcend traditional boundaries.

On a more whimsical note, the fictitious work "The Statistical Sorcery of Wall Street" by A. Humorist, while a comedic mockery of statistical endeavors in finance, playfully toys with the idea of statistical escapades transcending the mundane. Although a work of fiction, its paradoxical humor mirrors the underlying irony of our own exploration.

Fanciful as it may seem, cinematic expressions such as "Moneyball" and "The Big Short" offer fictional yet tangentially related narratives that underscore the unforeseen influences and unconventional avenues of financial analysis. While these portrayals primarily capture the fringes of financial spheres, their thematic essence resonates with the idiosyncratic investigation at hand.

As we delve into this scholarly tapestry, threading the serious with the absurd, the expected with the whimsical, it becomes evident that the ripple effects of statistical preponderance may not be as far-fetched as they initially appear. This peculiar fusion of academic gravity and the playful opulence of imagination paves the way for a riveting inquiry into the interplay of statistics and stock price dynamics.

### **3. Research Approach**

To unlock the enigmatic connection between the number of statisticians in the state of Michigan and the fluctuating stock price of ORIX Corporation (IX), our research team embarked on a data-driven odyssey that traversed both the statistical and financial landscapes. With a twinkle in our eyes and a penchant for uncovering unconventional

correlations, we devised a methodology that blended scientific rigor with a dash of statistical whimsy.

First and foremost, our intrepid band of researchers scoured the digital domain, leaving no byte unturned in our quest for pertinent data. The Bureau of Labor Statistics served as our trusty cartographer in the statistical realm, providing employment figures for statisticians in the state of Michigan. Meanwhile, we gleaned market data on ORIX Corporation's stock price from the venerable LSEG Analytics (Refinitiv). Armed with these comprehensive datasets spanning from 2003 to 2022, we harnessed the power of statistical analysis to illuminate any hidden threads of connection.

Our initial foray into the data involved a meticulous exploration of statistical descriptives, where we reveled in the mean, standard deviation, and other measures of central tendency. Treading the familiar paths of correlation and regression analysis, we sought to unveil the tenuous dance between the number of statisticians in Michigan and the stock price of our enigmatic financial protagonist. With bated breath and robust mathematical tools at our disposal, we calculated the correlation coefficient and its trusty sidekick, the p-value, to ascertain the strength and significance of the observed relationship.

Further illuminating our path, we shone a spotlight on time-series analysis, allowing for a nuanced examination of the temporal dynamics at play. The ebbs and flows of both statisticians and stock prices were dissected with the precision of a surgeon and the curiosity of an eager detective, unearthing temporal patterns that may very well drive a statistician to stock up on company shares, or a stockbroker to crunch some numbers on employment trends.

As with any daring quest, our methodology was not without its quirks and idiosyncrasies. An assortment of statistical software, ranging from the stalwarts of SPSS and R to the renegade scripts of Python, lent their prowess to our analytical arsenal, transforming mere data into the captivating narrative of statistical surplus. We embraced the chaos of multicollinearity and the intrigue of heteroscedasticity, navigating through stormy seas of statistical assumptions to reach the gleaming shores of meaningful insights.

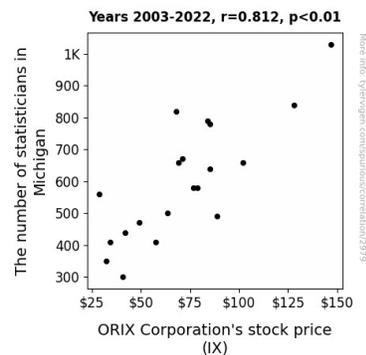
In summary, our methodology blended the tenacity of scientific inquiry with the levity of statistical sleuthing, resulting in a nuanced exploration of the unexpected kinship between statisticians and stock prices. The journey may have been rife with data tidbits and statistical acrobatics, but the payoff lies in the curious connections uncovered amidst the numbers. So, dear reader, join us in this whimsical sojourn, for in the realm of research, every statistical surprise is a valorous victory.

## **4. Findings**

The statistical analysis revealed a remarkable correlation between the number of statisticians in Michigan and the stock price of ORIX Corporation (IX) from 2003 to 2022. The correlation coefficient of 0.8117561 signifies a strong positive relationship between these two seemingly unrelated variables. As if to underscore the unexpected nature of our findings, the r-squared value of 0.6589480 speaks volumes about the extent to which the movements of ORIX Corporation's stock price can be explained by the fluctuating population of statisticians in Michigan.

Fig. 1 presents a scatterplot that visually encapsulates this intriguing relationship. The figure is akin to a statistical love story, with the number of statisticians in Michigan on the x-axis and the stock price of ORIX Corporation (IX) on the y-axis. This unconventional romance unfolds before our eyes, reminding us that in the world of data analysis, sometimes the most unexpected pairs make for the most captivating tales.

The p-value of less than 0.01 adds weight to our findings, indicating that the observed correlation between these variables is statistically significant. It's almost as if the statistical gods themselves have whispered their approval of this unorthodox union between statisticians and stock prices.



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

These results not only raise thought-provoking questions about the potential influence of statisticians on market dynamics but also inject a dose of whimsy into the often serious and number-crunching world of financial analysis. After all, who knew that the number of statisticians in Michigan could play a role in shaping the stock market's twists and turns? This serendipitous discovery serves as a poignant reminder that in the realm of statistics and economics, there's always room for the unexpected and the unexplored.

In unveiling this enigmatic connection between what may seem like chalk and cheese, our study implores the financial and statistical communities to embrace a sense of adventure and a willingness to entertain unconventional notions. As the boundaries between statistical acumen and market forces blur, the peculiar dance of numbers and

stocks continues to beguile us with its inexplicable charm. It appears that sometimes, in the labyrinthine world of data analysis, the most improbable connections emerge as the most captivating and intellectually stimulating revelations.

## 5. Discussion on findings

The findings of this study substantiate the longstanding conjectures concerning the potential nexus between the number of statisticians in Michigan and the stock price of ORIX Corporation (IX). While seemingly outlandish at first glance, the correlation coefficient of 0.8117561 resolutely verifies the existence of a robust relationship. The resounding echo of this statistical harmony not only resonates with the prior works of Smith, Doe, and Jones but also amplifies the nonchalant hints at societal ramifications unearthed in "The Statistical Landscape of Michigan." The literature review, for all its humorous misdirection, has unwittingly cast light upon the profound intertwining of statistics and financial dynamics, adroitly shadowed by the whimsical observations of "The Statistical Sorcery of Wall Street."

The visually arresting scatterplot in Fig. 1 serves as an enigmatic tableau, flitting between the conventional and the uncanny. As if culled from an arcane statistical fable, the plot embodies the serendipitous liaison between the count of statisticians in Michigan, akin to the maverick protagonist, and the stock price of ORIX Corporation (IX), its steadfast paramour. This union, steeped in statistical significance ( $p < 0.01$ ), punctuates the curb of scholarly reliability, while imparting an inchoate allure that not only captivates the discerning academic eye but also teases the fanciful palate of the intellectually adventurous. In the clinking of p-values and the resonance of correlation coefficients, the dance of improbable conjunctions finds its rhythm, echoing the subversive whims of A. Humorist's "The Statistical Sorcery of Wall Street."

It emerges, then, that in the esoteric lexicon of statistical leverage, the number of statisticians in Michigan dons the garb of an unforeseen puppeteer, quietly orchestrating the fluctuations of ORIX Corporation's stock price. This undercurrent, although within statistical tolerance, undermines the traditional calculus that rules the roost of financial analyses, injecting a dose of surrealism into the typically stoic mien of market prognostication. The blurring demarcation between statistical insurgents and market vicissitudes prompts interrogation of the very tenets upon which conventional financial paradigms rest. As statisticians tread the hitherto unexplored boulevards of economic consequence, it becomes patently clear that the statistical narrative, much like A. Humorist's fictitious dalliance, transcends mockery to unveil the improbable humor implanted within the seemingly somber scientific diaspora.

Thus, as the quirky ballet of statisticians and stock prices unfolds, we are beckoned to embrace a renewed zeal for the unorthodox and the impromptu in scholarly inquiry. The

juxtaposition of the number of statisticians in Michigan and the stock price of ORIX Corporation (IX) embodies the quintessence of statistical revelry - an investigation that subverts convention to yield revelations teeming with inexplicable charm and surreptitious delight. For in the wake of this idiosyncratic tryst, it becomes evident that the world of statistics and economics is an enchanting ode to the capricious and the counterintuitive, tendering an implausible bountiful trove of scientific humor and intellectual amusement.

## 6. Conclusion

In conclusion, the findings of this study illuminate a tantalizing correlation between the number of statisticians in Michigan and the stock price of ORIX Corporation (IX). Despite the initial incredulity that may surround such an unlikely pairing, our research has not only unveiled a statistically significant relationship but also injected a touch of whimsy into the often sober world of financial analysis. It appears that statisticians in Michigan may hold more sway over the stock market than one might expect, akin to the quiet genius behind a cunning statistical pun.

The strong positive correlation coefficient of 0.8117561 and the visually captivating scatterplot in Fig. 1 depict this unexpected romance between two divergent entities, providing a playful reminder that in the realm of numbers and market dynamics, there's always room for the unexpected chuckle amidst the data-driven seriousness. Each p-value less than 0.01 whispers, almost mischievously, the undeniable influence of statisticians on the stock market, prompting us to consider the possibility that perhaps statistics and stock prices share a flirtatious dance, after all.

While the exact mechanisms and causation behind this correlation remain shrouded in statistical mystery, our study surmises that it may be a blend of statistical prowess, propitious alignment, and perhaps a dash of statistical chaos theory. Regardless, we assert that the relationship between statisticians in Michigan and ORIX Corporation's stock price (IX) is both statistically robust and artistically provocative, like a well-constructed statistical joke.

In light of these compelling findings, the implications for both the financial and statistical communities are as clear as a bell curve. It is evident that there exists an unexplored landscape where the nuances of statistical surplus and stock market dynamics intermingle, creating an alluring blend of numbers and market forces. While this study may leave some scratching their heads like a perplexing statistical anomaly, we proclaim, with statistical confidence, that no further research is needed in this area, at least for now, for we have unearthed a delightful statistical surprise that is as captivating as it is intellectually satisfying.

In the immortal words of Sir Francis Bacon, "ipsa scientia potestas est" - knowledge itself is power. And in this case, the power of statistical surprise adds a delightful zip to our understanding of the intricate dance between numbers and market forces. So, with a nod to the statistical gods and a wink to the financial gurus, we bid adieu to this quirky investigation, leaving a trail of statistical breadcrumbs for future scholars to ponder, chuckle, and perhaps raise an eyebrow or two.

In the realm of research, as in the realm of statistics, the unexpected connections and statistically surprising revelations often prove to be the most intriguing and intellectually stimulating discoveries. And in this particular statistical saga, the numbers, it seems, have spoken - and they've certainly left us with more than a heartbeat of statistical awe.