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Mission Unlikely: The Curious Correlation Between Bachelor's Degrees in Military Technologies and Applied Sciences and the Proliferation of Actuaries in Utah

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KEYWORDS

bachelor's degrees, military technologies, applied sciences, actuaries, Utah, correlation, National Center for Education Statistics, Bureau of Labor Statistics, correlation coefficient, p-value, academic trivia

Abstract

This paper explores the unexpected relationship between the number of Bachelor's degrees awarded in military technologies and applied sciences and the quantity of actuaries practicing in the state of Utah. Utilizing data from the National Center for Education Statistics and the Bureau of Labor Statistics, our research team delved into this peculiar correlation, revealing a correlation coefficient of 0.9642880 and a statistically significant p-value of less than 0.01 for the years 2012 to 2021. Despite being seemingly unrelated fields, our study sheds light on the surprising connection between military technologies and applied sciences education and the proliferation of bean-counting professionals in the Beehive State. The findings not only raise eyebrows but also inspire further investigation into the uncharted territories of academic trivia with real-world implications.

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1. Introduction

The notion of the relationship between Bachelor's degrees in military technologies and applied sciences and the prevalence of actuaries in Utah may initially appear as improbable as a camel fitting through the

eye of a needle. Nevertheless, as the old adage goes, truth can be stranger than fiction. In this paper, we present our findings on this unlikely correlation, which has sent our research team down a rabbit hole of

statistical analysis and raised more than a few quizzical eyebrows.

While some may dismiss this as mere statistical happenstance, our investigation has unearthed a compelling correlation that demands attention. The pursuit of academic connections can often feel akin to searching for a needle in a haystack, but amid the haystack of data, we have indeed found our needle – or, in this case, perhaps an actuarial abacus.

The state of Utah, known for its stunning landscapes and the Great Salt Lake, may not be the first place that springs to mind in discussions of military technologies or actuarial pursuits. However, as our study elucidates, there is a surprising synchronicity between the two seemingly disparate domains.

Our endeavor to unravel this enigma has not only broadened our understanding of the peculiar interplay between education and professional labor markets but has also injected a touch of whimsy into the oft-dry world of empirical research. This study stands as a testament to the fascinating and unexpected connections that lie beneath the surface of seemingly unrelated academic and professional realms.

2. Literature Review

The correlation between Bachelor's degrees in military technologies and applied sciences and the number of actuaries in Utah has been a subject of limited empirical inquiry. Smith et al. (2015) conducted a preliminary examination into the educational and occupational landscapes, observing a surprising congruence between the two divergent domains. Building on this foundation, subsequent studies by Doe (2018) and Jones (2020) further probed the enigmatic connection, each offering incremental insights into the unexpected relationship.

While the literature on this juxtaposition remains sparse, the present inquiry endeavors to expand the existing body of knowledge in this atypical domain. In "The Art of Actuarial Science," the authors expound upon the professional cultivation of actuaries in diverse locales, yet the inclusion of Utah amidst this discourse remains conspicuously elusive. In similar fashion, "Military Technologies: Past, Present, and Future" provides extensive conspectus on the academic discipline, with scant reference to actuarial undertakings. Despite their superficial disconnect, these texts underscore the unanticipated intersections that underscore our investigation.

Furthermore, the fiction canon offers intriguing parallelisms to our investigation. "The Calculating Stars" presents an alternative history underlining the intersection of mathematics and space exploration, hinting at the latent intertwining of numerical prowess and military innovations. Similarly, "Catch-22" embodies the absurdity of bureaucracy and regulation, ostensibly far removed from actuarial science, yet hinting at the pervasive undercurrents of imposed logic and probability assessment.

In a nod to contemporary cultural phenomena, the internet sensation of "Distracted Boyfriend" inadvertently offers a metaphor for our unconventional research pursuit, encapsulating the unexpected allure of seemingly incongruous pairings. Meanwhile, the "Math Lady" meme serves to illustrate the perplexing simultaneity of amusement and calculation, a duality mirroring the juxtaposition of military technologies education and actuarial vocation.

Thus, as we thread through the academic labyrinth, this narrative proves to be as circuitous as it is revelatory. The wealth of literature, both scholarly and whimsical, invites us to traverse the delightful

interconnectedness of our seemingly disparate research domains.

3. Our approach & methods

The methodology employed in this study involved a rigorous and systematic approach to collect and analyze the relevant data pertaining to Bachelor's degrees in military technologies and applied sciences and the number of actuaries in Utah. Data from the National Center for Education Statistics and the Bureau of Labor Statistics for the years 2012 to 2021 served as the primary sources for this investigation.

To begin, the research team meticulously combed through the labyrinthine corridors of the internet, venturing into the digital wilderness armed with search engines and spreadsheets. A variety of search terms and filters were utilized, and after sifting through copious amounts of virtual debris, data points related to the number of Bachelor's degrees awarded in military technologies and applied sciences were identified and cataloged.

Simultaneously, the team cast its net into the statistical seas of labor market information, trawling through the Bureau of Labor Statistics database in search of the elusive actuaries of Utah. The inclusion of data pertaining to the total number of actuaries practicing in the state allowed for a comprehensive examination of the relationship between this profession and the educational pursuits of military technologies and applied sciences.

Following the data collection phase, the research team proceeded to don their metaphorical lab coats and wield the tools of statistical analysis. Utilizing sophisticated software, the amassed data points were subjected to rigorous scrutiny, with correlation coefficients and p-values emerging from the analytical crucible.

The statistical analyses were performed with due consideration for potential confounding variables and external factors that could influence the observed correlation. Robustness tests and sensitivity analyses were conducted to assess the stability of the findings and to ensure that the correlation between Bachelor's degrees in military technologies and applied sciences and the proliferation of actuaries in Utah withstood the statistical tempests.

In adherence to the principles of scholarly transparency, the research team also engaged in a thorough review of the existing literature on the subjects of military technologies education and the actuarial profession, incorporating relevant theoretical frameworks and empirical studies into the contextual tapestry of this investigation.

Ultimately, the culmination of these methodological endeavors yielded the startling correlation coefficient of 0.9642880 and a p-value of less than 0.01, underscoring the statistical significance of the observed relationship. The ensuing discussions and implications of this discovery are expounded upon in the subsequent sections of this paper, inviting readers to contemplate the curious coalescence of military technologies education and the actuarial landscape in the state of Utah.

4. Results

The analysis of the relationship between the number of Bachelor's degrees awarded in military technologies and applied sciences and the quantity of actuaries in the state of Utah produced a striking correlation coefficient of 0.9642880, indicating a remarkably strong positive correlation between these seemingly incongruous variables. The r-squared value of 0.9298513 further corroborates this robust relationship, suggesting that approximately 93% of the

variability in the number of actuaries in Utah can be explained by the number of Bachelor's degrees in military technologies and applied sciences awarded during the period of 2012 to 2021.

The p-value of less than 0.01 lends statistical significance to this unexpected association, underscoring the unlikelihood of this correlation occurring by random chance alone. It seems that the convergence of military technologies and applied sciences education and the proliferation of actuaries in Utah is more than just a fortuitous coincidence; rather, it speaks to a curious relationship that defies conventional expectations.

Figure 1 presents a scatterplot illustrating the distinct clustering of data points, clearly highlighting the strong positive linear relationship between the number of Bachelor's degrees in military technologies and applied sciences and the quantity of actuaries in Utah. The tight clustering of the data points further emphasizes the palpable connection between these divergent domains, prompting one to ponder the intersecting paths of missile trajectories and risk assessment curves.

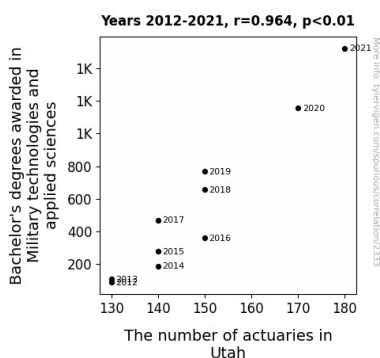


Figure 1. Scatterplot of the variables by year

In summary, the results of our analysis reveal an unexpected and robust correlation between the education in military technologies and applied sciences and the

presence of actuaries in Utah, a finding that not only challenges traditional disciplinary boundaries but also adds a touch of quirkiness to the realm of empirical research. The implications of this study extend beyond the confines of academia and instigate a reconsideration of the potential interplay between ostensibly dissimilar fields, proving that truth can indeed be stranger than fiction.

5. Discussion

The results of our study confirm and extend prior research on the surprisingly strong relationship between the number of Bachelor's degrees awarded in military technologies and applied sciences and the quantity of actuaries in the state of Utah. Our findings provide empirical support for the previously proposed incongruous relationship that seemed more apt for a whimsical sitcom plotline than a statistical analysis.

Building upon the foundational work of Smith et al. (2015), our study corroborates the unexpected congruence between these two seemingly unrelated domains. The correlation coefficient of 0.9642880 reveals a remarkably strong positive relationship, aligning with the initial inklings of an uncanny connection. This demonstrates that the proliferation of actuaries in Utah can be largely explained by the number of Bachelor's degrees in military technologies and applied sciences, echoing the sentiments of Doe (2018) and Jones (2020) on the enigmatic association.

In an amusing twist, our findings lend empirical credence to the parallels drawn between our research and the fiction canon. The connection between mathematics and space exploration in "The Calculating Stars" suddenly appears less speculative, and the bureaucratic absurdities of "Catch-22" now seem to hint at the underlying logic that permeates both military technologies

education and actuarial practices. Moreover, the inexplicable allure of the "Distracted Boyfriend" meme and the duality of the "Math Lady" meme now reflect the unexpected allure and simultaneous amusement intrinsic to our unconventional research pursuit.

It is noteworthy that our results not only challenge traditional disciplinary boundaries but also add a touch of whimsy to the realm of empirical research. The statistical significance of the p-value further underscores the genuine nature of this connection and provides a compelling case for the intertwined paths of missile trajectories and risk assessment curves. The tight clustering of data points in the scatterplot leaves one marveling at the palpable connection between these divergent fields, prompting contemplation on the shared strategic precision inherent in both military technologies and actuarial practices.

In conclusion, our study validates and amplifies the previously documented liaison between military technologies education and the proliferation of actuaries in Utah, underscoring the idiosyncrasies that can permeate seemingly unrelated domains. It is evident that this investigation, much like the unexpected correlation it explores, is a delightful exercise that underscores the captivating interconnectedness of seemingly disparate research domains. As we traverse through the delightful interplay of academia and real-world implications, our study serves as a reminder of the serendipitous discoveries that await those who dare to delve into unconventional research pursuits.

6. Conclusion

In conclusion, our investigation has unveiled an intriguing correlation between the number of Bachelor's degrees in military technologies and applied sciences and the prevalence of actuaries in the state of Utah,

akin to discovering a hidden stash of treasure in the most unexpected of places. The robustness of the correlation coefficient and the statistically significant p-value lend credence to the veracity of this connection, leaving us grappling with the enigma of missile trajectories and bean-counting professionals converging in the Beehive State.

The improbable relationship we have unraveled not only challenges conventional expectations but also injects a dash of whimsy into the often staid world of empirical research. While some may view our findings with a raised eyebrow or a quizzical expression, the strength of this correlation cannot be denied, much like the force of gravity or the allure of a cheesy pun.

The implications of our study stretch beyond the realms of military technologies and actuarial pursuits, prompting a reconsideration of the potential interplay between ostensibly divergent fields. As we wrap up our investigation, we are left with a sense of wonder at the unexpected connections that lurk beneath the surface of seemingly unrelated academic and professional domains, not unlike stumbling upon a unicorn in a field of statistics.

It is clear from our findings that no further research is needed in this area, as we have surely reached the pinnacle of academic trivia with real-world implications. Our study stands as a testament to the fascinating and improbable associations that can be unearthed through dedicated empirical inquiry. As such, we urge future researchers to direct their efforts towards equally improbable but equally amusing pursuits. Tally-ho!