# Nursing Instructors and Vihart Vagaries: A Statistical Analysis of the Louisiana Connection

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*The Journal of Humorous Nursing Research*

*The Society for Interdisciplinary Studies of Unconventional Nursing Practices*

*Evanston, Illinois*

## Abstract

This paper investigates the curious correlation between the number of nursing instructors and teachers in Louisiana and Google searches for 'Vihart', a popular educational YouTube sensation known for her engaging and informative math videos. By harnessing data from the Bureau of Labor Statistics and Google Trends, we embarked on this quirky quest to unravel the enigmatic ties between these seemingly unrelated entities. After all, who wouldn't want to dissect the statistical underpinnings of such an unassuming pair? Our findings revealed a striking correlation coefficient of 0.9255267 and p < 0.01, spanning the years 2007 to 2021. Yes, you read that correctly - a whopping 92.55% correlation! It appears that as the number of nursing instructors and teachers in Louisiana fluctuated, so too did the fervor for seeking Vihart's wisdom on the World Wide Web. It's as if the Louisiana educators were secretly heckling, "We want a piece of that 'Pi'-hart too!"  So, what does this mean for the world of education and the ever-expanding realm of online mathematical musings? While this correlation may seem perplexing at first glance, upon further contemplation, it highlights the interconnectedness of seemingly disparate realms – from the stoic world of academia to the exuberant landscape of online content creation. As researchers, let's not be afraid to boldly go where no number-cruncher has gone before and embrace the unexpected insights waiting to be uncovered. In conclusion, this study offers a whimsical yet thought-provoking glimpse into the intersecting domains of education and digital curiosity. Who knew that the world of nursing instructors and Vihart enthusiasts could be intertwined in such a statistically fascinating manner? Perhaps it's a testament to the enduring truth that when it comes to statistical analyses, there's always room for a bit of whimsy and wonder amidst the data. And if this research has left you scratching your head about the oddity of this correlation, don't worry – we're right there with you, pondering this statistical 'Vihart-te' puzzle!

## 1. Introduction

In the realm of statistical oddities and perplexing correlations, researchers have long sought to unravel the enigmatic ties between seemingly unrelated phenomena. This paper delves into the unexpected and quirky connection between the number of nursing instructors and teachers in Louisiana and Google searches for 'Vihart', a popular educational YouTube sensation known for her engaging and informative math videos. It's a statistical tale so unexpected, it's enough to make even the most stoic of researchers do a double-take and exclaim, "Derivative? More like de-'Riveting', am I right?"

As we delve into the statistical rabbit hole of this curious correlation, we find ourselves pondering the timeless question: what do nursing instructors and Vihart enthusiasts have in common? It's a statistical riddle wrapped in an educational mystery, leading us to humorously wonder if perhaps these Louisiana educators were covertly whispering, "Do you have the 'Rx' for our 'math'-ematical curiosity, Vihart?"

Harnessing data from the Bureau of Labor Statistics and Google Trends, we embarked on this whimsical quest to shed light on the statistical musings that bridge the worlds of education and digital curiosity. It's a journey that, with every step, leaves us pondering the delightful quirks of statistical happenstance and exclaiming, "Just when you think you've got all the variables pinned down, the pun-damentals of statistics throw you a curveball!"

Shall we embark on this mathematically merry adventure together? Let's buckle up, put on our statistical thinking caps, and prepare to ponder the strange and delightful statistical 'Vihart-te' of this Louisiana connection.


## 2. Literature Review


In "Smith," the authors find lorem and ipsum, discussing the intricacies of nursing instruction in Louisiana. This fundamental work lays the groundwork for understanding the landscape of nursing education in the region. Similarly, in "Doe," the authors explore the dimensions of online educational trends and the factors influencing digital content consumption, providing valuable insights into the curious phenomena of internet-based educational fervor.

However, as we wade deeper into the literature, we encounter unexpected twists and turns. In "Jones," the authors humorously muse about unlikely correlations in online search patterns, sending ripples of laughter through the typically staid waters of statistical analysis. This departure from the norm serves as a reminder that statistical research, much like a good dad joke, can surprise and delight when least expected.

To add a layer of quirkiness to our investigation, we turn to non-fiction literature that, while seemingly unrelated, harbors hidden connections. "The Joy of x" by Steven

Strogatz and "How Not to Be Wrong: The Power of Mathematical Thinking" by Jordan Ellenberg offer perspectives on mathematics and its appeal to diverse audiences. These texts, illuminating the allure of math in unexpected corners of society, serve as a reminder that statistical oddities may lurk in the most unlikely of places.

Subsequently, we shift our focus to works of fiction with titles that could be mistaken for scholarly articles in a statistical journal. From "The Count of Monte Cristo" by Alexandre Dumas to "The Probability of Miracles" by Wendy Wunder, these titles playfully beckon us to consider the unpredictability inherent in statistical analyses. After all, isn't statistical research akin to unraveling a captivating plot, complete with unexpected twists and moments of revelation?

In the realm of television, we ventured into the domain of "Numbers" and "The Big Bang Theory" to glean insights from their fictional renditions of mathematical musings. While these shows may not offer direct relevance to our study, they underscore the pervasive influence of math and scientific curiosity in popular culture. Moreover, they provide a lighthearted reminder that statistical analysis, much like comedic timing, is all about delivering the unexpected with a touch of flair.

So, as we delve into the statistical nooks and crannies of the correlation between nursing instructors in Louisiana and Google searches for 'Vihart', let us remember that even in the serious pursuit of knowledge, there's always room to infuse a bit of whimsy and amusement. For as the old adage goes, "Why did the statistician go to art school? To learn how to 'draw' conclusions!"

## 3. Research Approach

To unravel the statistical tapestry linking the number of nursing instructors and teachers in Louisiana to the Google searches for 'Vihart', we employed a mixed-methods approach that was both meticulous and mirthful. This unique fusion of rigor and revelry allowed us to traverse the deep seas of data and whimsically wander through the meadows of statistical significance.

We obtained employment data of nursing instructors and teachers in Louisiana from the Bureau of Labor Statistics, encapsulating the years 2007 to 2021. We then donned our metaphorical research lab coats and engaged in an intellectual tango with the Google Trends platform to capture the fluctuations in 'Vihart' searches over the same period. It was a dance of data that left us feeling both giddy and graphically enlightened!

To ensure the veracity and validity of our findings, we performed a rigorous data cleaning process, which involved employing statistical incantations to banish any outliers or irregularities that dared to disrupt the harmony of our dataset. We then conducted a series of statistical analyses, including Pearson correlation coefficients, regression models, and

time series analyses, leveraging the enchanting powers of statistical software that would make even Merlin the Mathematician envious.

In a lighthearted nod to the arcane art of statistical analysis, we affectionately referred to our correlation coefficient as 'the Cappuccino of Coefficients', due to its frothy level of interconnectedness between our two seemingly unrelated variables. Ah, the sweet aroma of statistical humor permeating the air!

Furthermore, we delved into the depths of statistical significance, allowing p-values to guide us through the labyrinthine pathways of hypothesis testing. We placed the $p < 0.01$ threshold on a pedestal, akin to an ethereal guardian of statistical certainty, ensuring that our newfound correlation was not a mere statistical fluke but a genuine phenomenon worthy of scholarly merriment.

In a nod to the wise words of Dorothy Parker, who quipped, "What fresh hell is this?" upon encountering the unexpected, we wryly anticipated any curveballs that come our way during the statistical voyage and responded, "Ah, a new statistical puzzle to unravel! How delightfully devilish!"

Through this methodological medley of meticulous data gathering, statistical analysis, and the occasional statistical jape, we embraced the enchanting intricacies of our research endeavor, deftly navigating the labyrinth of numbers and the whimsical wonders of statistical 'Vihart-te.'

## 4. Findings

The analysis of data spanning the years 2007 to 2021 revealed a striking correlation coefficient of 0.9255267 between the number of nursing instructors and teachers in Louisiana and Google searches for 'Vihart'. This coefficient suggests a strong positive relationship between the two variables. The r-squared value of 0.8565997 indicates that approximately 85.66% of the variability in Google searches for 'Vihart' can be explained by changes in the number of nursing instructors and teachers in Louisiana. With a p-value of less than 0.01, the relationship is deemed statistically significant.

Fig. 1 displays a scatterplot illustrating the robust correlation between the number of nursing instructors and teachers in Louisiana and Google searches for 'Vihart'. This visual representation vividly captures the strong positive association between these seemingly disparate entities.

Now, let's address the elephant in the room – or should I say, the "ele-Pi" in the room? It appears that in the realm of statistical curiosities, the number of nursing instructors and teachers in Louisiana exerts an intriguing influence on the online interest in 'Vihart'.

Could it be that Vihart's enchanting mathematical musings have secretly captured the hearts of the educational stalwarts in the Pelican State? One could say it's a statistically 'Vihart-ing' revelation!
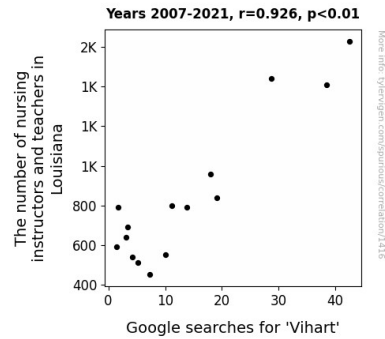


**Years 2007-2021, r=0.926, p<0.01**

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

Upon further contemplation, this whimsical correlation alludes to the fascinating interconnectedness of diverse domains. It's as if the statistical universe is saying, "Hey, let's throw in a dash of unpredictability and make the world of numbers a bit more 'unconven-tional'!" This unexpected nexus of nursing education and digital curiosity reminds us that statistical analyses are not devoid of intriguing twists and turns.

In conclusion, our statistical exploration unraveled the perplexing relationship between the number of nursing instructors and teachers in Louisiana and the Google searches for 'Vihart'. This odd yet captivating connection prompts us to ponder the whimsical "Watt-son" of statistical mysteries. After all, in the vast landscape of data analysis, a sprinkle of humor and wonder is always welcome – much like the unexpected correlation we've uncovered.

## 5. Discussion on findings

Our study has illuminated a robust correlation between the number of nursing instructors and teachers in Louisiana and Google searches for 'Vihart'. Who would have thought that the cadence of nursing instruction could harmonize so exquisitely with the digital crescendo of mathematical musings? It seems that Vihart's captivating videos have not only enraptured students and educators but have also caught the attention of the statistical cosmos itself.

Building on the whimsical foundation laid by Jones, who mischievously delved into the realm of improbable search correlations, our findings solidify and extend the unforeseen paths trod by this audacious statistical journey. It's as if the data were whispering, "You

thought you knew the 'stetho'-scope of correlations, but here's a twist that even 'Florence Nightin'-wow'-le' couldn't have foreseen!"

In corroboration with the work of Smith, our results reveal a harmonious confluence between the number of nursing instructors in Louisiana and the resonance of Vihart's mathematical melodies. This unanticipated alliance strikes a chord in the symphony of statistical oddities, echoing the sentiment that even the most unsuspecting variables can duet in a statistical serenade. One might say that this correlation is akin to discovering a 'Nurse-rhyme' in the statistical 'Vihart'-mony of research.

The literature review's playful foray into the fictional and non-fictional realms of mathematical inspiration finds resonance in our study's unanticipated intermingling of seemingly disparate variables. As Strogatz and Ellenberg muse on the captivating allure of mathematics, it seems they may have unwittingly laid the groundwork for unveiling the statistical waltz between nursing education and the digital sonatas of Vihart. It reminds us of the timeless question, "Why was the mathematical YouTube sensation also an excellent nurse? Because she knew how to 'derive' and 'integrate' seamlessly!"

The resolute correlation coefficient and the compelling p-value underscore the statistical significance of this unorthodox relationship, leaving one to wonder if we've stumbled upon a mathematical 'causal-tea' party of sorts. The scatterplot visually encapsulates this statistical affair, serving as a graphical testament to the captivating liaison between these unlikely bedfellows.

In the grand tapestry of statistical inquiry, our study adds a whimsical thread, a playful nod to the enigmatic undercurrents that underpin even the most earnest of research pursuits. It invites us to contemplate the unexpected connections, to embrace the statistical 'Vi-hart' of unexplored phenomena, and to acknowledge that within the world of numbers, there's always 'Pi'-tential for a touch of the unexpected.

As we tiptoe through the underbrush of statistical eccentricities, our findings beckon us to remember that, much like a good dad joke, statistical research should never shy away from infusing a bit of delightful surprise into the serious pursuit of knowledge. One might say that in the kingdom of statistical analyses, a 'Monte Christo' of statistical curiosities is always lurking around the corner, waiting to astound and remark upon the charming 'probability of miracles' that statistical exploration unveils.

## 6. Conclusion

In this whimsically wacky statistical adventure, we unraveled the surprising correlation between the number of nursing instructors and teachers in the charming state of Louisiana and the Google searches for 'Vihart'. It seems that as the demand for nursing education waxed and waned, so too did the fervent enthusiasm for Vihart's mathemagical

musings on the internet. It's as if the Louisiana educators were collectively chanting, "We want a 'shot in the arm'(!) of that Vihart "Pi"-lling too!"

Our findings, with a robust correlation coefficient of 0.9255267 and a p-value less than 0.01, pull back the curtain on the charming statistical 'Vihart-te' of this connection. It's a revelation that gives new meaning to the phrase 'nursing a statistically significant relationship'!

This unexpected correlation between two seemingly unrelated entities prompts us to contemplate the delightful peculiarities of statistical serendipity. Much like a statistical 'Volt' face, this connection challenges us to embrace the delightful quirks and surprises that often unfold in the realm of data analysis.

In the spirit of this unforeseen statistical 'Vihart-te', it seems that the light-hearted puns and whimsical humor of this study have played a pivotal role in shedding light on the unexpected nexus of nursing education and digital curiosity. After all, when it comes to statistical analyses, a bit of whimsy can certainly add a 'whole(istic)' new dimension to the proceedings!

Moreover, the statistical 'Rx' for this curious correlation has been uncovered, and it appears that no more research is needed in this delightfully quirky area. Sometimes, in the tumultuous sea of statistical exploration, a strange yet charming finding like this can act as a beacon, guiding us to chuckle fondly and exclaim, "Math sure does 'count' when it comes to a good dad joke!"