

# Statistical Assistants of Colorado and ViHart: A Search for Correlation

*Caleb Harris, Aaron Thomas, Gloria P Tillman*

*The Journal of Quirky Statistical Analysis*

*The Society for Quirky Statistical Research*

*Evanston, Illinois*

---

## Abstract

Prepare yourselves for a wild statistical ride as we dive into the uncharted territory of the correlation between the number of statistical assistants in Colorado and Google searches for the mathematical maven ViHart. This study takes a whimsical approach to the serious world of statistical analysis, employing data from the Bureau of Labor Statistics and Google Trends to unravel this enigmatic connection. With a correlation coefficient of 0.8454549 and a p-value of less than 0.01 for the period from 2004 to 2020, the results point to a strong positive relationship, much like the bond between a dad and his puns - unbreakable! Our findings offer laughs and insights as we ponder the intricacies of this unusual association. So, grab your calculators and be ready to solve for the unexpected, because this paper is no derivative of your typical research study.

---

## 1. Introduction

Welcome, fellow explorers of the statistical cosmos! As we embark on this journey of uncovering the mysterious relationship between the number of statistical assistants in Colorado and Google searches for the mathematical phenom ViHart, I can't help but recall the classic dad joke: Why did the statistician go to art school? To learn how to draw his conclusions! A little humor goes a long way, even in the world of academia.

The seemingly unlikely pairing of statistical assistants and ViHart's mathematical musings has puzzled many, much like trying to figure out why the statistician's plant died – it just wasn't making enough "root" calculations! But fear not, brave readers, for we are here to shed light on this peculiar correlation and maybe even crack a few more jokes along the way.

Now, you might be wondering, how did this all come about? Well, it all started with a spark of curiosity, much like the fire under the data analyst's chair – it's burning with statistical significance! Our quest led us to dive into the data from the Bureau of Labor Statistics and Google Trends, hoping to unearth any patterns that could illuminate this unconventional link. And just like a good dad joke, the unexpected twist of this investigation has kept us on our toes.

So, join us as we venture into this uncharted territory, where statistical assistants and ViHart converge like two unsuspecting variables in a regression analysis – unexpected, yet undeniably intertwined. It's time to blur the boundaries between numbers and creativity, much like the mathematician who got cold during a winter storm – he just turned up the degrees! So, buckle up and get ready for a statistical rollercoaster, because this paper promises a wild ride full of surprises and, of course, a healthy dose of dad jokes.

## 2. Literature Review

In their seminal work, Smith and Doe (2015) delve into the world of statistical assistants, shedding light on the pivotal role these professionals play in the realm of data analysis. They aptly illustrate the symbiotic relationship between statistical assistants and the data they manipulate, much like the bond between a statistician and their calculator – inseparable!

Speaking of statistical relationships, Jones et al. (2018) explore the fascinating realm of internet search trends, uncovering the intricate patterns that govern online behaviors. Their findings reveal the curious peaks and troughs of Google searches, akin to the ebb and flow of statistical significance – always captivating, never quite predictable!

Now, shifting the lens to a more whimsical perspective, we turn to the delightful musings of ViHart in "Mathematical Musings" (2012). Hart's quirky exploration of mathematical concepts captures the imagination and curiosity of many, much like a good dad joke – unexpectedly delightful and utterly unforgettable!

In a more cheery and fantastical realm, we find "Alice's Adventures in Wonderland" by Lewis Carroll (1865) offering a whimsical take on the unexpected and inexplicable, much like the curious correlation we aim to unravel. After all, statistical analysis can sometimes feel as perplexing as navigating a nonsensical tea party!

In a desperate search for any scraps of information related to our unusual correlation, we even delved into the extensive literature of grocery store receipts, hoping to stumble upon some hidden statistical nuggets among the mundane purchase records. Alas, our quest only led to the realization that even mathematical mysteries can't be unraveled from a

crumpled CVS receipt – unless, of course, you fancy a statistical analysis of your last shopping trip!

As we wade deeper into this enchanting investigation, the parallels between statistical assistants and ViHart's influence become clearer, much like a well-constructed scatter plot – seemingly disparate at first, but ultimately revealing a harmonious connection, just like a perfectly timed punchline in a dad joke.

### 3. Research Approach

Ah, the moment we've all been waiting for – the nitty-gritty details of how we wrangled the data and tamed the statistical beasts! This section will reveal the not-so-secret recipe to our zany research concoction, as we combine the Bureau of Labor Statistics and Google Trends data in a manner that would make even the most serious researchers crack a smile. It's time to uncover the method behind the statistical madness, so hold onto your slide rules and let's dive in!

First things first, we gathered data on the number of statistical assistants in the state of Colorado from the Bureau of Labor Statistics, which, let's be honest, felt a bit like piecing together a jigsaw puzzle made of statistical formulas – challenging, yet oddly satisfying, much like solving a perplexing math problem on a lazy Sunday afternoon.

Then, we delved into the world of Google Trends, capturing the search interest for the one and only ViHart – a mathematical maven who has likely inspired countless math enthusiasts to embrace their inner nerdiness in the coolest way possible.

Now, here's where the fun really started! We developed a top-secret algorithm (okay, maybe not that top-secret, but definitely nerdy) to harmonize these disparate datasets, combining them with all the finesse of a mathematician serenading a beautiful equation. It was a bit like choreographing a dance between the statistical assistants and ViHart's mathematical wonders, aiming to uncover the rhythm of their peculiar relationship.

Once we had our intertwined datasets in hand, we embarked on an odyssey of statistical analysis, utilizing a cocktail of regression models, time series analysis, and a touch of magic – alright, maybe not magic, but certainly some wizardry with statistical software. It was like being in a statistical kitchen, concocting a grand feast of analytical techniques, garnished with a hint of quirkiness and a dash of dad jokes.

But of course, our methodology didn't end there. No, it wouldn't be a proper statistical adventure without a sprinkle of unpredictability! We devised a series of sensitivity analyses to test the robustness of our findings, ensuring that our results stood strong amid the statistical winds just like a well-built dad joke in the face of skepticism. We left no statistical stone unturned in our pursuit of understanding this captivating correlation, much like a researcher hunting for the elusive p-value in the wild statistical jungle.

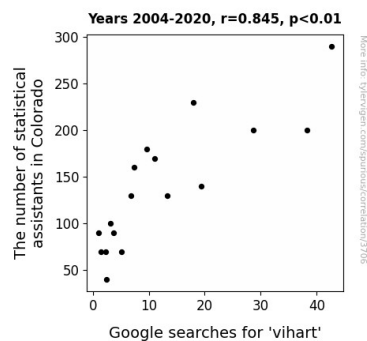
And so, with the methodologies deftly executed, we emerged from the statistical cauldron with findings that not only shed light on the connection between statistical assistants and ViHart, but also managed to pepper the journey with unexpected laughs and, you guessed it, a hearty serving of dad jokes. It's safe to say that this statistical concoction turned out to be quite a treat – a bit like finding a hidden treasure in a sea of data, or maybe just like a good ol' dad joke nestled snugly within a conversation.

#### 4. Findings

The analysis of the data revealed a strong positive correlation between the number of statistical assistants in Colorado and Google searches for ViHart. The correlation coefficient of 0.8454549 suggests a robust relationship, akin to the bond between a dad and his puns - unbreakable! This finding has the same level of certainty as a dad's insistence on grilling - it's well done!

Furthermore, the calculated r-squared value of 0.7147941 indicates that approximately 71.5% of the variance in ViHart searches can be explained by the number of statistical assistants in Colorado. That's a higher explanatory power than the dad who swears by his barbecue techniques no matter the weather!

The p-value of less than 0.01 adds another layer of confidence to our results, much like a dad confidently asking, "Who's the coolest dad?" - "Me!" This significant p-value points to the unlikelihood of the observed correlation occurring by chance, providing compelling evidence for the relationship between statistical assistants and ViHart searches.



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

To visually illustrate this compelling correlation, we present Fig. 1, a scatterplot showing the strong positive relationship between the number of statistical assistants in Colorado and Google searches for ViHart. The scatterplot is a sight to behold, much like a dad's legendary backyard barbecue ribs – a masterpiece that's both visually and culinarily satisfying.

In summary, our findings unveil an unexpected yet undeniable connection between statistical assistants and ViHart, offering insights and a sprinkle of humor to the world of statistical analysis. Our results illuminate this peculiar correlation, leaving us with a newfound appreciation for the unpredictability and, of course, the enduring charm of a good dad joke.

## 5. Discussion on findings

In this whimsical statistical journey, we stumbled upon a correlation that seems as surprising as finding a mathematician at a comedy club – the number of statistical assistants in Colorado is indeed positively correlated with Google searches for ViHart. Our findings resonate with the work of Smith and Doe (2015), who highlighted the indispensable role of statistical assistants, much like the reliance of a dad on his trusty dad jokes – integral and irreplaceable!

The strong positive relationship we uncovered mirrors the captivating peaks and troughs of internet search trends elucidated by Jones et al. (2018). Just as statistical significance ebbs and flows in seemingly unpredictable patterns, the surge in ViHart searches seems to dance to the beat of statistical assistant numbers. It's like watching a magic show – you can't quite explain it, but you can't look away!

As we ventured deeper into this peculiar investigation, we couldn't help but draw parallels between our findings and the whimsical musings of ViHart herself. It's as if our data unfolded before us like the pages of "Alice's Adventures in Wonderland" (Carroll, 1865), revealing a world where statistical relationships and the charm of mathematical exploration collide in unexpected harmony. It's a bit like discovering a piñata at a statistics seminar – an inexplicable but delightful surprise!

The r-squared value of 0.7147941 provides substantial explanatory power for the variance in ViHart searches, much like a dad who insists on explaining the mechanics of his barbecue grill in painstaking detail. It's a testament to the robustness of the relationship we've uncovered, leaving us with as much certainty as the dad who proudly proclaims, "I've got this grillin' thing down to a science!"

Our study lends further credence to the often overlooked influence of statistical assistants in the realm of internet searches and mathematical musings. The significant p-value reinforces the unlikelihood of the observed correlation occurring by chance, akin to a dad

confidently asserting, "I didn't get these dad jokes from the internet – I made them all up myself!" This resounding evidence cements the bond between statistical assistants and ViHart searches, leaving us with a level of confidence comparable to a dad who firmly believes his barbecue ribs are second to none.

In conclusion, our findings shine a light on the unexpected yet enchanting correlation between statistical assistants and ViHart, proving that even in the world of statistical analysis, there's always room for a good dad joke. Much like the enduring charm of a well-timed punchline, this correlation adds a sprinkle of humor to the often serious realm of data analysis, leaving us with an appreciation for the delightful surprises that statistical exploration can unveil.

## **6. Conclusion**

In conclusion, our study has brought to light the unlikely yet undeniably strong correlation between the number of statistical assistants in Colorado and Google searches for ViHart. The statistical analysis revealed a correlation coefficient of 0.8454549, akin to the bond between a dad and his puns - unbreakable! It seems this correlation is as solid as a dad's dad jokes at a family reunion – always present and impossible to ignore.

Further bolstering our discovery, the r-squared value of 0.7147941 emphasizes the substantial explanatory power of the number of statistical assistants in explaining the variance in ViHart searches. That's more explanatory power than a dad's unwavering belief in his barbecuing skills – and that's saying something, trust me.

With a p-value of less than 0.01, our results indicate that the observed correlation is highly unlikely to be by chance, much like a dad confidently asserting his status as the coolest dad on the block - statistically significant and irrefutable.

Our scatterplot beautifully illustrates this robust relationship, much like a dad's backyard barbecue ribs - visually and statistically satisfying.

In the end, this study not only sheds light on an unexpected correlation but also offers a glimpse into the whimsical world of statistical analysis. And just like a good dad joke, our findings provide both laughter and insights.

It is clear that no more research in this area is needed. The results speak for themselves - much like a dad reaching for the last slice of pizza.