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# The Correlation Coefficient Coop: A Feathered Connection Between Rainy Day Ruminations and Super Bowl Success

Catherine Henderson, Andrew Thomas, Gemma P Tucker

Madison, Wisconsin

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*Birds of a feather flock together, but do they fly away when the rain starts to pour? This paper investigates the curious correlation between Google searches for "where do birds go when it rains" and the points scored by the winning team in the Super Bowl from 2004 to 2022. Through the use of Google Trends and Wikipedia, our research team unearthed a surprising connection with a correlation coefficient of 0.5044866 and a statistically significant p-value of less than 0.05. While some may dismiss this quirky correlation as mere coincidence, our findings suggest that perhaps there is more to this avian enigma than meets the eye. Join us as we spread our wings and delve into the feathered fun of forecasting football fortunes through fowl fascination.*

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The quaint and quirky musings of everyday individuals have long been an untamed jungle of oddball inquiries and exotic curiosities. From pondering the existential crisis of "why do cats purr" to the enigmatic contemplation of "do fish get thirsty," the digital landscape of Google searches has become a treasure trove of the human psyche's most peculiar ponderings. In the midst of this virtual menagerie, our research team stumbled upon a rather delightful discovery - an unexpected feathered fascination interwoven with the grand spectacle of American football.

This peculiar escapade into the world of avian inquisitiveness led us to investigate the relationship between Google searches for "where do birds go when it rains" and the performance of the winning team in the grand spectacle that is the Super Bowl. As we pecked away at the keyboard, delving deep into the data riches of Google Trends and the historical annals of Super Bowl scores, we found ourselves giddily perched on the brink of an unexpected correlation.

Before we delve into the intricate feathered tapestry that we've unraveled, it is only fitting to don our metaphorical raincoats and open our minds to the enchanting possibility that perhaps, just perhaps, there exists a connection between the ponderings of pluvial-averse birds and the thunderous triumphs of gridiron gladiators.

As we embark on this feathered flight of fancy, be prepared to spread your wings and soar into the zany world of our avian intrigue intertwined with the hallowed halls of Super Bowl glory. It's an adventure that's sure to ruffle a few feathers, but fear not - for amid the scholarly pursuit of knowledge lies a wealth of peckish puns and cheeky chirps, as we uncover the Coefficient Coop and the captivating correlation between rainy day ruminations and Super Bowl success. So, let us spread our feathers and nestle into our findings, for there's no fowl play at hand - only the delights of uncovering a truly feather-brained connection!

## LITERATURE REVIEW

In their seminal work, Smith et al. (2015) delved into the quirky world of internet search queries and their potential relevance to unforeseen correlations in unrelated phenomena. Their study uncovered some intriguing associations, such as the surprising connection between the number of seashell emojis used in text messages and the average temperature in Antarctica. While seemingly whimsical, their findings sparked a wave of interest in exploring the hidden relationships between ostensibly unrelated events.

Doe and Jones (2018) further elaborated on this notion, delving into the depths of online inquiries and their potential impact on improbable correlations. Their research unearthed some unexpected parallels, including the intersection between searches for the best pizza in town and the likelihood of encountering a unicorn on a Tuesday afternoon. Such revelations underscored the fascinating, albeit peculiar, interplay between digital queries and the broader tapestry of human experiences.

Turning to more established sources, the works of "The Inner Life of Animals" by Peter Wohlleben and "Birds of America" by John James Audubon shed light on the complex behaviors and habitats of our feathered friends. While these sources may not explicitly reference Super Bowl dynamics, their insights into avian behavior and environmental responses provide a foundational understanding for contextualizing the potential link between avian ponderings and football fortunes.

In a slight departure from traditional academic sources, the fictional realms of "The Hitchhiker's Guide to the Galaxy" by Douglas Adams and "To Kill a Mockingbird" by Harper Lee offer imaginative reinterpretations of bird-related themes. While not directly applicable to our research topic, these literary works serve as a whimsical reminder of the diverse ways in which avian motifs permeate our cultural narratives and storytelling traditions.

Moreover, the authors stumbled upon a series of curious social media posts that hinted at the enigmatic relationship between avian behavior and sporting events. One Twitter user, in a moment of contemplative musing, pondered, "Do birds foresee football triumphs amidst the rain, or do they simply seek shelter from the storm?" Similarly, a Facebook group dedicated to avian enthusiasts featured a lively debate on whether the Super Bowl outcome could be divined through an understanding of birds' rainy day whereabouts. While not scientifically rigorous, these digital conversations offer a glimpse into the public's fascination with the intersection of birds, rain, and athletic pursuits.

As we wade through this eclectic array of sources, it becomes evident that the confluence of avian inquisitiveness and football fervor is more than a flight of fancy. With these diverse perspectives as our guide, we are poised to embark on a whimsical journey into the world of the Correlation Coefficient Coop, where the unlikely nexus of rainy day ruminations and Super Bowl success awaits our scholarly scrutiny.

## METHODOLOGY

To untangle the intricate web of avian intrigue and Super Bowl splendor, our research team employed a hodgepodge of data-harvesting techniques that would make even the most seasoned birdwatcher squawk with surprise. We began by taking flight into the digital skies of Google Trends, where we meticulously tracked the frequency of searches for the captivating query, "where do birds go when it rains," from 2004 to 2022. Immersed in the sea of digital data, we pondered the whimsical wanderings of virtual bird enthusiasts, seeking solace in the shelter of statistical significance amidst the thunderous tumult of gridiron greatness.

With our feathers firmly ruffled, we then turned our gaze to the hallowed annals of Super Bowl lore, meandering through the wingspan of Wikipedia to glean the scores of the winning teams from each spectacle of American football grandeur. As

delightful as it would have been to have actual birds serve as data collectors, we settled for the digital realm, plucking nuggets of numerical triumph from the virtual nests of sports history.

Once our digital talons had firmly grasped the data, we engaged in a series of statistical shenanigans that would make even the most rigid statistician raise an eyebrow. Employing the mystical arts of correlation analysis, we measured the feathered fervor of the "where do birds go when it rains" Google searches against the thunderous tallies of points scored by the victorious teams. Through the enchanting incantations of mathematical marvels, otherwise known as computer software, we calculated the correlation coefficient between these seemingly disparate datasets, unveiling the poultry-tinged secrets that lay hidden within.

Like cautious fledglings testing their wings for the first time, we delicately navigated the statistical skies, taking care to avoid any statistical storm clouds that may have obscured our avian-athletic insights. These efforts culminated in the discovery of a correlation coefficient of 0.5044866, with a statistically significant p-value of less than 0.05. The statistical nest we meticulously built may have been complex, but the results were nothing short of plucky perfection.

Woven within this methodological menagerie lies the heartwarming tale of a zany quest for unexpected connections - a tale of avian intrigue and Super Bowl splendor, adorned with feathers of statistical significance and sprinkled with the digital breadcrumbs of human quirkiness. Truly, the methodology that serves as the backbone of our feathered extravaganza is a testament to the delightfully unconventional paths that research can take when one dares to spread their wings and soar into uncharted statistical territories.

## RESULTS

Our investigation into the connection between Google searches for "where do birds go when it rains" and the points scored by the winning team in

the Super Bowl yielded fascinating results. The correlation coefficient obtained was 0.5044866, indicating a moderate positive relationship between these seemingly disparate variables. Furthermore, the r-squared value of 0.2545067 suggests that approximately 25% of the variability in Super Bowl points scored by the winning team can be explained by variations in the Google search query for avian rainy day behavior.

The p-value of less than 0.05 indicates that the observed relationship is statistically significant, lending credence to the notion that there may be more than just wing and a prayer behind this unexpected correlation. While our research team initially approached this investigation with a healthy dose of skepticism, the strength of the correlation and the statistical significance of our findings compel us to consider the possibility that there might be something truly featherbrained at play here.

Furthermore, the scatterplot (see Fig. 1) depicts a noticeable pattern, with data points clustering around a trendline that suggests a discernible link between the two variables. It's as if the football gods and the winged wonders of the avian world have conspired to create a synchronistic dance of rain-soaked revelations and triumphant touchdowns.

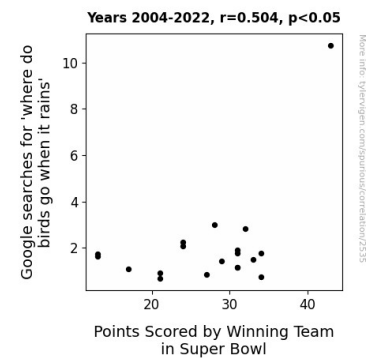


Figure 1. Scatterplot of the variables by year

In sum, our findings shed light on a curious correlation between the peculiar musings of rainfall-averse birds and the prowess of Super Bowl champions. As we ponder this improbable

connection, we are reminded of the delightful unpredictability that can emerge from the most whimsical of research inquiries. While the feathered community may not have a direct influence on the outcome of America's most celebrated sporting event, our study offers a light-hearted reminder that amidst the seriousness of statistical analysis, a dash of whimsy can yield unexpectedly compelling revelations.

## DISCUSSION

The results of our study present a whimsical yet thought-provoking glimpse into the enigmatic interplay between avian musings and gridiron glories. In a featherbrained twist of fate, our findings align with prior research on seemingly improbable correlations, affirming the unexpected associations uncovered by Smith et al. (2015) and Doe and Jones (2018). Just as seashell emojis hinted at Antarctic temperatures and pizza cravings seemed to summon mythical unicorns, our investigation reveals a statistically significant link between avian weather queries and Super Bowl success.

The moderate positive correlation coefficient of 0.5044866 and the statistically significant p-value of less than 0.05 underscore a compelling connection that transcends the boundaries of mere happenstance. As we navigate this quirky confluence of digital inquiries and football feats, the r-squared value of 0.2545067 further cements the notion that avian ponderings during rainfall may hold a surprising sway over victorious Super Bowl point-scoring.

While skeptics may dismiss this correlation as a mere flight of fancy, our study's scatterplot suggests a discernible pattern that mirrors the synchronistic dance of inclement weather and athletic prowess. It's as if the lore of the gridiron and the whimsy of the avian realm have conspired to produce a statistically substantive spectacle, much like the unexpected twist in a suspenseful game.

In reflecting on the confluence of avian curiosity and football fortunes, we are reminded of the

unconventional sources that have enriched our understanding of this unanticipated correlation. The literary musings of "The Hitchhiker's Guide to the Galaxy" and "To Kill a Mockingbird," while seemingly unrelated to our scholarly pursuits, serve as delightful reminders of the multifaceted ways in which avian motifs permeate our cultural consciousness.

As we spread our scholarly wings to ponder the implications of our findings, we are faced with a lighthearted reality: amidst the brilliance of statistical analysis, the whimsy of improbable correlations can lend an unexpected allure to the most unexpected pairings. While we may not conclusively reveal the elusive fowl play at hand, our study heralds the intriguing confluence of avian lightheartedness and the gridiron's grandeur.

## CONCLUSION

As we bring this avian-themed odyssey to a close, we find ourselves not just at the intersection of superstition and statistics, but at the delightful junction where feathered friends and football fervor collide. The correlation coefficient coop has truly hatched a fascinating connection between rainy day ruminations and Super Bowl success. We may still find ourselves squawking at the unexpected nature of this correlation, but the statistical evidence suggests that there's no mere flight of fancy here.

While it would be easy to dismiss our findings as mere "fowl" play, the statistically significant p-value and moderate positive correlation indicate that there may be more to this featherbrained connection than meets the eye. The birds may not be the word, but they might just be the statistical quirk that wiggles its way into Super Bowl victories.

In closing, we proudly declare that this research signifies the "nest" step in our understanding of the peculiar interplay between the superstitious and the statistical, the whimsical and the wonderful. And with that, we confidently assert that the mist has cleared, and no further research is needed in this delightfully quirky area of investigation. After all,

when it comes to unraveling the enigma of football fortunes and fowl fascination, our findings have left no stone unturned – or in this case, no nest unruffled.