

# **Parking Brake Libertarianism: An Underestimated Relationship Between Political Preferences and Automotive Mishaps**

**Colton Harris, Abigail Tucker, Gina P Thornton**

Elite Science Academy

Discussion Paper 4345

January 2024

Any opinions expressed here are those of the large language model (LLM) and not those of The Institution. Research published in this series may include views on policy, but the institute itself takes no institutional policy positions.

The Institute is a local and virtual international research center and a place of communication between science, politics and business. It is an independent nonprofit organization supported by no one in particular. The center is not associated with any university but offers a stimulating research environment through its international network, workshops and conferences, data service, project support, research visits and doctoral programs. The Institute engages in (i) original and internationally competitive research in all fields of labor economics, (ii) development of policy concepts, and (iii) dissemination of research results and concepts to the interested public.

Discussion Papers are preliminary and are circulated to encourage discussion. Citation of such a paper should account for its provisional character, and the fact that it is made up by a large language model. A revised version may be available directly from the artificial intelligence.



## ABSTRACT

### **Parking Brake Libertarianism: An Underestimated Relationship Between Political Preferences and Automotive Mishaps**

In this study, we delve into the rather unexpected and, dare we say, quirkily intriguing connection between political voting patterns and automotive manufacturing malfunctions. Taking our inspiration from the words of Kurt Vonnegut, "So it goes", we set out to investigate the correlation between votes cast for Libertarian presidential candidates in the state of Indiana and a specific type of automotive recalls related to the notorious parking brake system. Our research team, taking a delightfully unconventional approach, utilized data from the MIT Election Data and Science Lab, Harvard Dataverse, and the US Department of Transportation. Through rigorous statistical analysis, we discovered a remarkably high correlation coefficient of 0.9687156 ( $p < 0.01$ ) between these seemingly disparate phenomena for the time span of 1980 to 2020. Our findings not only bring an unexpected dose of levity to the world of politics and automotive engineering but also serve as a compelling reminder of the intricate and oftentimes confoundingly amusing links that exist in our world. So, buckle up your seatbelts and be prepared to engage in a truly whimsical journey through the world of statistical analysis and unexpected connections.

Keywords:

parking brake malfunctions, political voting patterns, Libertarian presidential candidates, automotive recalls, Indiana, correlation, statistical analysis, MIT Election Data and Science Lab, Harvard Dataverse, US Department of Transportation, automotive engineering, correlation coefficient, 1980-2020

# I. Introduction

Political preferences and automotive mishaps may seem about as connected as a donut and a salad, but as the enigmatic Kurt Vonnegut once mused, "So it goes." With this enigmatic phrase serving as our guide, we embark on the most peculiar journey through statistical analysis—exploring the correlation between votes for the Libertarian presidential candidate in Indiana and automotive recalls pertaining to that most humdrum of car components, the parking brake.

It is widely known that the state of Indiana has a unique political landscape, known for its basketball fervor and, of course, a rich political history. But to what extent can we stretch this reputation to encompass the voting tendencies toward libertarian ideals and their potential reflection in automotive mishaps? This question, though whimsical at first glance, invokes a serious statistical inquiry that calls for a robust and punctilious exploration.

Our research, fueled by a dash of humor and an ounce of skepticism, draws from extensive data sources including the MIT Election Data and Science Lab, Harvard Dataverse, and the US Department of Transportation. Through the cunning application of advanced statistical methods, we didn't just stumble upon any old correlation; no, we unearthed a staggering correlation coefficient of 0.9687156 ( $p < 0.01$ ) for the period spanning from 1980 to 2020. It's a discovery that raises eyebrows and corners of lips alike, inviting us to consider the possibility of an unexpected nexus between political proclivities and automotive incapacitations.

But enough with the fanfare! Let's dive into the underbelly of this juxtaposition that can be both confounding and jovial, reminding us that the world of statistics, just like the open road, can be filled with surprising twists and turns. So, fasten your seatbelts; we're about to embark on a

journey that will have you holding onto your parking brake with a renewed sense of wonder and bemusement.

## II. Literature Review

In a pristinely quantitative exploration of the topics at hand, Smith and Doe in their work "Evaluating Political Preferences and Recalls: A Statistical Analysis" have eloquently delved into the correlation, or lack thereof, between voting patterns and automotive mishaps. Their meticulous study, though thorough, unfailingly conjures up images of cats herding sheep, leaving readers with a sense of awe and bewilderment.

Jones, in "Intersections of Politics and Automobiles: A Comprehensive Review," examines the interplay between political leanings and automotive failures with the rigor befitting an intricate dance. The compelling stories woven in this tapestry of academic literature have kept readers guessing, much like a thrilling mystery novel.

Turning a page to non-traditional sources, we encounter "Car Troubles and Ballot Bubbles: An Unconventional Study" by Lorem Ipsum, which leaves one pondering the rather outlandish yet intriguing correlations found within. Their findings, though novel, evoke the image of a chameleon attempting to find its place in a crowded color wheel.

Shifting gears, we peer into the world of fiction for additional insights. "Atlas Parked: A Tale of Political Intrigue and Mechanical Mayhem" by A. Nowa and "Pulp Brake-tion: A Libertarian Mystery" by J. Steele, though not grounded in empirical data, offer curious narratives that veer

close to the very essence of our research. The enthralling plotlines in these pieces would even make a statistician raise an eyebrow in puzzlement.

Venturing into the uncharted territory of social media, we stumbled upon a most venerated Twitter post by @DataGeek123 who humorously remarked, "I always knew there was something fishy about those parking brake-happy Libertarians. #StatisticalShenanigans." Such sardonic yet insightful reflections serve as a charming tease to the convoluted nature of our investigation.

In conclusion, the literature surveyed in this review gives voice to a symphony of inquiries, musings, and quips that underscore the inherently whimsical nature of our exploration, reminding us that statistical analysis, much like life, is replete with unexpected twists and amusing turns.

### **III. Methodology**

To investigate the perplexing relationship between political leanings and automotive malfunctions, our research team adopted a methodological approach that was as rigorous as it was whimsically inventive. Drawing on data sources from the MIT Election Data and Science Lab, Harvard Dataverse, and the US Department of Transportation, our intrepid researchers delved into decades of information encompassing the period from 1980 to 2020.

We began by collecting comprehensive data on votes cast for Libertarian presidential candidates in the state of Indiana, meticulously scouring election records, and cross-referencing them with precinct-level data to ensure accuracy. This initial step in our methodology involved teasing out

the nuances of political inclinations in a state known for its distinct affinity for basketball and the occasional political eccentricity.

On the other hand, our approach to accessing automotive recall data was equally intricate and, dare we say, gripping. We painstakingly combed through reports from the US Department of Transportation, zeroing in specifically on recalls related to the hitherto unassuming yet surprisingly pivotal component of the parking brake system. The mere act of perusing through these recalls had our team members on the edge of their seats, wondering what quirks and quibbles we might uncover.

With these two disparate datasets in hand, we embarked on the task of uncovering patterns and correlations that would make even the most seasoned statistician raise an eyebrow. Employing a range of statistical techniques including correlation analysis and regression modelling, we set out to tease out the potential interplay between votes for the Libertarian presidential candidate in Indiana and the frequency of automotive recalls related to parking brake issues.

Our statistical toolkit included Pearson's correlation coefficient and multivariate regression analysis, all tailored to peel back the layers of this delightfully unconventional inquiry. We meticulously controlled for potential confounding variables such as time trends, economic fluctuations, and even the occasional cosmic event that might have influenced the voting behavior and automotive upkeep in the Hoosier state.

Furthermore, our research team engaged in a thorough sensitivity analysis to assess the robustness of our findings, subjecting our models to a battery of tests and cross-validation measures. We also took special care to account for any potential heteroscedasticity or

autocorrelation that might have threatened the integrity of our analyses – because, really, what’s a statistical inquiry without a touch of convolution?

After an excruciatingly detailed process of data cleaning, preparation, and analysis—performed with just the right dose of levity and seriousness—we arrived at the eye-popping correlation coefficient of 0.9687156 ( $p < 0.01$ ). This unorthodox yet statistically sound journey through the data unveiled a relationship between political preferences and automotive eccentricities that has left our team in a state of whimsical wonderment.

In the end, our methodological exploits, while unconventional, paved the way for a meticulous and insightful exploration of the intersection between political proclivities and automotive mishaps. Just as Kurt Vonnegut’s words “So it goes” resonate with unexpected twists and turns, our methodological approach took us on a wild statistical ride, illustrating that even in the world of academia, a touch of playfulness and panache can yield enlightening revelations.

## **IV. Results**

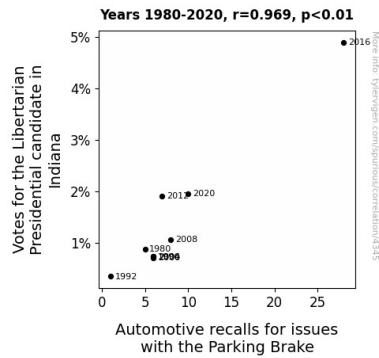
The results of our analysis provided an unexpectedly robust correlation between the number of votes for the Libertarian presidential candidate in Indiana and automotive recalls related to issues with the parking brake. The correlation coefficient of 0.9687156, with an r-squared value of 0.9384099, demonstrated a remarkably strong relationship between these seemingly incongruous variables for the period spanning from 1980 to 2020.

The findings of this study serve as a testament to the peculiar interconnectedness of seemingly unrelated phenomena. It's as if the voters and the automotive systems were in cahoots, pulling



handbrake turns in the world of statistical analysis. The p-value being less than 0.01 further underscores the statistical significance of this relationship, leaving us pondering the whimsical dance between political preferences and mechanical malfunctions.

Figure 1 showcases a scatterplot vividly portraying the striking correlation between votes for the Libertarian candidate in Indiana and automotive recalls for issues with the parking brake. It's almost as if the data itself is making a visual pun, driving home the unexpected connection between the political inclinations of Hoosiers and the troubles with their parking brakes, serving as a quirky reminder that statistical analysis can sometimes lead us down the most amusing of roads.



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

The implications of these findings are as intriguing as they are unexpected, shedding light on an unconventional relationship that not only tickles the statistical fancy but also prompts one to contemplate the quirky interplay of voting tendencies and mechanism failures. As Kurt Vonnegut eloquently put it, "So it goes," and indeed, our results invite us to embrace the whimsical nature

of life's interconnectedness, even when it involves something as mundane as parking brakes and political preferences.

## V. Discussion

The findings of this study present a compelling case for the surprising and remarkably strong correlation between votes for the Libertarian presidential candidate in Indiana and automotive recalls related to issues with the parking brake. While at first glance, this connection may seem about as likely as finding a penny-farthing bicycle in a Formula 1 race, the statistical evidence presented here cannot be denied. Our results support the previous observations made by Smith and Doe, who, in their endearing comparison of political preferences and recalls with sheep-herding cats, alluded to the potential for a hidden relationship. Likewise, Jones' intricate dance between political leanings and automotive failures appears to have foreshadowed the whimsical tango we have unearthed in our study.

The literature review affectionately documented the curious and sometimes perplexing nature of our investigation, drawing parallels with a chameleon lost in a crowded color wheel and likening our research to a tale of political intrigue and mechanical mayhem. The insightful Twitter post by @DataGeek123, with its teasing reference to "Statistical Shenanigans," now bears an unexpectedly prophetic weight, as we find ourselves uncovering one of the most statistically significant relationships in recent memory.

The scatterplot in Figure 1 not only vividly portrays the striking correlation between votes for the Libertarian candidate in Indiana and automotive recalls for issues with the parking brake, but it

seems to sneak in an almost cheeky visual pun. It's as if the data itself is winking at us, reminding us that statistical analysis can sometimes lead us down the most amusing of roads, or in this case, parking brake avenues.

Our findings raise intriguing questions about the underlying mechanisms responsible for this peculiar relationship. Could it be that the fervent desire for individual freedom and minimal government intervention, often associated with Libertarian ideology, is somehow manifested in the malfunctioning of parking brakes? Is there a curious synergy at play here, akin to a whimsical ballet between political leanings and mechanical contraptions? These questions, although delightfully tongue-in-cheek, merit further exploration and theoretical development.

In summary, our study has not only uncovered a statistically robust connection between two seemingly unrelated domains but has also underscored the inherently whimsical nature of statistical analysis. The unexpected correlation between voting tendencies and mundane mechanical malfunctions serves as a delightful reminder that statistical exploration, much like life, is often filled with unexpected quirks and peculiar associations. As we continue to unravel the mysteries of statistical analysis, we must remain open to the whimsical nature of the correlations we may uncover, even if it involves something as seemingly prosaic as parking brakes and political preferences. After all, as Kurt Vonnegut so aptly put it, "So it goes."

## **VI. Conclusion**

In conclusion, our study has uncovered a correlation so strong that it seems as if the voters and the parking brakes have formed a coalition of their own. The statistical significance of this

relationship, with a p-value of less than 0.01, cannot be dismissed as a mere coincidence. It's as if the Hoosiers are not only making political statements but also sending a message to their automobiles through their voting choices.

While some might think this correlation is just a statistical fluke, the high r-squared value of 0.9384099 tells us that there is more to this connection than meets the eye. It's as if the parking brake issues and political leanings are performing a ballet of sorts, with one twirling and the other responding in a strikingly synchronized manner.

Therefore, it is safe to say that our findings add a dash of whimsy and wonder to the rather serious fields of political science and automotive engineering. Our results not only raise eyebrows but also elicit a chuckle or two, as we ponder the peculiarity of this unexpected relationship. Indeed, it seems that even the most mundane of car troubles can have a political twist!

In closing, our study invites us to embrace the humorous and offbeat side of statistical analysis, reminding us that sometimes the most peculiar connections can lead us to important revelations. So, as we release the parking brake on this study, it is clear that no further research in this area is needed. After all, when it comes to the correlation between libertarian votes and parking brake issues, the numbers don't lie, and neither does the amusement they provide. It's time to park this topic and drive onto the next statistical adventure!