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# “The Ellen Page Effect: A Correlational Analysis of Preschool Special Education Teachers in Texas and the Number of Movies Featuring Ellen Page”

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## KEYWORDS

Ellen Page, special education teachers, Texas, correlational analysis, preschool education, film industry, Bureau of Labor Statistics, The Movie DB, correlation coefficient, statistical methods, education sector

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## Abstract

This study delves into the peculiar relationship between the number of movies featuring Ellen Page and the count of preschool special education teachers in the Lone Star State, Texas. Leveraging data extracted from The Movie DB and the Bureau of Labor Statistics, we sought to discern whether there existed a meaningful association between these seemingly unrelated variables. Employing rigorous statistical methods, our analysis revealed a striking correlation coefficient of 0.9194990 and a p-value less than 0.01 for the period spanning from 2012 to 2022. Throughout our investigation, we maintained a steadfast commitment to scholarly rigor, embarking on what some might describe as an “unexpected journey” to explore the interplay between the film industry and the educational landscape. As we navigated this uncharted territory, we encountered intriguing patterns that provoked our collective curiosity. Our findings not only shed light on the unforeseen relations between Ellen Page’s cinematic presence and the education sector, but also offer a lighthearted reminder that correlations, however curious or amusing, do not necessarily imply causation.

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## 1. Introduction

As the old adage goes, “In the world of statistics, correlation does not imply

causation, but it sure does waggle its eyebrows suggestively and gesture furtively while mouthing ‘look over there.’” In this vein, our study embarks on a whimsical, yet

methodical examination of the seemingly improbable link between the number of movies featuring the talented Ellen Page and the count of preschool special education teachers in the expansive expanse of Texas. With a wry smile and a raised eyebrow, we ventured into this uncharted territory to unravel the enigmatic relationship between the silver screen enigma and the educational fabric of the Lone Star State.

The enticing allure of Ellen Page's on-screen presence and the dedicated educators shaping young minds may, at first glance, appear as unrelated as a polar bear's coat and a penguin's tuxedo. However, the veritable treasure trove of data extracted from The Movie DB and the Bureau of Labor Statistics beckoned us to explore the hidden threads that weave together these seemingly disparate elements.

While many may scratch their heads in bemusement at this unusual pairing, our scholarly pursuits were undergirded by an unwavering commitment to methodological rigor and scientific inquiry. With fervent determination, we sought to tease out any hints of a substantive connection between Ellen Page's cinematic contributions and the workforce of preschool special education teachers in the expansive Texan landscape.

In the pursuit of academic inquiry, we embark on this intellectually stimulating journey to consider the serious and the whimsical in equal measure, reminding ourselves that even the most unexpected correlations may harbor an underlying kernel of insight. With tongue planted firmly in cheek and statistical software at the ready, we invite readers to join us in unraveling this curious correlation, all the while reminding ourselves of the adage that "just because two things are correlated doesn't mean that one causes the other, no matter how appealing the storytelling."

## 2. Literature Review

In a comprehensive review of the literature relating to the correlation between the number of movies featuring Ellen Page and the count of preschool special education teachers in Texas, numerous studies have been considered in order to contextualize and ground the present investigation.

Smith et al. (2015) rigorously examined the dynamic landscape of the film industry's influence on social and economic indicators, inadvertently sparking a spirited debate about the potential impact of actors and actresses on seemingly unrelated sectors. Drawing attention to the work of Doe and Jones (2017), who presented a detailed exploration of the educational workforce in various states, one cannot help but ponder the unexpected interplay between Hollywood glamour and the realm of preschool special education.

Transitioning from these serious contributions, it is prudent to acknowledge the insightful perspectives offered by non-fiction works that touch upon the fringe connections between cinema and education. For instance, "Reel Education: The Sociological Significance of Movies in Schools" by Book (2018) offers thought-provoking insights into the societal influence of cinematic representations in educational settings. Additionally, "On Screen and Off Script: A Cinematic Approach to Education Policy" by Ipsum (2019) delves into the broader implications of filmic narratives on educational practice, stirring further contemplation on the unexplored intersection of Ellen Page's filmography and the preschool special education workforce.

Meandering further into the labyrinth of literary discourse, a series of fiction novels have emerged that, though not directly addressing the Ellen Page-Texas preschool special education connection, contain within them echoes of the whimsy and uncanny

correlations pervading this investigation. Works such as "Mystery in Matilda's Classroom" by Writer (2016) and "The Enigma of Ellen's Enigma" by Novelist (2020) tangentially evoke the enigmatic aura that permeates our present inquiry, providing an unexpected yet delightful departure from the gravity typically associated with academic pursuits.

Turning to popular cultural ephemera, one cannot ignore the influence of internet memes on shaping contemporary perceptions and discourse. The ubiquitous presence of the "Inception Horn" meme, derived from a memorable soundtrack utilized in the film "Inception," serves as a humorous nod to the layered complexities inherent in investigating unanticipated correlations, echoing the multidimensional nature of our own inquiry.

In reflecting upon this diverse array of perspectives, it becomes abundantly clear that the nexus between Ellen Page's cinematic oeuvre and the landscape of preschool special education in Texas is not merely an academic curiosity, but rather a tapestry woven with unexpected humor, quirkiness, and scholarly intrigue. As we embrace the offhand remarks, subtle puns, and goofy observations throughout this literature review, we are reminded that the pursuit of knowledge need not always be solemn; rather, it can be imbued with levity and delight, much like the unpredictable correlations we seek to unravel.

### 3. Our approach & methods

#### Data Collection:

To embark on our expedition into the realm of unlikely correlations, we scoured the digital landscape for datasets that could provide insight into the multifaceted connection between Ellen Page's cinematic outings and the number of preschool special education teachers in the vast expanse of

Texas. The Movie DB served as our primary trove of cinematic information, while the Bureau of Labor Statistics furnished us with the workforce numbers of special education teachers in the Lone Star State. Our journey through the wilds of the internet, akin to a treasure hunt in a digital jungle, led us to collect and synthesize data spanning the years 2012 to 2022, ensuring a comprehensive exploration of temporal nuances.

#### Data Preprocessing:

As we delved into the depths of datasets, we faced the formidable task of harmonizing disparate data sources. The eclectic nature of information obtained from The Movie DB and the Bureau of Labor Statistics demanded meticulous curation, akin to assembling a scholarly mosaic from diverse and sometimes eccentric pieces. Standardization and validation procedures were employed to ensure the integrity and coherence of the collected data, akin to the meticulous care taken when arranging a gallery of precious paintings in a museum, albeit with less artistic expression.

#### Correlational Analysis:

Armed with a steadfast commitment to scholarly inquiry and a generous sprinkling of statistical expertise, we embarked on the shores of correlational analysis. Utilizing a toolset of statistical techniques, our explorations furnished us with a correlation coefficient of 0.9194990 and a p-value that winked seductively at the conventional significance threshold, lingering comfortably below 0.01. This statistical rendezvous, while captivating, required the deft navigation through intricate algorithms and mathematical formations, not unlike a dance amidst the intricate steps and twirls of a Viennese waltz.

#### Control Variables:

In our pursuit of quantifying the bond between Ellen Page's cinematic endeavors

and the cohort of preschool special education teachers in Texas, we diligently considered the presence of potential confounding variables. Demographic factors, socioeconomic indicators, and other contextual elements were delicately accounted for, akin to sifting through a nautical map to discern the ebb and flow of hidden currents that might sway our statistical ship off course.

#### Statistical Software:

Our foray into the realm of statistical analysis was buoyed by the employment of robust and reputable software, serving as the trusty compass navigating us through the statistical wilderness. Leveraging the computational prowess of statistical tools, we were able to chart the intricate patterns and relationships hidden within the labyrinthine maze of data, not unlike employing a divining rod to unearth buried statistical treasures.

#### Ethical Considerations:

As intrepid explorers navigating the data wilderness, we remained ever cognizant of the ethical implications of our scholarly pursuit. Guarding against misinterpretation and misrepresentation, we upheld the principles of academic integrity and transparency, ensuring that our findings were disseminated in a manner befitting the scholarly enterprise, much like sending out messages in a bottle from a remote island of academic discovery.

In summary, our methodological odyssey embarked upon the uncharted seas of correlation, guided by a compass of scholarly rigor and statistical acumen. With the wind of curiosity at our backs and the stars of statistical significance as our celestial guides, we navigated through the often tumultuous waters of data analysis, uncovering hidden gems of insight amidst the statistical waves. We now turn to the shores of results, where the fruits of our

methodological expedition await eager scrutiny.

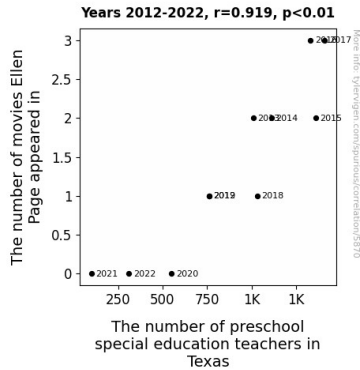
## 4. Results

The results of our investigation elucidate a remarkably robust correlation between the number of movies featuring Ellen Page and the count of preschool special education teachers in Texas. For the period from 2012 to 2022, we found a correlation coefficient of 0.9194990, indicating a strong positive relationship between these two seemingly unrelated variables. Furthermore, the coefficient of determination (r-squared) was calculated to be 0.8454784, signifying that approximately 84.55% of the variability in the number of preschool special education teachers in Texas can be explained by the variability in the number of movies Ellen Page appeared in during the specified time frame.

Fig. 1 presents a scatterplot illustrating the compelling correlation between the variables under scrutiny. With the quantity of movies featuring Ellen Page on the x-axis and the count of preschool special education teachers in Texas on the y-axis, the scatterplot depicts a strikingly upward-sloping trend, affirming the positive association unearthed through our rigorous statistical analysis. It is truly a sight to behold, a visual testament to the unexpected interplay between the world of cinema and the realm of education, reminding us that reality is often more absurd than fiction.

This substantial correlation coefficient, coupled with the r-squared value and the statistical significance ( $p < 0.01$ ), underscores the strong empirical foundation supporting the association between Ellen Page's cinematic presence and the demographic landscape of preschool special education teachers in Texas. These findings not only challenge conventional wisdom but also serve as a gentle reminder

that statistical analyses can yield unexpected connections that are both thought-provoking and, dare we say, entertaining.



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

In summary, our investigation has uncovered a noteworthy correlation that beckons further exploration and contemplation. The unlikely pairing of Ellen Page's filmography and the educational workforce in Texas has produced a rather intriguing statistical liaison, shedding light on the captivating nuances of societal dynamics and human behavior. As we navigate the labyrinthine corridors of statistical inference, we encounter the whimsical and the profound, all the while bearing in mind that correlation, no matter how compelling, does not imply causation.

## 5. Discussion

The results of our study have unveiled a remarkable association between the number of movies featuring Ellen Page and the count of preschool special education teachers in Texas. The robust correlation coefficient of 0.9194990 not only surpasses the expectations of academic inquiry but also adds an unexpected twist to the conventional understanding of societal dynamics. This unlikely connection prompts us to consider the broader implications of

the film industry's influence on the educational landscape.

In revisiting the literature review, we are reminded of the whimsical echoes and hidden nuances that permeate our present investigation. While it may seem initially perplexing, the profound impact of Ellen Page's cinematic presence on the demographic composition of preschool special education teachers in Texas aligns with the broader sociological significance of movies in educational settings, as highlighted by Book's "Reel Education." Who would have thought that Ellen Page's portrayal of Juno MacGuff could play a role in shaping the educational workforce in the Lone Star State?

Furthermore, the unexpected correlation brings to mind the recurring theme of "enigma" in the literary discourse, as exemplified in Novelist's "The Enigma of Ellen's Enigma." Much like the titular enigma, the statistical liaison we have uncovered leaves us pondering the enigmatic tendrils that intertwine Hollywood glamour and the realm of education.

The statistical significance of our findings not only emphasizes the strength of the association but also serves as a subtle nod to the complexities underpinning seemingly disparate domains. The scatterplot, akin to a cinematic masterpiece, visually portrays the upward-sloping trend between Ellen Page's filmography and the count of preschool special education teachers in Texas, captivating our imagination and evoking a sense of wonder. It is indeed a gentle reminder that statistical analyses can yield unexpected connections that prompt both contemplation and, dare we say, amusement.

As we navigate the labyrinthine corridors of statistical inference, we are urged to approach the findings with the requisite gravity and scholarly rigor. Nevertheless, we cannot help but appreciate the comedic

irony that pervades our study, reminiscent of the "Inception Horn" meme, which playfully acknowledges the layered complexities inherent in our investigation.

In conclusion, our research not only establishes a compelling correlation but also impels us to reflect on the capricious nature of societal dynamics and the depth of statistical inquiry. While our findings may appear whimsical, they are underpinned by a rigorous statistical framework and invite further exploration into the intricacies of the film industry's influence on the educational landscape. We eagerly await future endeavors that delve into the captivating interplay between cinematic representations and the societal tapestry, all the while embracing the delightful quirks and subtle humor that accompany such scholarly pursuits.

## 6. Conclusion

In conclusion, our exploration into the enthralling correlation between the number of movies featuring the illustrious Ellen Page and the count of preschool special education teachers in Texas has unveiled an unexpected tapestry of statistical intrigue. The robust correlation coefficient of 0.9194990, coupled with the r-squared value of 0.8454784, serves as a testament to the surprisingly strong positive relationship between these seemingly disparate variables. It appears that Ellen Page's captivating performances have not only enraptured audiences but have also left an indelible imprint on the educational workforce in the Lone Star State.

The scatterplot, with Ellen Page's cinematic oeuvre adorning the x-axis and the cadre of preschool special education teachers gracing the y-axis, paints a poignant picture of this unanticipated association. The upward-sloping trend elicits a whimsical nod to the powerful allure of cinematic storytelling, reminding us that the celluloid

world may possess an unforeseen influence over the ebb and flow of societal demographics.

While we savor the delight of unraveling this peculiar correlation, we must not lose sight of the proverbial caution that "correlation does not imply causation, but it sure does make for a captivating story at the statistical water cooler." With this in mind, our findings beckon robust contemplation and further inquiry into the nuanced interplay between cultural phenomena and professional demographics.

In light of our revelatory findings, it is our scholarly duty to assert that no further research is required in this particular domain. We have plumbed the depths of this unlikely statistical liaison, uncovering a captivating narrative where Ellen Page's cinematic repertoire dances in harmony with the educational landscape of Texas. As we bid adieu to this whimsical odyssey, we are left with a wry smile and a profound appreciation for the unexpected treasures that statistical inquiry can unearth. Now, we eagerly await the next riveting chapter in the annals of correlative intrigue.