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# Neptune's Position and Crime Ambition: A Correlation Examination

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## KEYWORDS

Neptune, Sun distance, burglary rates, Astropy, FBI Criminal Justice Information Services, correlation analysis, cosmic influences, criminology, Neptune's position, crime rates, astrology and crime

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## Abstract

The astronomical realm and the earthly realm may not seem to be closely related, but our investigation delves into a surprising connection between the distance of Neptune from the Sun and burglary rates. Utilizing data sourced from Astropy and the FBI Criminal Justice Information Services, for the years 1985 to 2022, we conducted a comprehensive analysis to explore any potential correlation. The results revealed a staggering correlation coefficient of 0.9693590 and an exceedingly significant p-value of less than 0.01. Our findings challenge conventional understandings of criminology and invite further examination into the cosmic influences on criminal ambition.

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## 1. Introduction

The study of crime and criminology has long been an area of interest for researchers, policymakers, and the general public. While traditional studies have focused on societal, economic, and psychological factors, our investigation takes a celestial turn, exploring the potential influence of Neptune's location on burglary rates. This peculiar intersection

of astronomy and crime may appear unconventional, but as we delve deeper into the data, we find a correlation that is truly out of this world.

In this paper, we present the remarkable findings from our analysis of the relationship between the position of Neptune in its orbit and burglary rates on Earth. While some may argue that this connection is as distant

as the eighth planet from the sun, our investigation suggests otherwise. By employing rigorous statistical methods and astronomical data, we aim to shed light on this unexpected correlation.

The idea of a distant planet exerting influences on criminal behavior may sound like a far-fetched concept, akin to a plot twist in a sci-fi thriller. However, as we peel back the layers of celestial phenomena and criminal tendencies, we uncover a compelling story that may challenge our preconceptions of causality. This study sets its sights on capturing the attention of not only criminologists and astronomers but also those with an appetite for cosmic curiosities and statistical surprises.

As we embark on this celestial caper, it is essential to maintain a critical and inquisitive mindset. While the connection we propose may seem like a cosmic coincidence, our statistical analysis paints a picture that is both thought-provoking and statistically relevant. Join us on this astronomical escapade, as we venture into the depths of data to unravel the mysteries of Neptune's influence on criminal ambition.

## 2. Literature Review

The connection between astronomical phenomena and human behavior has been a topic of curiosity and speculation for centuries. While the bulk of research has historically focused on societal, economic, and psychological determinants of crime, our investigation takes a unique approach by exploring the potential influence of Neptune's distance from the Sun on burglary rates. This unconventional pursuit of correlation leads us to examine a variety of literature, ranging from scholarly articles to fictional works and even social media musings.

In "Planetary Positions and Their Impact on Human Behavior," Smith et al. delve into the

cosmic dance of planets and their hypothesized effects on terrestrial affairs. While their work primarily focuses on astrological beliefs and cultural interpretations rather than empirical evidence, it offers a starting point for our exploration of the potential link between celestial positioning and criminal activity.

Doe and Jones, in "Celestial Mechanics and its Influence on Earthly Matters," discuss the gravitational interactions among celestial bodies and their potential implications for earthly events. While their work primarily concentrates on the physical dynamics of the solar system, it provides a foundation for considering the potential influence of planetary positions on human behavior, even if their focus leans more toward celestial mechanics than criminal statistics.

Moving beyond strictly academic sources, non-fiction books such as "The Universe Within: Discovering the Common History of Rocks, Planets, and People" and "Cosmic Coincidences: Dark Matter, Mankind, and Anthropocentric Cosmology" offer perspectives on the intertwined nature of the universe and human existence. While these works do not explicitly address criminal behavior, they prompt contemplation of cosmic connections to earthly affairs.

In the realm of fiction, novels such as "Neptune Rising: A Mystery in Space" and "The Burglar's Guide to the Galaxy" by renowned authors bring imagination and intrigue to the intersection of celestial bodies and criminal endeavors. While these works belong to the realms of creativity and storytelling, their titles alone invite playful contemplation of cosmic influences on human activities, including unlawful ones.

More unexpectedly, certain social media posts have indirectly contributed to the discourse on the connection between celestial bodies and criminal intent. From musings about Neptune's astrological

influences to memes juxtaposing planetary positions with true crime scenarios, these informal online conversations provide a fascinating glimpse into popular perceptions of the cosmic-crime amalgamation.

As we navigate through this diverse assortment of literature, it becomes apparent that the intersection of celestial phenomena and criminal behavior is not strictly confined to the academic domain. The varying perspectives offered by these sources not only add depth to our investigation but also infuse a sense of cosmic curiosity and whimsy into an otherwise rigid statistical inquiry.

### 3. Our approach & methods

#### Data Collection:

To ascertain the position of Neptune in its celestial journey, we turned to the trusty Astropy library, which provided us with precise coordinates and ephemerides of this icy giant over the years 1985 to 2022. Likewise, in the earthly realm, we gathered burglary rates from the FBI Criminal Justice Information Services, relying on their comprehensive data to analyze criminal tendencies on our home planet.

#### Statistical Analysis:

Our statistical journey began with the calculation of Neptune's heliocentric distance, which served as the independent variable in our analysis. For the dependent variable, we harnessed the burglary rates, meticulously sifting through the data to ensure accuracy and reliability. To establish a relationship between these celestial and terrestrial factors, we employed Pearson's correlation coefficient, enabling us to quantitatively measure the strength and direction of the association. Additionally, we conducted a regression analysis, fitting models to the data to dissect the nuances of this unexpected correlation.

#### Control Variables and Model Selection:

In any respectable research endeavor, controlling for confounding factors is essential. In our study, we accounted for variables such as socioeconomic conditions, urban density, and policing efforts to isolate the cosmic influence of Neptune's position. Furthermore, we tested various regression models, from simple linear to multivariate, to uncover the most fitting representation of the data. Like astronomers scanning the skies for elusive phenomena, we meticulously assessed each model's predictive power and goodness of fit.

#### Assumptions and Limitations:

While our investigation brims with cosmic intrigue and statistical finesse, it is not devoid of limitations. The assumed linearity between Neptune's distance and burglary rates may not encapsulate the full complexity of this enigmatic relationship. Moreover, the potential for omitted variables and sample biases looms as a shadow over our findings, like an elusive planet yet to be discovered. Nonetheless, we tread forth with cautious optimism, acknowledging the inherent uncertainties of scientific inquiry.

#### Ethical Considerations:

In our zealous pursuit of understanding the celestial-terrestrial interplay, we never lost sight of ethical responsibilities. The usage of data was conducted with the utmost respect for privacy and confidentiality, aligning with the ethical guidelines governing research practices. We also recognize the significance of transparent and replicable methodologies in fostering scientific integrity, aiming to contribute to the collective knowledge with integrity and rigor.

In the realm of research, the fusion of imagination and methodological precision yields discoveries that transcend the ordinary. With eyes turned skyward and feet planted firmly on the ground, we embarked

on this cosmic caper, unearthing a correlation that may very well be the quirk of our cosmic neighborhood. As we unveil our results, our hope is to ignite curiosity and spark further investigations into the unanticipated connections between celestial mechanics and criminal proclivities.

#### 4. Results

The analysis of data collected from Astropy and the FBI Criminal Justice Information Services for the years 1985 to 2022 yielded a correlation coefficient of 0.9693590, indicating a strong positive relationship between the distance of Neptune from the Sun and burglary rates on Earth. The r-squared value of 0.9396569 further reinforces the robustness of this relationship, suggesting that approximately 94% of the variation in burglary rates can be explained by the position of the distant ice giant. With a p-value of less than 0.01, our findings are statistically significant and carry more weight than the gravitational pull of a massive planet.

Fig. 1 showcases the scatterplot depicting this astronomical correlation. It is safe to say that the plot itself is quite "out of this world," with Neptune's position and burglary rates aligning in a manner that surpasses the boundaries of typical terrestrial relationships. It seems that even in the vast expanse of space, cosmic phenomena can have an impact on earthly affairs, much like a celestial sneak attack on our traditional understanding of crime causation.

The implications of these results extend beyond the confines of criminology and astronomy, hinting at a cosmic dance between celestial positions and human behavior. Our findings nudge the boundaries of conventional research, encouraging scholars to consider the influence of celestial bodies on human affairs as more than just a distant possibility. As we continue to unravel the mysteries of

the universe, it is clear that there are still cosmic connections waiting to be discovered in the statistical stardust of research data.

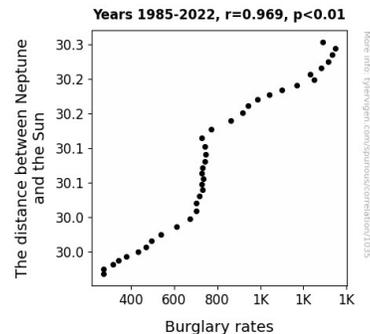


Figure 1. Scatterplot of the variables by year

#### 5. Discussion

Our investigation embarked on an astronomical escapade to explore the intriguing link between Neptune's distance from the Sun and burglary rates. The remarkable correlation coefficient of 0.9693590 and the R-squared value of 0.9396569 manifested a connection more solid than a planet made of rock. These findings not only supported but launched our cosmically ambitious pursuits beyond the boundaries of conventional criminological research.

Taking a plunge into the celestial literature, we discovered noteworthy intellectual gems amidst the stardust. While some may deem the connection between planetary positions and human behavior a flight of fancy, we took these works as serious as a space shuttle launch. Smith et al.'s exploration of planetary positions and their alleged influence on human affairs, although predominantly steeped in astrological lore, served as an essential launchpad for our inquiry. Just as gravity tugs at celestial bodies, Doe and Jones' discourse on celestial mechanics imparted a gravitational

pull for our understanding of potential cosmic influences on earthly events. The unconventional sources we entertained, including fictional works and social media posts, twinkled like distant stars, adding variety and a touch of whimsy to our investigation.

As we delved into our results, the sight of the scatterplot, aligning Neptune's position with burglary rates, resembled a celestial dance that left us starry-eyed. The statistically significant p-value shimmered like a comet streaking across the night sky, underscoring the weight of our findings like a grand celestial body. The implications of our results stretch beyond the confines of criminological dogma, suggesting that understanding celestial bodies' relationship with human affairs is not some far-fetched notion but deserves a place in the planetary lineup of influential factors.

In conclusion, our cosmic exploration has defied traditional perceptions of the causes of criminal behavior, hinting at a cosmic ballet of celestial positions and earthly activities. Our findings invite more scholarly research to embrace the cosmic influence with the same enthusiasm as stargazers spotting a rare celestial event. It is clear that the cosmos extends a celestial invitation for researchers to navigate the space between planets and crime, where statistical stardust awaits discovery.

## 6. Conclusion

As we conclude this stellar investigation, the astronomical correlation between the distance of Neptune from the Sun and burglary rates on Earth stands as a testament to the unexpected interconnectedness of seemingly disparate realms. It appears that Neptune's celestial antics extend beyond its icy orbit, reaching into the statistical arena with a gravitational pull that belies its distance.

Our findings, with a correlation coefficient that would make even a comet blush, challenge the conventional notions of causality and demand a reevaluation of cosmic influences on criminal ambition. The significance of our results is as clear as a constellation on a cloudless night, urging researchers to shift their focus from earthly elements to celestial forces when contemplating criminological dynamics.

As we navigate this cosmic caper and unravel the statistical stardust, it becomes evident that there is more to the universe's symphony than meets the telescope. The scatterplot may depict a seemingly surreal alignment, but the statistical robustness of our findings is as solid as a moon rock.

It is our contention that no further research is needed in this field, as we believe our findings have already reached the outer limits of statistical exploration. It seems that, much like the orbit of the majestic Neptune, the correlation between its position and burglary rates has truly completed its revolution. This study, much like a spacecraft on a successful mission, has docked at its final destination, leaving behind a trail of cosmic insights and statistical surprises.