

Analyzing Patterns of Hate Crimes in Toronto*

majority of hate crimes are directed toward Jewish

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This paper explores the issue of hate crimes in Toronto and their underlying causes, highlighting the urgent need for societal awareness and intervention. Utilizing a dataset of hate crime incidents, we employed statistical methods to analyze the counts attributed to various bias categories. Our findings reveal that the majority of hate crimes are directed toward Jewish individuals, with a concerning trend of increasing occurrences over the years. These results underscore the importance of understanding hate crimes to inform policies and initiatives aimed at fostering inclusivity and reducing discrimination in our communities.

1 Introduction

Hate crimes are criminal offenses directed at individuals or property, driven by bias, prejudice, or hatred based on factors such as race, ethnicity, language, religion, gender, sexual orientation, disability, or other similar characteristics. These crimes are a serious societal issue, as they target specific groups and reinforce divisions. In recent years, cities like Toronto have witnessed a rise in reported hate crimes, prompting a need to analyze the underlying causes and trends. Understanding the motivations behind hate crimes and identifying the most affected communities is critical for developing targeted prevention strategies and fostering a more inclusive society.

This paper utilizes data on hate crimes reported in Toronto to explore the causes behind these offenses. Specifically, it investigates the most frequent motivations for hate crimes, including race, ethnicity, religion, sexual orientation, and gender identity. By analyzing which demographic groups are most often victimized, this paper aims to shed light on patterns of bias in hate crimes and how these trends have evolved over time. The analysis reveals that Black, Jewish, and female individuals are disproportionately targeted, and the occurrence of hate crimes has been increasing each year.

*<https://open.toronto.ca/dataset/hate-crimes-open-data/>

The importance of this study lies in its ability to inform policymakers, law enforcement, and the public about the prevalence and nature of hate crimes in Toronto. Addressing the root causes of these offenses is essential for reducing their occurrence and protecting vulnerable communities.

The remainder of this paper is structured as follows: Section 2 discusses the data sources and variables, as well as the process of cleaning and preparing the data for analysis. Section 3 presents the results, including visualizations of key trends, while Section 4 provides a discussion of the findings. Finally, Section 5 includes appendices with additional details and supporting material.

2 Data

2.1 Data Overview

The dataset for this analysis is sourced from Open Data Toronto, specifically from the Toronto Police Service’s verified Hate Crime occurrences. It records all confirmed hate crimes that have been investigated by the Hate Crime Unit since 2018, categorized by their reported date. Notably, the dataset only includes verified hate crimes and excludes incidents that were unfounded or classified merely as hate incidents.

The dataset serves an important societal purpose, providing communities with detailed information to enhance public safety and awareness about hate crimes in Toronto. The data categories, referred to as bias categories, capture various dimensions of prejudice that are present in hate crimes, such as age, mental or physical disability, race, ethnicity, language, religion, sexual orientation, and gender. These categories allow researchers to analyze the prevalence of bias in different forms, offering a structured view of hate crime patterns over time.

This dataset is invaluable for understanding hate crimes within the city, but it also comes with ethical considerations. Since each data point represents a real-world event, we must recognize the harm experienced by individuals and communities due to these crimes. Additionally, it’s important to acknowledge that the dataset focuses on confirmed hate crimes, which means it only represents cases where sufficient evidence was gathered. While this strengthens the reliability of the data, it also limits the scope of the analysis to known and proven crimes. Furthermore, the geographic locations of the incidents are aggregated to the neighborhood level to protect the privacy of the victims and communities involved.

The data is composed of several key variables relevant to this analysis:

- **EVENT_UNIQUE_ID**: A unique identifier for each offense.
- **OCCURRENCE_YEAR**: The year in which the offense occurred.

- **MENTAL_OR_PHYSICAL_DISABILITY**: Whether the offense was based on the suspect’s perception of the victim’s mental or physical disability.
- **RACE_BIAS**: The race of the victim as perceived by the suspect, which was a basis for the hate crime.
- **ETHNICITY_BIAS**: The ethnicity of the victim as perceived by the suspect, contributing to the hate crime.
- **LANGUAGE_BIAS**: The language spoken by the victim as perceived by the suspect, used as a bias basis for the crime.
- **RELIGION_BIAS**: The victim’s religion as perceived by the suspect, which motivated the crime.
- **SEXUAL_ORIENTATION_BIAS**: The sexual orientation of the victim as perceived by the suspect, serving as a basis for the hate crime.
- **GENDER_BIAS**: The gender of the victim as perceived by the suspect.
- **LOCATION_TYPE**: Location type of the offence.

Alternative datasets were considered but were not used in this analysis. This particular dataset was chosen because it is published by the Toronto Police Service and provides verified, official data on hate crimes, making it more reliable than other possible datasets from unofficial sources. Including additional datasets could introduce inconsistency or unreliability, so this analysis focuses solely on this verified source.

2.2 Data Cleaning

The dataset underwent several cleaning steps to ensure its relevance and consistency for analysis. Several variables were removed as they were either irrelevant to the current analysis or did not add value. These included neighborhood-level geographic identifiers (e.g., NEIGHBOURHOOD_140, NEIGHBOURHOOD_158), reporting times and dates (REPORTED_TIME, REPORTED_DATE), and any variables related to the classification or reporting of multiple biases. Specifically, AGE_BIAS was removed because it contained only the constant value “None,” suggesting that hate crimes in this dataset are rarely motivated solely by the victim’s age.

Additionally, the MENTAL_OR_PHYSICAL_DISABILITY variable, which initially used “No” to denote a lack of bias, was modified to use “None” instead to maintain consistency with the other bias columns. No new variables were constructed, but this cleaning process ensured that the dataset was aligned and ready for analysis focused on the key bias categories.

To handle the NAs in the location type column, rows with NAs location type is removed when doing relative analysis, it is not removed when analysis is irrelevant to location type.

2.3 Data Analysis

Table 1: Summary Statistics

Year	Race	Ethnicity	Religion	Gender	Sexual Orientation	Disability	Total
2018	28	15	81	11	19	0	154
2019	31	15	71	12	23	0	152
2020	69	36	95	5	21	2	228
2021	114	27	96	21	34	1	293
2022	95	29	99	17	40	0	280
2023	91	46	185	12	60	0	394
Total	428	168	627	78	197	3	1501

Table 1 provides a detailed summary statistic of the cleaned data, illustrating the number of hate crimes committed each year, categorized by specific bias types, along with the total occurrences for each category and the overall total of hate crimes annually. The table indicates that, on average, there are approximately 250 hate crime incidents reported each year in Toronto over the past six years. Notably, incidents motivated by religious bias consistently represent the highest proportion among the various bias types, underscoring a significant area of concern for community safety and policy interventions. This data highlights not only the prevalence of hate crimes but also the specific biases that warrant focused attention and resources for prevention and support initiatives.

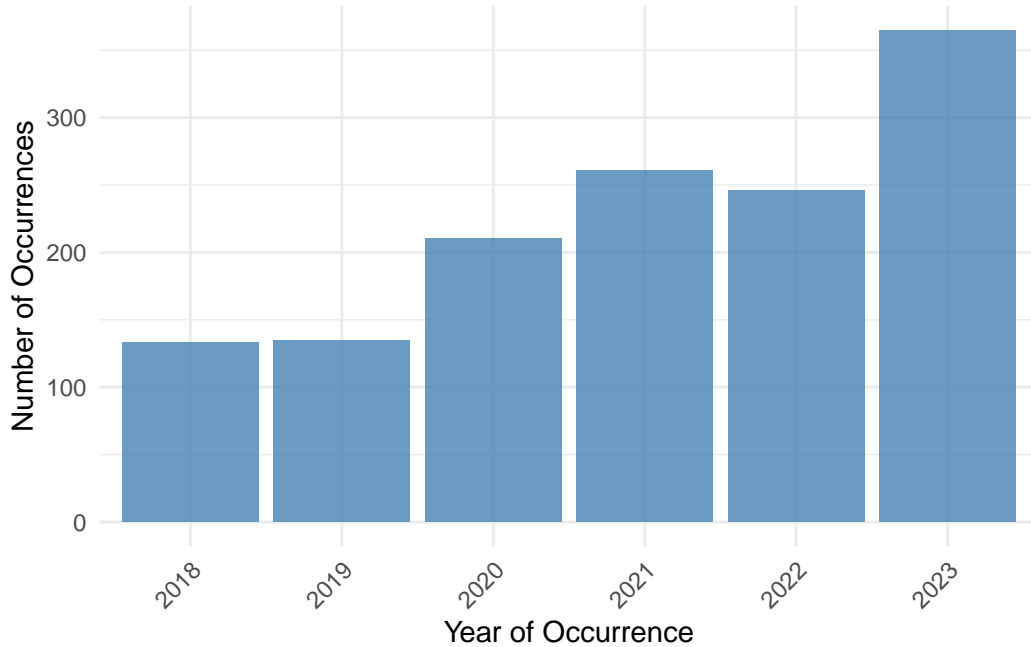


Figure 1: Occurrences of Hate Crimes by Year

Figure 1 illustrates the annual occurrences of hate crimes from 2018 to 2023. The data indicates a clear upward trend in the number of reported hate crimes over this period. Starting from approximately 154 occurrences in 2018, there is a steady increase each year, culminating in a significant rise to over 392 occurrences in 2023.

This trend may suggest a growing prevalence of hate crimes within the community, possibly influenced by various social, political, and economic factors. Additionally, it could reflect an increase in public awareness and reporting of such incidents, as societal attitudes toward hate crimes continue to evolve. This increase raises important questions about the underlying causes and necessitates further investigation into the factors contributing to the rise in these offenses.

Overall, the increasing trend in hate crime occurrences highlights the importance of ongoing efforts in awareness, prevention, and intervention strategies to address the root causes of hate-driven behavior in society.

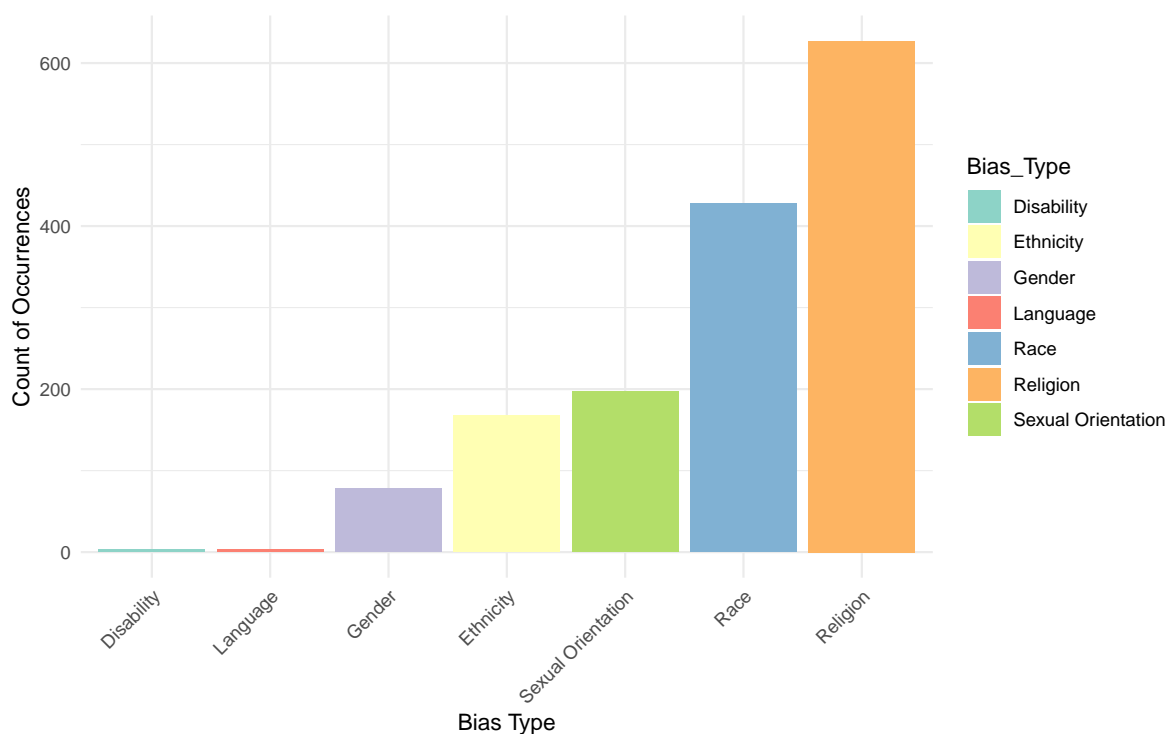


Figure 2: Count of Occurrences Based on Different Bias Types

Figure 2 presents the total occurrences of hate crimes over the past six years, categorized by the type of bias involved. The data reveals that hate crimes motivated by ethnicity bias are the most frequently reported, underscoring significant concerns for ethnically targeted offenses within the community. In contrast, hate crimes related to disability bias are notably underreported.

This discrepancy may not solely reflect the actual prevalence of such crimes; rather, it also highlights potential biases in measurement and reporting. While hate crimes based on ethnicity can often manifest as attacks on community spaces, disabled individuals frequently experience isolation, lacking the community structures that might support them in reporting incidents. This isolation can lead to underreporting of hate crimes, as many victims may not feel a sense of community or empowerment to come forward. Additionally, the unique barriers faced by individuals with disabilities, including fear of stigma and difficulties accessing reporting mechanisms, compound this issue.

Additionally, the low reporting of hate crimes motivated by language bias also highlights potential biases in measurement and reporting. Many people may associate language with ethnicity, leading them to prioritize ethnicity over language in their perceptions of hate crimes. This tendency can obscure the realities faced by victims of language bias, further complicating the understanding of hate crime dynamics.

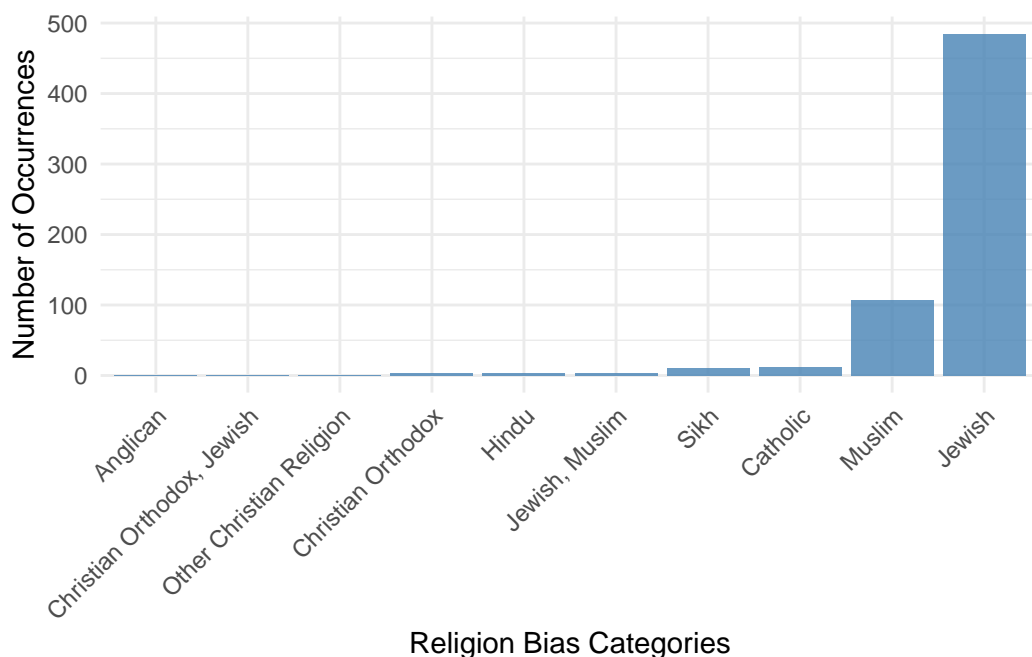


Figure 3: Occurrences of Hate Crimes by Religion Bias

Figure 3 illustrates the occurrences of hate crimes categorized by different religion bias types. The data reveals that, while a significant portion of hate crimes is directed toward individuals based on religion, Jewish individuals are disproportionately affected, facing the highest number of reported incidents. This trend underscores a critical concern regarding the targeting of Jewish communities, which highlights the ongoing issues of anti-Semitism within society.

Figure 4 displays the percentage of hate crimes targeting Jewish individuals compared to other religious groups since 2018. The data reveals fluctuations in the proportion of hate

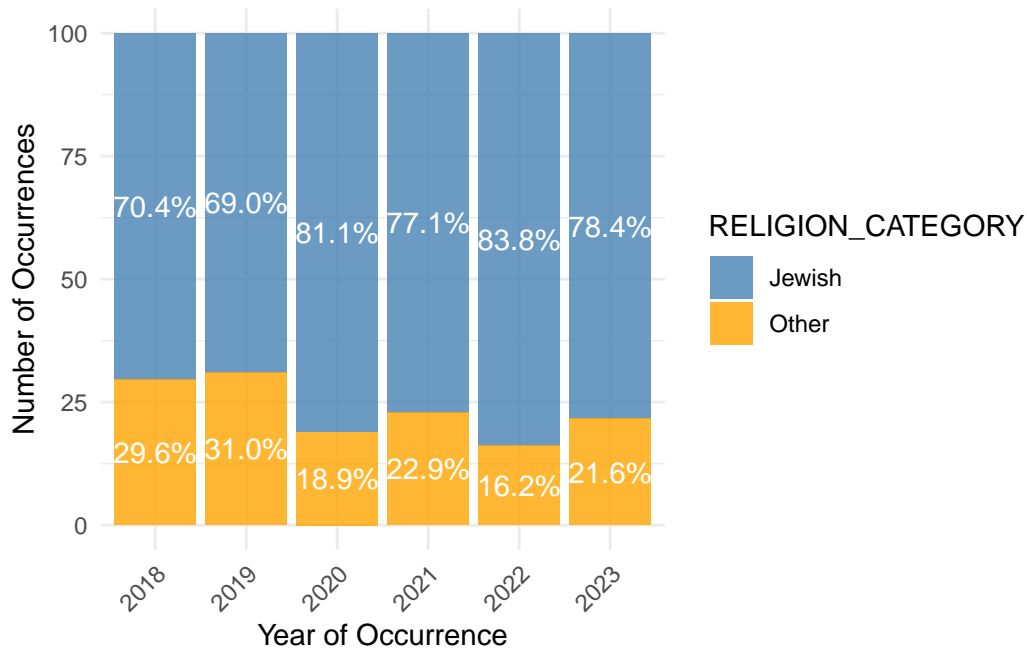


Figure 4: Trends in Hate Crimes by Religious Bias: Jewish vs. Other Religions

crimes directed toward Jewish people. Specifically, the percentage has varied, with notable increases in certain years—rising from 70% in 2018 to 83% in 2022, followed by a slight decline to 78% in 2023. While this does not indicate a steady increase, it highlights consistent high levels of hate crimes against Jewish individuals, with occasional variations across the years. This trend suggests a sustained and significant targeting of the Jewish community.

Figure 5 illustrates the distribution of hate crimes against Jewish individuals across various locations. The data reveals that a significant portion of these offenses occur in educational institutions, particularly schools, indicating that Jewish students and staff may be especially vulnerable in these settings. This highlights a pressing concern regarding the safety and well-being of Jewish individuals within the educational environment.

In contrast, hate crimes reported at cultural centers are considerably less frequent. This suggests that these venues, which often function as community hubs for Jewish populations, may offer a safer atmosphere or are less likely to be targeted for such offenses.

The stark difference between the frequency of hate crimes in schools compared to cultural centers prompts critical questions regarding the factors that contribute to these disparities. Understanding the dynamics of these environments can guide targeted initiatives aimed at enhancing safety and raising awareness in high-risk areas, particularly schools, where Jewish individuals face heightened risks of victimization.

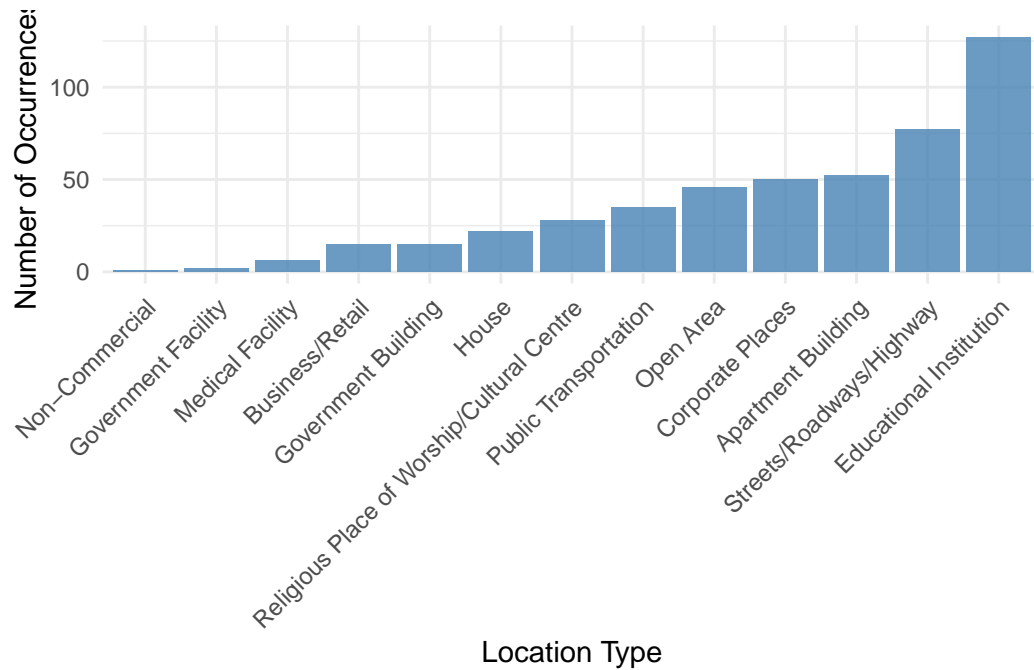


Figure 5: Occurrences of Hate Crimes by Primary Offence for Jewish Bias

3 Results

Our results are summarized in `?@tbl-modelresults`.

4 Discussion

4.1 First discussion point

If my paper were 10 pages, then should be be at least 2.5 pages. The discussion is a chance to show off what you know and what you learnt from all this.

4.2 Second discussion point

4.3 Third discussion point

4.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

Appendix

A References