Hate Crimes in Toronto: Increasing Hates Towards Jewish People and Growing Incidents in Public Spaces*

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22 September 2024

Hate crime data provide crucial insights into underlying biases and social dynamics. This paper uses data from Open Data Toronto to analyze the distribution of hate crimes from 2018 to 2023, focusing on biases and locations. The findings reveal that Jewish people are the most frequently targeted, with incidents continuing to rise, followed by Black individuals. Additionally, nearly half of the crimes occurred in public spaces or transportation.

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^{*}Code and data in this analysis is available at: https://github.com/Elaineyi1/hate_crimes_in_toronto

1 Introduction

The issue of hate crimes is a global concern. Hate crimes are typically defined as criminal offences committed against a person or property based solely on the victim's identity, such as race, religion, sexual orientation, gender, or disability (Roberts 1995). Beyond the harm they inflict on individual victims, hate crimes foster fear and division within society. As one of the world's most diverse cities, Toronto has experienced a rising number of hate crimes, which prompts widespread public concern. This trend highlights the urgent need for effective interventions that can address the root causes of such crimes. To better reduce hate incidents and develop strategies, it is important to analyze hate crime data — specifically, whether criminals are targeting particular groups and, if so, which ones.

This paper utilizes data from Open Data Toronto to explore the distribution of hate crimes by bias and location from 2018 to 2023. The biases examined include race, religion, and mental or physical disability. The locations considered are various regions in Toronto and different types of settings where crimes occur. The results show that a significant proportion of hate crimes were directed at Black individuals and Jewish people, accounting for approximately 16% and 31% of incidents, respectively. About half of the crimes occurred in public spaces or transportation, and about half were property crimes, with increasing trends observed in educational and commercial/business settings.

The structure of this paper is as follows: The data utilized for analysis is introduced in Section 2. Following that, Section 3 presents visualizations and analysis of the data. Section 4 then discusses the findings in a broader context, addresses limitations and outlines potential next steps. This analysis is conducted using the programming language R (R Core Team 2022) and the following packages: opendatatoronto (Gelfand 2022), dplyr (Wickham et al. 2023), tidyverse (Wickham et al. 2019), here (Müller 2020), janitor (Firke 2023), knitr (Xie 2014), ggplot2 (Wickham 2016).

2 Data

2.1 Data Overview and Measurement

A hate crime is a criminal offence committed against a person motivated by bias and prejudice (OpenDataToronto 2024). This analysis uses hate crime data from Open Data Toronto, covering verified hate crime occurrences from 2018 to 2023, updated annually. The dataset categorizes crimes by various bias types, such as age, disability, race, ethnicity, language, religion, sexual orientation, and gender. Provided by the Toronto Police Service, this dataset aims to enhance community awareness and public safety (TorontoPoliceService 2024).

The variables or measurements included in the dataset are ID, occurrence time (time, date and year), reported time (time, date and year), police division, location type, various bias categories

(age, disability, race, ethnicity, language, religion, sexual orientation, and gender), the primary offence related to the hate crime, neighbourhood, and arrest status. I also created two new variables: occurrence_month, derived from the occurrence date, and division_area, which groups the 17 police divisions, including 'NSA', into 5 regions of Toronto, with an additional 'Other' category. The data is provided at the occurrence level. The location of Hate Crime occurrences have been grouped to the neighbourhood level to protect the privacy of parties and communities involved in the occurrence.

The raw dataset contains 1350 hate crimes. After cleaning, 1287 rows remain. This analysis mainly focuses on biases related to disability, race, and religion, as well as the time and location of hate crimes.

2.2 Data Cleaning

Missing values have been removed from the dataset. A new column occurrence_month has been created by extracting the month from the occurrence_date.

The religion_bias column has been cleaned by consolidating various Christian denominations into a single 'Christian' category, while mixed biases have been excluded. Similarly, the unclear values in the race_bias column, such as 'Black, South Asian', have been removed. The location_type column has been regrouped to simplify the categorization. Additionally, a new column primary_offence_simplified has been mutated to group primary offenses into major categories, such as 'Assault' and 'Property Crimes'. Finally, the dataset has been modified to include a simplified division_area column based on police divisions.

3 Results

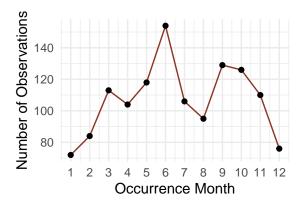


Figure 1: Monthly Occurrences of Hate Crimes in Toronto From 2018 to 2023

Figure 1 provides an overview of hate crime occurrences by month, showing that June has the highest number of crimes, with over 150 cases. The second-highest number of crimes occurs in September and October, with numbers decreasing to their lowest in winter, as December, January, and February see the fewest hate crimes.

Figure 2 illustrates the trend in hate crimes by racial bias from 2018 to 2023. The figure shows a sharp increase in hate crimes from 2019 to 2020, followed by another significant rise between 2022 and 2023. Most of these crimes do not demonstrate a specific racial bias; however, among those that do, Black individuals are the most frequent targets. Hate crimes targeting Black individuals notably surged starting in 2020, with a slight decline in 2023. There was also a marked rise in crimes against East and Southeast Asian communities in 2021, followed by declines in 2022 and 2023. Additionally, hate crimes against South Asian individuals began to increase slightly in 2021.

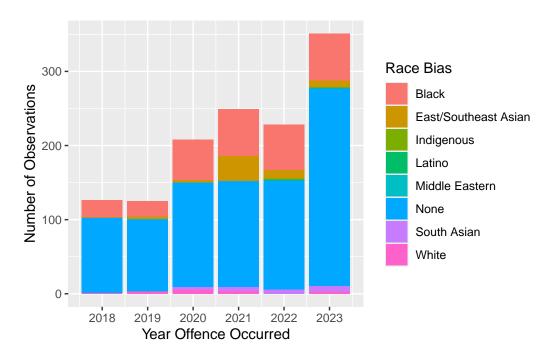


Figure 2: Trends in Hate Crimes by Race Bias From 2018 to 2023

Figure 3 presents the trend in hate crimes motivated by religious bias from 2018 to 2023. Compared to race bias, the proportion of crimes categorized as 'None' is smaller, indicating that a higher percentage of hate crimes are driven by religious motivations. Each year, nearly half of these crimes targeted Jewish individuals, with a significant increase observed from 2022 to 2023. The proportion of crimes targeting Muslims declined after 2020 but showed an increase again in 2023. Additionally, a relatively higher number of crimes against Catholics is also observed in 2020.

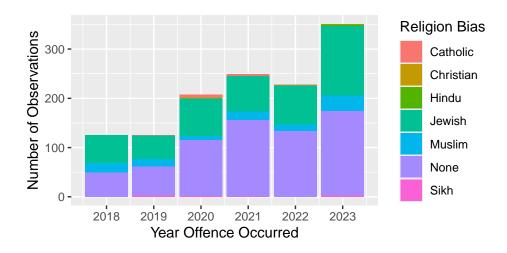


Figure 3: Trends in Hate Crimes by Religion Bias From 2018 to 2023

As shown in Figure 4, the most common location type for hate crimes is public spaces/transportation, followed by educational and residential areas. A sudden increase in crimes in public spaces/transportation occurred in 2020, remaining high until 2023. Starting in 2021, the number of hate crimes in educational settings increased. Crimes in commercial/business, government and religions buildings all rose in 2023.

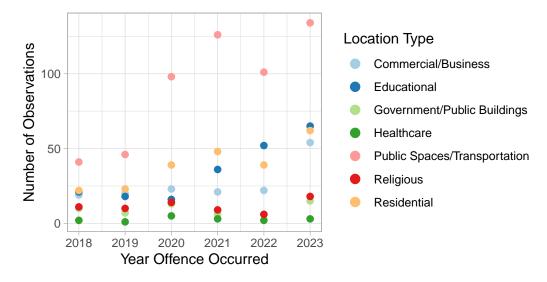
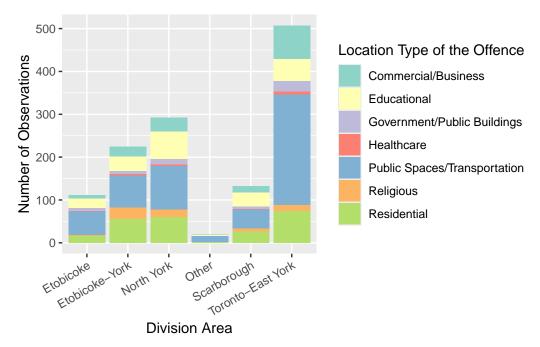
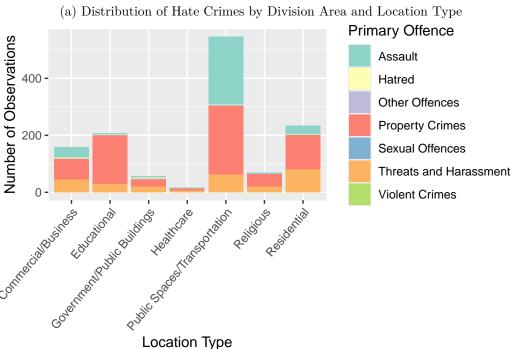


Figure 4: Trends in Hate Crimes by Location Type of the Offence From 2018 to 2023

Figure 5 (a) shows the distribution of hate crimes by location type and division area. The Toronto-East York region recorded the highest number of crimes, followed by North York, Etobicoke-York, and Scarborough, with Etobicoke seeing the fewest. Similar to Figure 4, public spaces and transportation had the most crimes, particularly in Toronto-East York and Etobicoke. Residential crimes were more prevalent in North York and Etobicoke-York, while educational settings saw higher crime rates in Scarborough and North York. Crimes in commercial/business settings were notably higher in Toronto-East York, while religious crimes were more frequent in Etobicoke-York.

Figure 5 (b) displays the distribution of hate crimes by primary offence and location type. Property crimes were overwhelmingly the most common offense across all locations, except for public spaces and transportation, where assault occurred at nearly the same rate. Threats and harassment also contributed to a significant portion of crimes, particularly in residential and commercial buildings.





(b) Distribution of Primary Offence by Location Type

Figure 5: Number of Hate Crimes by Primary Offence Across Different Areas

As shown in Table 1, only 3 out of 1,287 hate crimes were motivated by disability bias, a significantly lower number compared to other factors such as religion and race.

Table 1: The Number of Hate Crimes Based on Suspect's Perception of Victim's Mental or Physical Disability

Mental or Physical Disability Bias	Count
NO	1284
YES	3

Table 2 highlights the proportions of hate crimes targeting six groups, which are age, mental or physical disability, religion, race, gender, and sexual orientation. The most significant proportion of hate crimes targeted Jewish individuals, accounting for 31.2% of cases, with no biases related to race, gender, or sexual orientation. Black individuals experienced the second-highest proportion at 16.1%, followed by incidents where no specific bias was identified at 10.9%. Hate crimes against Muslim individuals constituted 7.4% of the total. Crimes targeting individuals based on sexual orientation, particularly those identifying as gay or 2SLGBTQ+, represented a combined 11.1% of incidents. Other notable proportions include crimes against East/Southeast Asian individuals at 4.6% and South Asian individuals at 1.5%.

Table 2: The Proportion of Hate Crimes Based on Six Factors

	Mental or				Sexual	
Age	Physical	Religion			Orientation	
Bias	Disability	Bias	Race Bias	Gender Bias	Bias	Proportion
NO	NO	Jewish	None	None	None	0.3123543
NO	NO	None	Black	None	None	0.1608392
NO	NO	None	None	None	None	0.1095571
NO	NO	Muslim	None	None	None	0.0738151
NO	NO	None	None	None	Gay	0.0582751
NO	NO	None	None	None	2SLGBTQ+	0.0536131
NO	NO	None	East/Southe Asian	eaMone	None	0.0466200
NO	NO	Jewish	Black	None	None	0.0388500
NO	NO	None	None	Transgender Woman (Identifies As Woman)	None	0.0170940
NO	NO	None	South Asian	None	None	0.0147630

4 Discussion

4.1 Race and Religion Biases

Hate crimes in Toronto involving race and religion biases are often influenced by global and local events. The rise in hate crimes against East and Southeast Asian communities during 2020 and 2021 could be attributed to the outbreak of COVID-19. As the pandemic spread, harmful stereotypes and misinformation likely led to xenophobia and hate. This resulted in a surge of racially motivated hate crimes, reflecting a pattern of pandemic-related discrimination seen in many places around the world. The return to normal life in 2022 and 2023 could contribute to the reduction in hate incidents. Similarly, the sharp rise in hate crimes against Black individuals from 2019 to 2020 coincides with heightened racial tensions and movements like Black Lives Matter, which gained global attention following incidents of police brutality. The significant increase in hate crimes targeting Jewish communities in 2023 appears to be tied to the Israeli-Palestinian conflict. Numerous parades and protests took place in Toronto last year, and as attention on the conflict grew, it is likely that some individuals committed hate crimes against Jewish people in response. The rise in anti-Muslim hate crimes in 2023 could be related to similar international dynamics or to ongoing Islamophobia exacerbated by media portrayals of global events. In 2020, controversies involving the Catholic Church, such as discussions around clerical abuse scandals or abortion, may have intensified negative sentiments toward Catholics, leading to an increase in hate crimes against this community.

4.2 Regions and Locations

The prevalence of hate crimes in public spaces and transportation can be attributed to several factors. First, these areas are easily accessible and often crowded, allowing individuals to commit crimes with less fear of being identified. Second, the crowded environment makes it easier to carry out random acts of violence, such as pushing someone onto a subway track. The Toronto-East York region, with its large population, naturally has a higher number of hate crimes, particularly in public and commercial locations. The presence of numerous commercial buildings and public transportation options contributes to this trend. The prevalence of residential crimes in North York and Etobicoke-York may also be due to the significant amount of residential development in these regions. Since assaults are easier to commit in public spaces than in private areas, it follows that property crimes are the most common offences across all locations, except for public spaces and transportation, where assaults are as frequent as property crimes. Furthermore, the fact that most hate crimes are property crimes may be linked to the economic and social pressures experienced after the pandemic.

4.3 Limitation

This dataset only includes confirmed hate crimes and does not account for occurrences deemed unfounded or classified as hate incidents. Additionally, some hate crimes may go unreported due to victim fear or distrust of law enforcement, causing potential biases. For instance, crimes occurring in households might be underrepresented, as victims may feel more vulnerable knowing the perpetrator has access to their home address, unlike crimes committed in public spaces. Furthermore, the dataset, covering only the years from 2018 to 2023, may overlook long-term trends in hate crimes.

4.4 Next steps

To effectively reduce hate crimes, it would be beneficial to collect data on the motivations behind these incidents. Understanding the differences between property crimes and those explicitly targeting individuals based on bias could provide valuable insights.

While most victims report hate crimes within a day, some do not report until ten days later. Future research could focus on the reasons behind delayed reporting and the factors contributing to victim fear. Collaborating with local organizations and advocacy groups could enhance support for affected communities and help develop targeted prevention strategies.

References

- Firke, Sam. 2023. Janitor: Simple Tools for Examining and Cleaning Dirty Data. https://github.com/sfirke/janitor.
- Gelfand, Sharla. 2022. Opendatatoronto: Access the City of Toronto Open Data Portal. https://CRAN.R-project.org/package=opendatatoronto.
- Müller, Kirill. 2020. Here: A Simpler Way to Find Your Files. https://here.r-lib.org/.
- OpenDataToronto. 2024. "Open Data Dataset Open.toronto.ca." https://open.toronto.ca/dataset/hate-crimes-open-data/.
- R Core Team. 2022. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.
- Roberts, Julian V. 1995. "Disproportionate Harm: Hate Crime in Canada." https://canada.justice.gc.ca/eng/rp-pr/csj-sjc/crime/wd95_11-dt95_11/wd95_11.pdf.
- TorontoPoliceService. 2024. "Hate Crimes Open Data Data.torontopolice.on.ca." https://data.torontopolice.on.ca/datasets/TorontoPS::hate-crimes-open-data/about.
- Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. https://ggplot2.tidyverse.org.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.
- Wickham, Hadley, Romain François, Lionel Henry, Kirill Müller, and Davis Vaughan. 2023. Dplyr: A Grammar of Data Manipulation. https://dplyr.tidyverse.org.
- Xie, Yihui. 2014. "Knitr: A Comprehensive Tool for Reproducible Research in R." In *Implementing Reproducible Computational Research*, edited by Victoria Stodden, Friedrich Leisch, and Roger D. Peng. Chapman; Hall/CRC. http://www.crcpress.com/product/isbn/9781466561595.