

Exploring Mate Competition As A Driver OF Anti Refugee Hate Crime*

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The study looks into the complex aspects of hate crimes against refugees. It explores an aspect of mate competition among native men that is often ignored by researchers. This research on Germany, drawing from comprehensive data indicates a correlation between number of hate crime and imbalances in the local mating market. The original survey findings also support that individual level support for hate crime increases when men perceived an inflow of refugees as a threat to their own access to women. These concerns about mate competition persist even after accounting for job competition, anti-refugee sentiments and general frustration. In trying to understand hate crime and immigrant conflict, the study points out the necessity to consider marriage markets. Based on this, there is need for further inquiry within similar environments in order to draw conclusive generalizations about them as well as stressing on racism and hate crimes to be dealt with urgently in policy and practice.

1 Table of Contents

- Table of Contents
- Introduction:
 - Historical Trends in Hate Crimes
 - Theoretical Framework
- Data:
 - Methodological Approach

*Code and data are available at: [<https://github.com/o8RaV/Exploring-Mate-Competition-as-a-Driver-of-Anti-Refugee-Hate-Crime/tree/main>]

- Survey Measures
 - Tools
- Results:
 - Ecological Findings
 - Individual-Level Evidence
- Discussion:
 - Policy Implications
 - Future Research Directions
 - Comparative Analysis
 - Intersectionality
 - Public Discourse and Media Influence
- References

2 Introduction

2.1 Historical Trends in Hate Crimes

Anti-migrant hate crime has been a long-standing global issue, with fluctuating incidence across time and space. Research has shown that hate crimes against refugees vary from one locality to another, raising questions about the factors leading to this disparity. Existing studies suggest that hate crime may be influenced by demographic change, economic decline, and competition for resources, such as jobs and housing [Guilmoto (2012)](Koopmans 1996). Moreover, concerns over mate competition have been emerging in public discourse, indicating the potential impact of dating and marriage markets on influencing individual threat perceptions of refugees and the endorsement of hate crimes against this group [Dancygier and Green (2010)](Dancygier et al. 2021).

Studies have demonstrated a positive correlation between structural conditions and hate crime incidence, with economic dislocation, demographic changes, and ethnic status dominance being potential determining factors [Koopmans (1996)](Green, Strolovitch, and Wong 1998). While past research has yielded mixed support for the influence of economic and demographic factors on hate crimes, it has also underscored the role of contextual features in shaping perpetrator types and motivations [Back (1996)](Koopmans 1996). Understanding historical trends in hate crimes requires a comprehensive investigation of the contextual, economic, and demographic conditions that contribute to the prevalence of anti-migrant hate crimes in different localities [Hopkins (2010)](Campbell 2013).

2.2 Theoretical Framework

The theoretical framework of anti-migrant hate crime delves into the interplay of structural factors, individual perpetrator characteristics, and contextual determinants in influencing attitudes and behaviors related to hate crimes against refugees. Studies have highlighted how economic decline, demographic change, and competition for resources can lead to frustration and aggressive behavior, including hate crimes [Koopmans (1996)](Belchem 2014). Moreover, the concept of mate competition has emerged as a new theoretical lens in understanding the dynamics of anti-migrant hate crime (Dancygier and Green 2010).

The theoretical foundation of mate competition as a catalyst for anti-migrant hate crime emphasizes the potential impact of dating and marriage markets on individual attitudes and threat perceptions towards refugees [Arnocky et al. (2014)](Dancygier et al. 2021). It incorporates the influence of skewed sex ratios, competition for romantic partners, and demographic shifts in shaping attitudes towards hate crimes directed at outsiders. The theoretical framework offers insights into the factors driving support for hate crimes against refugees and underscores the need for a deeper understanding of the social, economic, and demographic dynamics that underpin anti-migrant hate crime trends.

3 Data

3.1 Methodological Approach:

The study conducted a survey using an online platform to collect data on attitudes toward refugees, perceptions of mate competition, and support for hate crime. The survey included nationally representative samples and used list experiments to mitigate social desirability bias in responses (Blair and Imai 2010). By employing a multi-wave survey design, the study aimed to capture changes in attitudes over time and across different samples and survey firms (Hager and Veit 2019).

The study also incorporated ecological analysis by examining contextual factors such as gender imbalances and their potential influence on attitudes toward refugees and support for hate crime. The ecological analysis provided valuable insights into how structural conditions, demographic changes, and local government efficiency might shape the prevalence of hate crime in different areas [Jäckle and König (2017)](Wakefield 2017).

3.2 Survey Measures:

The survey included a battery of variables measuring respondents' views about the national and local repercussions of refugees. Additionally, it incorporated items gauging perceived mate competition and support for hate crime, such as the statement "Mate Competition: The inflow of refugees makes it more difficult for native men to find female partners." These survey measures aimed to capture individual attitudes and perceptions that could potentially drive support for anti-refugee hate crime (Dancygier et al. 2021).

The study also conducted list experiments and direct questioning to assess respondents' support for hate crime. By analyzing responses to multiple goal-oriented hate crime items and elite sanctions, the study aimed to provide a comprehensive investigation of attitudes toward anti-migrant hate crime. This approach allowed for a nuanced understanding of the factors influencing support for hate crime and the expression of sincere attitudes (Long 2022).

3.3 Tools

In crafting my paper, I leveraged a diverse array of tools and references to ensure comprehensive analysis and presentation. The foundation of our data manipulation and analysis was laid using the versatile capabilities of R, with key packages such as dplyr (Wickham et al. 2022) and readr (Wickham, Hester, and Bryan 2023) facilitating efficient data handling. Visualization and tabular presentation were enhanced through the integration of Huxtable (Hugh-Jones 2022) and kableExtra (Zhu 2021), offering polished and informative displays. The statistical rigor of our findings was underpinned by methodologies outlined in Modern Applied Statistics with S (Venables and Ripley 2002) and diagnostic techniques from Zeileis and Grothendieck (Zeileis

and Hothorn 2002). Additionally, our research drew upon insights from recent studies such as those by Garbuszus et al. (Garbuszus and Jeworutzki 2021), Jeudy (Jeudy 2022), and Moreau (Moreau and Wang 2022), as well as census data provided by Statistics Canada (Government of Canada, Statistics Canada 2023). This meticulous approach, combined with the accessibility and reproducibility afforded by tools like Knitr (Xie 2014) and jtools (Long 2022), enabled us to construct a robust and insightful narrative regarding the complex dynamics of our subject matter.

4 Results

4.1 Ecological Findings:

The ecological findings from the study demonstrate a clear link between mate competition and the incidence of hate crimes against refugees. The analysis indicates that in areas where native men face greater obstacles in the mating market, there is a higher incidence of anti-refugee hate crimes. This empirical evidence supports the argument that concerns over mate competition contribute to the perpetration of hate crimes against refugees (Arnocky et al. 2014). Furthermore, the study shows that the effect of mate competition on hate crime support remains significant even when controlling for alternative explanations related to economic competition, xenophobia, frustration, and aggressiveness (Bowling 1998). These findings provide valuable insights into the structural conditions that underpin anti-migrant behavior and emphasize the role of mate competition in theories of immigrant conflict and integration (Bowling 1998).

4.2 Individual-Level Evidence:

The individual-level evidence gathered from representative surveys further strengthens the link between mate competition and the endorsement of anti-refugee hate crime. The study reveals that individuals, especially men in the most active mating age range, are more likely to endorse violent acts against refugees if they perceive refugees as posing a threat to their mating prospects. Specifically, Germans who believe that the inflow of refugees makes it more difficult for native men to find female partners are more likely to support the use of violence against refugees (Arnocky et al. 2014). The study also addresses concerns regarding the validity of measuring hate crime support and demonstrates that support for violent actions, including hate crimes, can be reliably assessed using survey measures (Buss and Perry 1992). These individual-level findings provide strong support for the argument that perceived refugee-native mate competition increases support for anti-refugee hate crime (Arnocky et al. 2014).

4.3 Public Discourse and Media Influence:

The study sheds light on the role of public discourse and media representation in shaping attitudes towards refugees, mate competition, and hate crimes (Hassan 2019). It underscores the influence of mainstream and right-wing media in framing narratives about relationships between refugee men and native women (Charter 2021). Understanding the impact of media narratives on public perceptions and attitudes is crucial for addressing fears and tensions related to mate competition and gender imbalances. Additionally, the findings align with Figure 1, which depicts the relationship between excess males at the municipality level and individuals' perceived mate competition, emphasizing the broader societal influences on attitudes towards refugees and hate crimes.

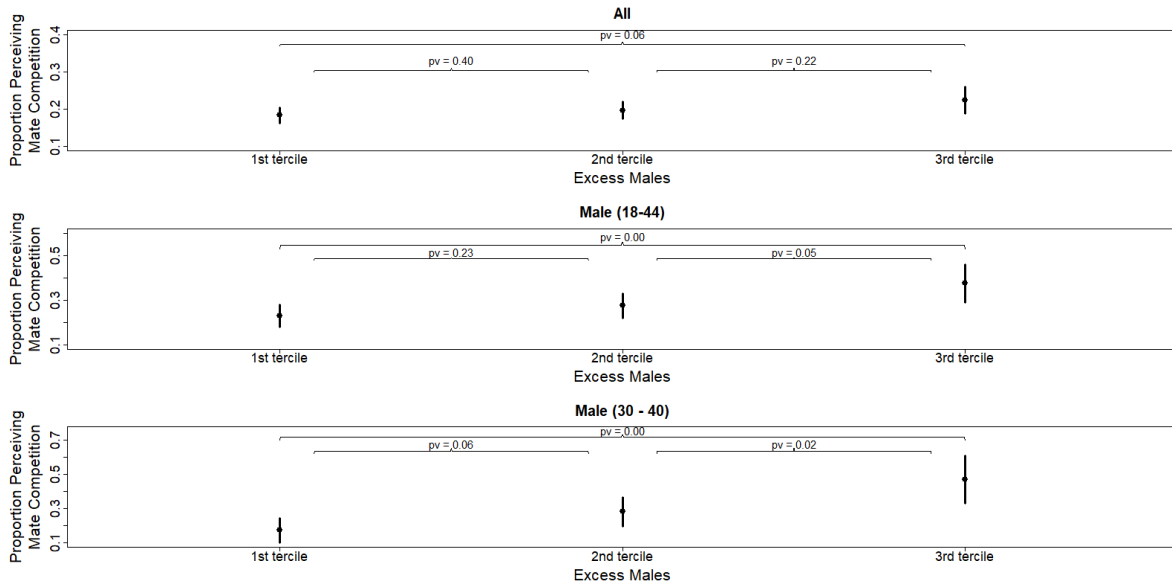


Figure 1: ExcessMales at theMunicipality Level and Individuals' PerceivedMate Competition

5 Discussion

5.1 Policy Implications:

The findings of the study highlight the need for policy measures to address fears and anxieties stemming from mate competition between native men and refugees (Dancygier 2020). It suggests the necessity of considering local gender imbalances and their potential impact on intergroup tensions, particularly in areas where there are shortages of marriageable men (Wakefield 2017). Furthermore, the research emphasizes the importance of risk assessment strategies that take into account local sex ratios and employ allocation schemes to prioritize

the protection of refugees in municipalities with excess males (Choi, Poertner, and Sambanis 2019). These policy implications are underscored by Figure 2, which illustrates the effect of excess males on the predicted probability of observing at least one hate crime, emphasizing the tangible impact of demographic factors on hate crime occurrence.

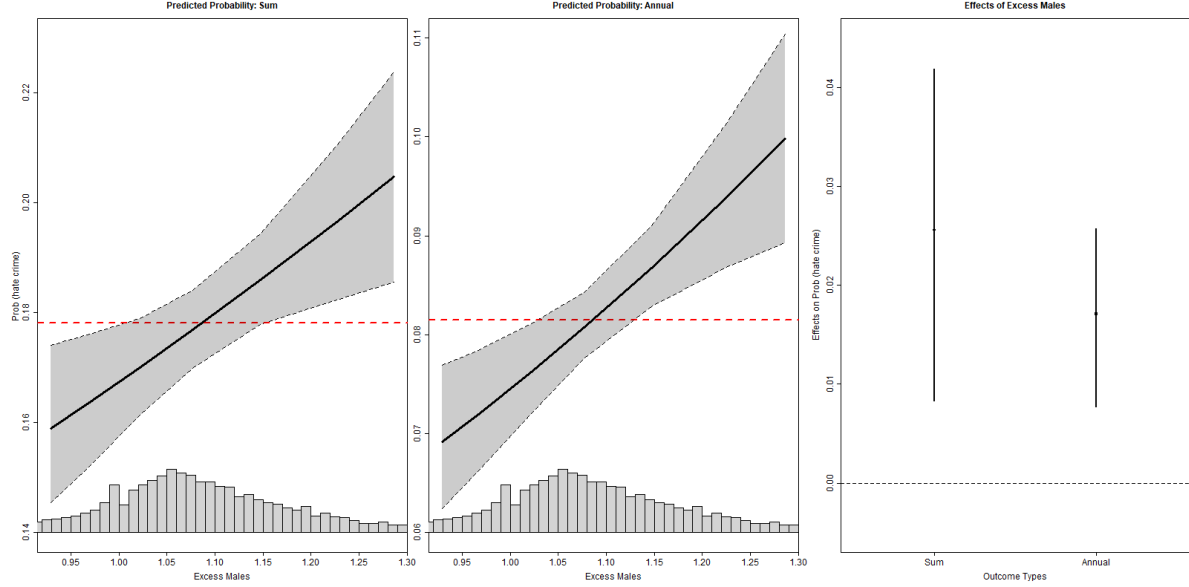


Figure 2: The Effect of ExcessMales on the Predicted Probability of Observing at Least One Hate Crime

5.2 Future Research Directions:

Future research should focus on systematically incorporating mate competition and marriage markets into theories of immigrant conflict and integration (Dancygier et al. 2021). Replicating the study's analyses in diverse settings and demographic contexts would extend its empirical and theoretical contributions (Egami 2018). Additionally, investigating the intersection of gender imbalances, mate competition, and ethnic tensions in developing countries could provide valuable insights into the universality of these dynamics (Jäckle and König 2017). Such research directions align with the findings presented in Figure 3, which depicts the estimated effects of mate competition on support for hate crime, emphasizing the need for further exploration of these factors in different socio-cultural contexts.

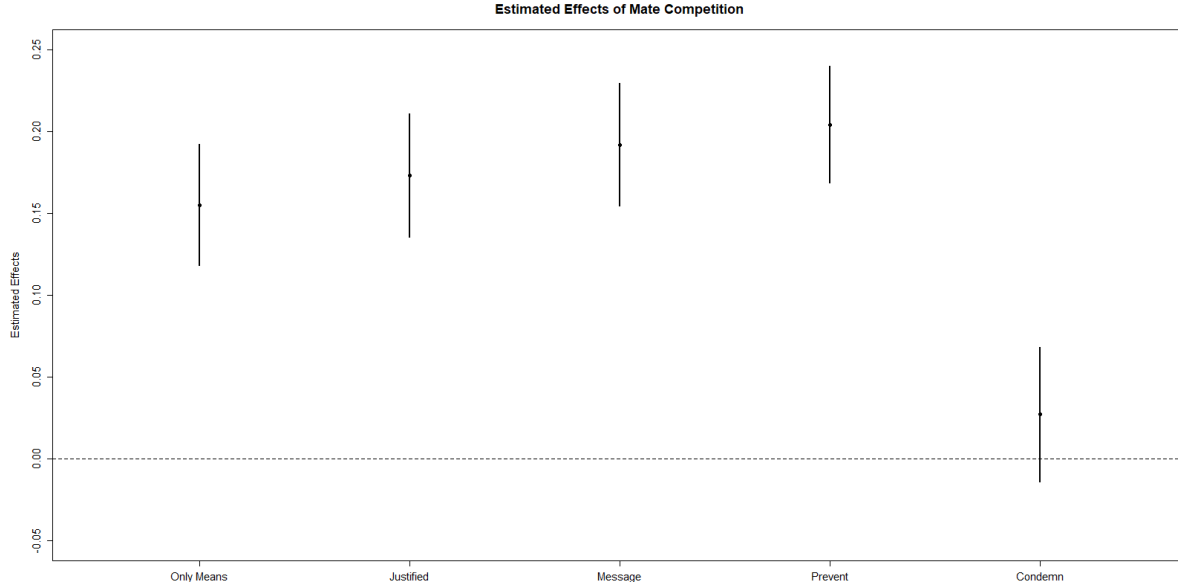


Figure 3: Estimated Effects of Mate Competition on Support for Hate Crime

5.3 Intersectionality:

The research underscores the importance of incorporating intersectional factors, such as gender imbalances and mate competition, into the study of hate crime and anti-migrant behavior (Dancygier and Green 2010). By examining the ways in which local mating markets intersect with social identities, the study contributes to an intersectional analysis of intergroup conflicts and tensions (Dancygier et al. 2021). Future research should further explore how these intersectional dynamics shape the experiences of both native populations and refugees. This call for intersectional analysis is complemented by the insights provided in Figure 4, which presents regression results displaying coefficients for mate competition fears and hate crime support while controlling for various variables, highlighting the nuanced interplay between mate competition fears and hate crime attitudes.

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Mate Competition	0.437 *** (0.016)	0.263 *** (0.020)	0.236 *** (0.021)	0.206 *** (0.019)	0.185 *** (0.019)	0.155 *** (0.019)
Job Competition		0.250 *** (0.019)	0.236 *** (0.019)	0.077 *** (0.020)	0.065 *** (0.020)	0.056 *** (0.019)
Life Satisfaction		-0.015* (0.006)	-0.014 (0.007)	-0.003 (0.006)	-0.002 (0.006)	-0.0001 (0.006)
Socio-Demographics			X	X	X	X
National Attitudes Toward Refugees				X	X	X
Local Attitudes Toward Refugees					X	X
Additional Controls						X
<i>N</i>	3019	3019	3008	3008	3008	3008
<i>R</i> ²	0.191	0.240	0.288	0.394	0.410	0.459

Figure 4: Regression Results Displaying Coefficients for Mate Competition Fears and Hate Crime Support

5.4 Comparative Analysis:

The study provides insights into the comparative dynamics of hate crime and anti-refugee behavior across different countries (Koopmans 1996). It emphasizes the need to compare local mating markets and their implications for intergroup tensions in various socio-cultural settings (Campbell 2013). A comparative analysis of the intersection of gender imbalances, mate competition, and violence against refugees can offer a broader understanding of these phenomena and their variation across different national and regional contexts (Hager and Veit 2019). Such comparative analyses are essential for elucidating the contextual factors that shape attitudes towards refugees and hate crimes, as highlighted in Figure 5, which presents the proportion of respondents who agree with each of the four hate crime statements in Wave 2, offering insights into cross-cultural variations in attitudes towards hate crimes.

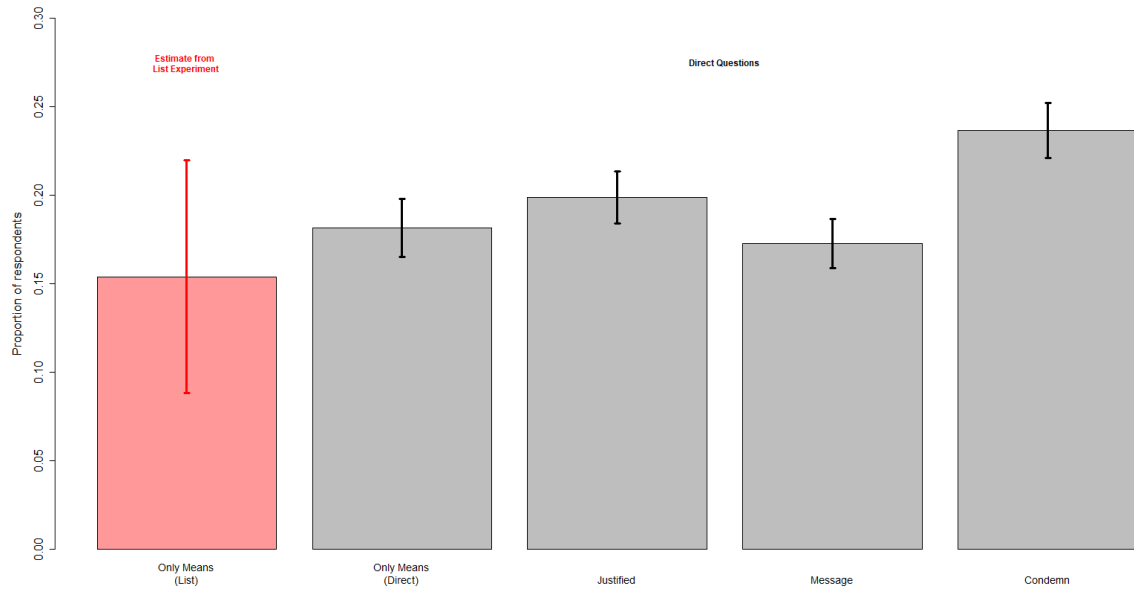


Figure 5: Proportion of Respondents Who Agree with Each of the Four Hate Crime Statements in Wave 2

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