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### I HAVE NOTHING AGAINST THEM, BUT...

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### ABSTRACT

We study the use of excuses to justify socially stigmatized actions, such as opposing minority groups. Rationales to oppose minorities change some people's private opinions, leading them to take anti-minority actions even if they are not prejudiced against minorities. When these rationales become common knowledge, prejudiced people who are not persuaded by the rationale can pool with unprejudiced people who are persuaded. This decreases the stigma associated with anti-minority expression, increasing public opposition to minority groups. We examine this mechanism through several large-scale experiments in the context of anti-immigrant behavior in the United States. In the first main experiment, participants learn about a study claiming that immigrants increase crime rates and then choose whether to authorize a publicly observable donation to an anti-immigrant organization. Informing participants that others will know that they learned about the study substantially increases donation rates. In the second main experiment, participants learn that a previous respondent authorized a donation to an anti-immigrant organization and then make an inference about the respondent's motivations. Participants who are informed that the respondent learned about the study prior to authorizing the donation see the respondent as less intolerant and more easily persuadable.

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Randomized controlled trials registry entry are available at https://www.socialscienceregistry.org/trials/5308 and https://www.socialscienceregistry.org/trials/5462

## 1 Introduction

How do anti-minority movements gain traction in societies that stigmatize anti-minority expression? A growing body of evidence suggests that propaganda, political rhetoric, and mass media have substantial effects on people's willingness to engage in xenophobic actions against immigrants and other minorities (Enikolopov and Petrova, 2015; Zhuravskaya et al., forthcoming). For example, radio propaganda contributed to increased killings during the Rwandan genocide (Yanagizawa-Drott, 2014) and anti-Semitic expression in Nazi Germany (Adena et al., 2015). More recently, inflammatory tweets posted by US President Donald Trump have led to more anti-Muslim hate crimes (Müller and Schwarz, 2018).

While these studies demonstrate that the media has a causal impact on xenophobic behavior, the underlying mechanisms remain unclear. The most-studied channel is persuasion: for example, one might attribute the growing wave of anti-immigrant rhetoric and violence in the United States to private attitudes toward immigrants becoming more negative.<sup>1</sup> Yet survey evidence suggests quite the opposite. Indeed, both Democrats and Republicans reported feeling, if anything, more *warmly* toward both legal and illegal immigrants in 2018 than in 2014 (Gonzalez-Barrera and Connor, 2019). Consistent with this observation, recent experimental work finds relatively small or null effects of information on immigration policy preferences (Hopkins et al., 2019; Alesina et al., 2019; Grigorieff et al., 2018). Together, the survey and experimental evidence suggest that mechanisms beyond persuasion may be driving trends in public anti-minority expression.

In this paper, we propose an alternative mechanism through which the media might affect public behavior. By creating *common knowledge* about rationales to oppose minorities, whether true or false, the media generates excuses for publicly expressing otherwise-stigmatized positions. For example, consider people who oppose immigration from Mexico simply because they dislike Mexicans, yet cannot express this opposition in a public setting without incurring social costs. Once an anti-Mexican rationale becomes common knowledge (e.g., a politician claims that Mexican immigrants bring crime into the country), these people are given an excuse: they can attribute their position to a belief that Mexican immigrants commit more crime, even if they privately do not believe the rationale is true. Alternatively, they can attribute their stance to a deep-seated concern about crime, even if they privately are not particularly concerned. The key point is that common

<sup>&</sup>lt;sup>1</sup>For example, the number of white nationalist hate groups in the United States has grown by 55 percent since January 2017. ("White Nationalist Hate Groups Have Grown 55% in Trump Era, Report Finds." *The Guardian*, March 18, 2020.) Islamophobic rhetoric among elected officials at all levels of government has also increased substantially. ("Islamophobia in the US: It Goes Way beyond Trump." *Vox News*, April 6, 2018.)

knowledge of the excuse opens up explanations — other than intolerance — for their anti-Mexican positions, reducing the extent to which they expect observers to update about their intolerance and thus increasing their willingness to express their private views. Thus, even if the rationale has no direct persuasive impact, it can serve as an excuse as long as it is plausible that *others* might be persuaded.

Politicians often use excuses to great effect. US President Donald Trump, for example, launched his campaign on a narrative that Mexican immigration leads to violent crime. This rationale allowed Trump to pursue aggressive anti-immigration policies while maintaining plausible deniability about their motivations: when asked about Trump's immigration policies, 49 percent of voters answered that they were motivated by a "sincere interest in controlling our borders", while 41 percent answered that they are motivated by "racist beliefs" (Snow, 2019). In addition, and often simultaneously, politicians can also serve as *suppliers* of excuses, using their platform to generate common knowledge about rationales for otherwise-stigmatized policies and thus emboldening their supporters to publicly voice their positions. For example, the Reagan campaign popularized the notion of the "welfare queen" to appeal to racist stereotypes about African-American single mothers (Mendelberg, 2001); more recently, politicians exaggerate the severity of voter fraud in order to reduce the size of the opposing party's electorate (Cohen, 2012).

To illustrate the intuition behind the excuse effect and motivate our experiments, consider a setup with two agents: senders and receivers.<sup>2</sup> Both agents are first exposed to an anti-immigrant rationale. The sender then chooses whether to engage in an anti-immigration action (for example, donating to an anti-immigrant organization). The receiver observes the sender's decision and makes an inference about the sender's motives. Agents differ on two privately-known dimensions. First, some of them are tolerant toward immigrants, while others are not. Second, some agents are persuaded to donate when they learn the rationale — *regardless of their tolerance type*. This could be because they are easily influenced by the rationale (e.g., they are gullible and easily persuaded by information from untrustworthy sources) or because they care more than others about the consequences associated with the rationale, and thus are willing to act even if the probability they assign to the rationale being true is low.<sup>3</sup> Senders receive expressive utility from making a donation decision consistent with their own tolerance type as well as social utility from leading the receiver

<sup>&</sup>lt;sup>2</sup>We formalize this intuition with a simple model in Appendix A.

<sup>&</sup>lt;sup>3</sup>We thus define persuasion as in Kamenica (2019): "influencing behavior via provision of information". Differences in persuasion may arise from differences in the extent to which information shapes beliefs *or* because some agents care more about the consequences associated with the rationale (e.g., low-skilled natives who worry more than high-skilled natives that increased low-skilled immigration will threaten their employment prospects).

to believe that they are of the same tolerance type.

Consider a situation in which the rationale for donating to the anti-immigrant organization is privately known to both the sender and the receiver, but it is *not* common knowledge. Since the receiver is not aware that the sender has been exposed to the rationale, the receiver will infer with certainty that the sender is intolerant if he decides to donate, and the sender may thus choose not to donate. This inference changes dramatically if the rationale is common knowledge: when the receiver knows that the sender has been exposed to the rationale, the receiver understands there are two potential reasons the sender might have donated: the sender might be intolerant, or the sender might be *persuadable* (e.g., the receiver might think the sender is gullible or that the sender is particularly worried about the consequences associated with the rationale). To the extent that being persuadable is less stigmatized then being intolerant, the common knowledge of the justification reduces the social cost of donating and increases donation rates by allowing intolerant senders to pool with agents with a "good reason to donate" – in essence, pretending that their motivation for donating is the anti-immigrant rationale rather than their intolerance.

Motivated by this framework, we present three experiments, all studying rationales for reducing or eliminating immigration into the US. Such rationales have been widely cited to support antiimmigration positions, particularly during the presidential campaign and administration of Donald Trump. Important examples of such justifications include the claim that immigrants increase crime rates, steal jobs from Americans, and place an undue burden on American taxpayers.<sup>4</sup>

At the time of writing, in May 2020, a particularly salient rationale for reducing immigration is to protect citizens from contagious diseases.<sup>5</sup> In a motivating survey experiment conducted in May 2020 among a broadly representative sample of 1,121 Republicans, we examine whether people are more willing to *publicly* support a *permanent* ban on immigration from Mexico when they can attach a justification to their public statement. We ask respondents to indicate whether they support the ban. Respondents in the Excuse condition are told that their publicly-posted individual decision will read "I support a permanent ban on Mexican immigration to protect the US from contagious diseases, such as the coronavirus"; respondents in the No Excuse condition are

<sup>&</sup>lt;sup>4</sup>See, for example, "A quick history of Trump's evolving justifications for a border wall", *Vox News*, August 2019. Ivana Trump explained her position on immigration from Mexico as follows: "I have nothing against Mexicans, but if they [come] here—like this 19-year-old, she's pregnant, she crossed over a wall that's this high...She gives the birth in American hospital, which is for free. The child becomes American automatically. She brings the whole family, she doesn't pay the taxes, she doesn't have a job, she gets the housing, she gets the food stamps. Who's paying? You and me." ("Donald Trump's Ex-Wife Says She Does Not Want '19-Year-Old Pregnant Mexican Women' Coming to the US", *The Independent*, April 5, 2016.)

<sup>&</sup>lt;sup>5</sup>See, for example, ("The Trump administration is using the pandemic as an excuse to target immigrants and asylum seekers." *Vox News*, May 15, 2020.).

instead told it will read "I support a permanent ban on Mexican immigration."<sup>6</sup> Thus, the key difference between the two conditions is whether a public justification is attached to respondents' support for the statement. 32 percent of respondents publicly support a permanent ban on Mexican immigration when they do not have an excuse, while 51 percent of respondents support a permanent ban on Mexican immigration when provided with the excuse (p < 0.001). This motivating evidence suggests a quantitatively important role of excuses in shaping the public expression of xenophobic views.

To understand the mechanisms by which excuses influence behavior, we turn to two large-scale online experiments. In Experiment 1, we investigate whether people strategically use excuses to avoid the social stigma associated with publicly expressing intolerant views, examining one of the most common justifications for limiting immigration: the claim that immigrants increase crime rates. We recruit a broadly representative sample of 3,728 Republicans and Independents and study whether they are more willing to publicly undertake an anti-immigrant action — authorizing a donation to "Fund the Wall," an organization working to fund the proposed wall along the US– Mexico border — when they have an excuse available. We begin by informing participants about a recent study (Lott, 2018), which finds that undocumented immigrants in Arizona commit crimes at substantially higher rates than comparable US citizens.<sup>7</sup> We then give participants the opportunity to authorize a \$1 donation to Fund the Wall. We tell participants that we will post their individual donation decisions on our website, and that in order to communicate our research findings to the public, we will publicize the website among residents in their city. This generates a real social cost of authorizing a donation, particularly in areas where respondents expect the majority of the population to disapprove of the donation.

Identifying the "excuse effect" requires disentangling it both from the direct effect of persuasion ("first-order" persuasion) and from a change in anticipated social approval associated with changes

<sup>&</sup>lt;sup>6</sup>To rule out that the effect in the Excuse condition is driven by an increased salience of the disease protection rationale, we ask all respondents in the No Excuse condition before asking the main question: "Do you worry that Mexican immigration could make the country more vulnerable to contagious diseases, such as the coronavirus?"

<sup>&</sup>lt;sup>7</sup>The Trump administration has cited this study repeatedly as evidence for the impact of illegal immigration on crime. For example, in a January 2018 speech on "national security and immigration priorities of the administration," then-Attorney General Jeff Sessions claimed that the study proved that "tens of thousands of crimes have been committed in this country that would never have happened if our immigration laws were enforced and respected like they ought to be". (Sessions, Jeff. "Attorney General Sessions Delivers Remarks on National Security and Immigration Priorities of the Administration." *Justice News*, January 26, 2018.) We also inform respondents that many researchers have challenged the study's validity (Nowrasteh, 2018), and to further ensure that they are not left with a distorted view of the relationship between immigration and crime, we provide respondents with a short summary of the empirical evidence on the effects of immigration on crime and a link to a relevant meta-analysis at the end of the experiment (Ousey and Kubrin, 2018). In contrast to the study we cite, most work generally find that undocumented immigratis commit crimes at rates similar to or lower than comparable US citizens.

in the audience's beliefs ("second-order" persuasion). We hold first- and second-order persuasion fixed across the Excuse and No Excuse condition by (i) informing participants in both conditions about the study and (ii) making it clear that the website on which their donation decisions will be posted will also contain information about the study, such that all visitors will learn about the study before viewing individual donation decisions. Thus, the key treatment varies only the availability of an excuse for donating. In particular, participants in the Excuse condition see that their audience will learn that they knew about the Lott study when making the donation decision, while participants in the No Excuse condition believe that their audience will *not* know that they knew about the Lott study.

We find a large and statistically significant excuse effect on participants' willingness to publicly donate to Fund the Wall. Participants in the Excuse condition are 6.3 percentage points (13%) more likely to authorize the donation than respondents in the No Excuse condition (p < 0.001). To benchmark the effect size, we compare the donation rate in a control condition—in which participants are not informed about the study, and implicitly believe that website visitors will also not be informed—with the donation rate in the No Excuse condition, which allows us to identify the joint effect of first- and second- order persuasion. We find that this joint effect is small relative to the "excuse effect." This again suggests a quantitatively important role of commonly known excuses relative to the direct and indirect effects of persuasion. Moreover, the effect is driven by participants who live in more liberal areas, suggesting that participants more strongly require excuses when their audience is likely to disapprove of their actions. Evidence from a number of different exercises suggests that experimenter demand effects are not driving our results.

In Experiment 2, conducted with a broadly representative sample of 3,047 Democrats, we study whether the availability of an excuse influences how respondents interpret xenophobic actions.<sup>8</sup> In particular, we truthfully inform our respondents that we have matched them with a respondent from another study who took authorized a donation to Fund the Wall. All respondents in this experiment are informed about the same Lott study. Our key experimental variation is to vary whether our subjects believe that their matched respondent knew about the study before making their decision: subjects in the Excuse condition are matched with a respondent who knew about the study before making their decision, whereas subjects in the No Excuse condition are matched with a respondent who did not know about the study. We investigate whether subjects infer that

<sup>&</sup>lt;sup>8</sup>We are particularly interested in how excuses affect judgment vis-a-vis an audience that *disapproves* of the action, as this is precisely the audience before which an agent may require an excuse. We thus focus on Democrats, who are most likely to disapprove of the decision to donate to Fund the Wall.

participants who had an excuse for donating are less intolerant than participants who donated without an excuse. We also examine whether subjects infer that participants who had an excuse for donating did so for another reason — because they are gullible and were persuaded by the study despite its methodological flaws.

To most closely capture the natural process of inference and to avoid priming respondents, we first measure participants' beliefs about their matched respondents' motives for donating to Fund the Wall using an open-ended question, directly measuring what "comes to mind" through a pre-registered text analysis procedure. We then turn to more structured measures of beliefs: half of the participants make an incentivized guess about their matched respondent's score on a test measuring cultural tolerance, while the other half make an incentivized guess about their matched respondent's score on a test measuring gullibility.<sup>9</sup>

We find strong treatment effects on both measures of type inference. In describing why they believed their matched respondent chose to donate to Fund the Wall, participants matched with a respondent who had no excuse for donating are 7 percentage points (70%) more likely to use a word related to intolerance (p < 0.001) and 3 percentage points (43%) less likely to use a word related to gullibility (p < 0.001) relative to participants matched with a respondent who had a rationale. We find similar treatment effects on the structured belief measures: participants believe that a matched respondent with an excuse scored 0.14 standard deviations lower on the intolerance scale (p < 0.001), and 0.32 standard deviations higher score on the gullibility scale (p < 0.001). Taken together, our evidence from suggests that publicly known rationales for xenophobic behavior strongly influence how an audience updates about the underlying motives.

Our paper builds on a theoretical literature on the effects of social image concerns on economic and moral decision-making (Bénabou et al., 2018; Bénabou and Tirole, 2006). Most closely related is Bénabou et al. (2018), which presents a theoretical model of the production and circulation of arguments justifying actions on the basis of morality and shows that by downplaying externalities, narratives allow people to maintain a positive image while acting selfishly. We also build on a growing empirical literature studying the effect of social image concerns on political and economic outcomes (including moral behavior, as in Falk 2017 and Lacetera and Macis 2010;

<sup>&</sup>lt;sup>9</sup>Of course, gullibility is only one of a set of possible "second types." Holding fixed the extent to which two agents believe the rationale and those agents' tolerance, one agent may choose to donate while the other does not because she is more risk-averse, because she will be more affected in the event that the rationale is true, or because her costs of donating are lower, among other potential reasons. We focus on this single "second type" to discipline our exercise for a number of reasons: it is (arguably) the most natural "second type," it was the most frequent reason cited in our pilot results, and it is more easily coded than other possible types.

voting, as in DellaVigna et al. 2017; campaign donations, as in Perez-Truglia and Cruces 2017; educational investments, as in Bursztyn et al. 2019 and Bursztyn et al. 2017b; health investments, as in Karing 2018; and political activism, as in Cantoni et al. 2019 and Hager et al. 2019). Kuran (1997) argues that "preference falsification"—expressing a public view distinct from (often opposite of) one's private view in order to conform to perceived social norms—can have dramatic consequences for political equilibria. Bursztyn et al. (2017a) show that updating views about Donald Trump's popularity eliminates the gap between public and private support for an anti-immigrant organization. Similarly, Bursztyn et al. (2020b) find that experimentally correcting misperceptions about the acceptability women working outside the home in Saudi Arabia increases the probability that a woman will accept a job outside of the home. Relative to existing work, which generally highlights a single type dimension on which respondents signal and update (Bénabou and Tirole, 2006), a key contribution of this paper is to show that people can strategically use information to influence how others will assess their motives on two dimensions with important consequences for publicly-observable behavior. Thus, in contrast to previous work showing that one's beliefs about others' opinions matter for public behavior, we show that one's beliefs about how others will update about one's own motives also have significant effects on one's willingness to express an otherwise-stigmatized view. We therefore highlight the importance of excuses, which can be created by political entrepreneurs and the media, in facilitating xenophobic expression.

Our work also adds to a literature on the effects of media and propaganda on political and economic behavior (DellaVigna and La Ferrara, 2015; La Ferrara, 2016; Banerjee et al., 2019; La Ferrara et al., 2012; Bursztyn et al., 2020a). Prior literature on the effects of media on violence (Yanagizawa-Drott, 2014; Müller and Schwarz, 2018), protest participation (Enikolopov et al., forthcoming), and other public outcomes are generally unable to cleanly distinguish between direct persuasion and social image concerns arising from changes in higher-order beliefs. We examine how the media can generate rationales to violate social norms, leading to changes in public behavior even in the absence of persuasive influence. In this sense, our work may help explain the puzzle of why the effects of information provision are relatively small in lab settings yet seemingly large in the field.

Finally, our study relates to a literature on moral "wiggle room" and recent work on "implicit preferences" (Cunningham and de Quidt, 2016). Several lab studies (e.g., Dana et al. 2007; Hamman et al. 2010; Lazear et al. 2012) show that the availability of even weak rationales to behave selfishly (e.g., choosing not to click a button to reveal a matched respondent's payoffs) has substantial

effects on behavior. For example, Exley (2016) finds that individuals use risk as a rationale to avoid donating to charitable causes. Because decisions in these settings are anonymous, these findings can be understood through a behavioral model of self-signaling, as in Bénabou and Tirole (2011) or, in some cases, by social image concerns vis-a-vis the experimenter. Other work has studied settings where decisions are observable, generating social image concerns. Andreoni and Bernheim (2009) find that increasing the probability that the dictator's choice will be ignored and the recipient allocated an unfavorable amount reduces generosity by giving the dictator "plausible deniability" vis-a-vis the recipient. Conversely, Ariely et al. (2009) show that extrinsic incentives for prosocial behavior can crowd out image motivation (a possibility suggested by Bénabou and Tirole 2006), which can in our framework be interpreted as a "reverse excuse" that decreases the extent to which the audience updates about an agent's prosociality in light of a prosocial action. Our work highlights the use of commonly known rationales to generate excuses in important political contexts and sheds light on how these excuses are interpreted.

The remainder of this paper proceeds as follows. In Section 2, we present online experiments showing that commonly known rationales increase xenophobic expression. In Section 3, we present an additional online experiment examining how the availability of an excuse affects the interpretation of xenophobic actions. Section 4 discusses robustness of our experimental findings to attrition and experimenter demand. We discuss policy implications and conclude in Section 5. In the Appendix, we formalize our mechanism through a two-type signaling model and include additional tables and figures, along with the full set of experimental instructions.

## 2 Excuses and Xenophobic Expression

We begin by examining whether agents strategically use excuses to disguise their intolerance toward immigrants. We first present motivating evidence from a survey experiment conducted in May 2020. We then present the results from a large-scale experiment conducted in January 2020.

#### 2.1 Motivating Survey Experiment

In May 2020, we conducted a survey among a broadly representative sample of 1,121 Republicans in partnership with Luc.id, a widely used online survey panel provider (Wood and Porter, 2019).<sup>10</sup>

<sup>&</sup>lt;sup>10</sup>All survey instruments are available in Appendix C. Appendix Table C1 presents summary statistics and compares our sample to the Pew American Trends Panel, confirming that our sample is indeed broadly representative. Appendix Table C2 confirms that demographic characteristics of respondents are balanced across treatment condi-

During this time (and at the time of writing) the United States and the world were grappling with the COVID-19 pandemic, and many nations, including the US, had implemented restrictions on travel from abroad in order to limit the spread of the virus. The presidential administration also used the COVID-19 pandemic and the economic crisis it precipitated as a justification to severely limit the issuance of green cards and to eliminate the STEM OPT program, which allowed graduates of US undergraduate institutions to remain in the country for one to three years to work in a related field.<sup>11</sup> A number of commentators argued that people were using coronavirus as an excuse for xenophobic behavior against Asian-Americans; moreoever, President Trump also claimed that the pandemic exacerbated the crisis on the US-Mexico border, renewing calls for the construction of a border wall.<sup>12</sup>

Motivated by these justifications, we inform participants that we are interested in their views on whether the United States should implement a *permanent* ban on immigration from Mexico. We tell participants that we will post their individual donation decision on our public study website, showing them a screenshot of an example of the website displaying respondents' support for the permanent ban on Mexican immigration. Participants are randomized into one of two conditions. Those in the Excuse condition are asked whether they agree with the statement that "I support a permanent ban on Mexican immigration to protect the US from contagious diseases, such as the coronavirus," and are informed that if they indicate that they agree with the statement, this is the wording that will appear on the study website. Those in the No Excuse condition are asked whether they agree with the statement that "I support a permanent ban on Mexican immigration." and, again, are informed that if they agree, this is the wording that will appear on the website. Thus, the key difference between the two conditions is whether a public justification is attached to respondents' support for the statement.<sup>13</sup> The findings, displayed in Figure 1 and Table 1, are striking: 32 percent of respondents publicly support a permanent ban on Mexican immigration when they do not have an excuse, while 51 percent of respondents support a permanent ban on Mexican immigration when provided with the excuse — a 59 percent, statistically significant increase (p < 0.001).

Our survey design holds "first-order" effects of persuasion constant, as respondents in both

tions.

<sup>&</sup>lt;sup>11</sup>See, for example, "Next Trump Immigration Target: OPT For International Students." Forbes, May 4, 2020.

<sup>&</sup>lt;sup>12</sup>See, for example, "Another Danger of COVID-19: Discrimination". UNICEF USA, April 10, 2020

<sup>&</sup>lt;sup>13</sup>To rule out that the effect in the Excuse condition is driven by an increased salience of the disease protection rationale, we ask all respondents in the No Excuse condition before asking the main question: "Do you worry that Mexican immigration could make the country more vulnerable to contagious diseases, such as the coronavirus?"

groups are informed of the justification for imposing a ban on immigration from Mexico. Yet is the difference between the Excuse and No Excuse condition driven by "second-order persuasion" — respondents in the Excuse condition believing that those who see their decision will be persuaded by the justification? Or, alternatively, is it driven by respondents believing that they will be judged less harshly when a justification for their support of the Mexican immigration ban is attached, *independent of whether or not their audience is persuaded by the justification*? To answer this question, we turn to our first main experiment.

#### 2.2 Experiment 1: sample and experimental design

We again worked with Luc.id to recruit 3,728 self-reported Republicans and Independents. In some specifications, we supplement this data with approximately 716 Republicans and Independents from a pilot experiment with Luc.id, also conducted in January 2020, that had nearly identical wording.<sup>14</sup> Participants were directed to our survey on the online platform *Qualtrics*; only participants who were over the age of 18, resided in the United States, indicated their consent to participate, and passed a simple test of attention were allowed to proceed.<sup>15</sup> Our sample of respondents is broadly representative of Independents and Republicans in the United States (Appendix Table C3) and well-balanced in terms of observables across treatment arms (Appendix Table C4). We pre-registered all experimental procedures and analyses. Figure 2 outlines the structure of Experiment 1.

**Information: Lott study** After completing a series of demographic questions, respondents are assigned to one of three different treatment conditions: an Excuse condition, a No Excuse condition, and a Control. Respondents in the Excuse and No Excuse condition receive information about a recent study (Lott, 2018) which finds that that "undocumented immigrants are at least 142% more likely to be convicted of a crime than other Arizonans. They also tend to commit more serious crimes and serve 10.5% longer sentences, are more likely to be classified as dangerous, and are 45% more likely to be gang members than U.S. citizens."<sup>16</sup> We also truthfully tell our respondents that a number of sources (including a researcher affiliated with the Cato Institute, a libertarian

 $<sup>^{14}</sup>$ We pre-registered reporting both results pooling pilot data with our main data and results with our main data alone.

<sup>&</sup>lt;sup>15</sup>All survey instruments are available in Appendix D.

<sup>&</sup>lt;sup>16</sup>This study has been widely covered by the media, including *The Washington Times*, *National Review*, and *Fox News*, and has been repeatedly cited by Trump administration officials. For example, in a January 2018 speech on "national security and immigration priorities of the administration," then-Attorney General Jeff Sessions claimed that the study proved that "tens of thousands of crimes have been committed in this country that would never have happened if our immigration laws were enforced and respected like they ought to be" (see footnote 5).

think tank) have recently challenged some of the study's methods, claiming that errors in analysis invalidate its results.<sup>17</sup> Respondents in the Control condition do not learn about the study.

**Donation decisions** To minimize experimenter demand concerns, we truthfully tell our respondents that we will randomly select one of two organizations, and the respondents will have the opportunity to authorize a \$1 donation to this organization. In practice, we randomized almost all of our respondents to Fund the Wall.

Visibility manipulation Our goal is to non-deceptively ensure participants believe their individual donation decision will be publicly observable. We ask respondents to consent to us accessing their name, city, and operating system from the survey provider (which confirmed that they would provide us with this data subject to participant consent) and give respondents the option to terminate the survey if they do not consent. We inform respondents that we will post the results from the survey, including their "individual donation decision," on our study website. However, even though all participants who completed the survey consented to us accessing their full names, we decided not to post names in order to avoid potentially compromising participants' privacy. We instead post anonymized study IDs alongside donation decisions, thus avoiding deception given that "individual donation decisions" are still posted.

We also inform our respondents that "we believe it is important to communicate our findings about political and social attitudes in [City of respondent] to the public".<sup>18</sup> We then inform our respondents that "we will work with major news organizations in [City of respondent] with both a liberal and conservative viewership to publicize our website through newspaper and website articles", and "we will also promote our website via Facebook ads to [City of respondent] residents". This non-deceptively generates a plausible social cost for acting in a way that will be stigmatized in the respondent's area.<sup>19</sup>

**Varying the availability of the excuse** Our main object of interest is to identify the excuse effect. This is complicated by the fact that providing information to respondents may affect their behavior through two alternative channels other than the availability of the excuse. First, the

<sup>&</sup>lt;sup>17</sup>In order to ensure that our respondents are not misinformed, we debrief them at the end of the study and provide them with a meta-analysis summarizing the work on the effects of immigration on crime (Ousey and Kubrin, 2018).

<sup>&</sup>lt;sup>18</sup>We used participants' IP address to capture and display their current location (i.e. their city). The IP addresses were subsequently deleted to protect the participant's privacy.

<sup>&</sup>lt;sup>19</sup>In practice, we do so by sending our working paper to news organizations and by publicizing the website via Facebook Advertisements.

information might be directly persuasive, leading more respondents to donate because their private views have changed. Second, even if the information does not persuade respondents, respondents might believe that their *audience will be persuaded* by the study's description on the website, leading respondents to expect lower social stigma from donating and thus increasing donation rates. We thus design our experiment to rule out these competing effects. To hold fixed the first mechanism, all respondents in the Excuse and No Excuse condition receive the same information about the study. To hold fixed the second mechanism, we show respondents in the Excuse and No Excuse conditions screenshots of our website, clearly indicating that all website visitors will be informed about the study.

The key experimental treatment thus cleanly varies the availability of an excuse for donating. In the Excuse treatment, we inform respondents that "Website visitors will know that you knew about the results of Dr. Lott's study," giving respondents an excuse to donate (i.e. believing, based on the findings of the Lott study, that illegal immigrants commit substantially more crime than citizens). Respondents also see a screenshot of the website, which clearly states that "All participants were told about Dr. Lott's study". Thus, respondents in the Excuse condition expect that their audience will know they learned about the study before donating.

Conceptually, in the No Excuse condition, we would like to show respondents a website screenshot stating that "No participants were told about Dr. Lott's study". However, because these participants did in fact learn about the study, such a screenshot would be deceptive. Instead, we exploit the fact that Lott's study had not yet been published in a journal, a fact about which we informed all respondents when describing the website. In particular, we show respondents a website screenshot stating that "We surveyed respondents earlier this year before Dr. Lott's study was published". In the survey, we write that "the website states that you were surveyed before the study was published and does not mention that you were shown an early summary of the study's findings". Respondents in this condition thus believe that their audience will believe that they (respondents) had no information excusing their decision to donate to fund the border wall.

**Control condition** We also include a Control condition in which neither the respondent nor the audience learns about the Lott study. This condition allows us to estimate the combined effects of direct persuasion and anticipated persuasion of the audience, as we describe below.

#### 2.3 Experiment 1: main results

**Empirical strategy** To identify the joint effects of direct persuasion and anticipated persuasion of the audience (i.e. the direct persuasive effect of learning about the Lott study in addition to the indirect effect of learning that one's audience has learned about the Lott study and may thus be more likely to approve of the donation), we compare the Control condition with the No Excuse condition. To identify the excuse effect, we compare the No Excuse condition to the Excuse condition. This design thus allows us to benchmark the excuse effect against the combined effect of first- and second-order persuasion. Our main specification of interest is given as follows:

$$y_i = \beta_0 + \beta_1 \operatorname{Excuse}_i + \beta_2 \operatorname{Control}_i + \varepsilon_i \tag{1}$$

where  $y_i$  is an indicator taking value 1 if the respondent authorized the donation to Fund the Wall and 0 otherwise; Excuse<sub>i</sub> is an indicator taking value 1 if the respondent was assigned to the Excuse condition and 0 otherwise; and Control<sub>i</sub> is an indicator taking value 1 if the respondent was assigned to the Control condition and 0 otherwise. The omitted category is thus the No Excuse condition. We employ robust standard errors throughout our analysis.

**Main findings** Table 2 and Figure 3 display the main findings of Experiment 1. We find a large and statistically significant effect on respondents' willingness to authorize a donation to Fund the Wall. Respondents in the Excuse condition are 6.3 percentage points more likely to authorize the donation than respondents in the No Excuse condition. This effect is highly statistically significant (p < 0.001), and large relative to a Control condition mean of 48.8 percentage points. Effect sizes are almost identical in our pre-specified main study and a pilot study. The estimated effects are also stable to the inclusion of demographic controls; Figure C1 presents a "coefficient stability plot" (Rao, 2020) displaying coefficient estimates under every possible combination of controls.

In contrast to the Excuse vs. No Excuse comparison, respondents in the No Excuse condition are only 0.007 percentage points more likely to authorize a donation than respondents in the Control condition, suggesting that the combined effects of first- and second-order persuasion are small. Relatively small persuasion effects are in line with other information provision experiments in the immigration domain, which typically find relatively small or null effects on behavior and stated preferences (Hopkins et al., 2019; Alesina et al., 2019; Grigorieff et al., 2018; Haaland and Roth, 2017). Thus, small effects of anticipated persuasion are consistent with agents holding accurate expectations about whether their audience will be persuaded.

Given the small joint effect of persuasion and the anticipated persuasion of the audience, what might explain the large excuse effect we observe? First, agents may simply hold incorrect higherorder beliefs: in particular, they may believe that their audience is more likely to believe that they have been persuaded by the information. Alternatively, they may predict that social rewards or sanctions associated with being perceived as intolerant are not linear in the probability that one is intolerant: for example, they may believe that as long as it appears that there is some small probability that they are not intolerant (i.e. because they were exposed to the study and may have been persuaded), their audience will refrain from socially sanctioning them ("innocent until proven guilty"). However, to preserve analytic tractability and convey our intuition as simply as possible, we do not formally model either of these channels.

Heterogeneity by local vote shares An implication of our model is that the audience's composition — the share of tolerant vs. intolerant agents — should affect donation decisions by changing the perceived judgment associated with donating. Because we informed respondents that we would promote the website (on which their individual donation decision would be posted) within their geographical area, we might expect that controlling for the respondent's own private views, respondents in areas with a greater fraction of Republicans should be less sensitive to the availability of a rationale than respondents in areas with a lower fraction of Republicans, since Republicans are likely to approve of the decision to donate to Fund the Wall even in the absence of a rationale. We thus pre-registered investigating heterogeneity by the 2016 Republican vote share of respondents' county, which we do by estimating the following specification:

$$y_{i} = \beta_{0} + \beta_{1} \text{Excuse}_{i} + \beta_{2} \text{Control}_{i} + \beta_{3} \text{Excuse}_{i} \times \text{Rep share}_{i} + \beta_{4} \text{Control}_{i} \times \text{Rep share}_{i} + \beta_{5} \text{Rep share}_{i} + \varepsilon_{i}$$

$$(2)$$

Table 3 displays the results, revealing striking heterogeneity by the Republican vote share of respondents' counties. In particular, the excuse effect is significantly larger for people from counties with a lower Republican vote share, consistent with our intuition that the excuse effect should be larger when the share of agents who privately approve of the action is smaller.

## 3 Excuses and Interpreting Xenophobic Expression

We now examine how the availability of a rationale changes how an audience interprets the decision to donate to Fund the Wall.<sup>20</sup> We are particularly interested in how excuses affect judgment visa-vis an audience that *disapproves* of the action, as this is precisely the audience before which an agent may require an excuse. We thus focus on Democrats, who are most likely to disapprove of the organization.<sup>21</sup> As we showed in Experiment 1, public behavior among people who live in counties with a lower Republican vote share is substantially more elastic to the availability of an excuse than public behavior among those who live in more Republican counties, suggesting that Democrats are indeed the relevant audience to consider when studying how excuses affect inference.

In our framework (which we formalize in Appendix A), a "sender" may donate to Fund the Wall for two reasons. First, they may be intolerant. Alternatively, they may have been persuaded to donate after being exposed to the anti-immigrant rationale. The audience observes the sender's donation decision, then uses this information to make an inference about the sender's motivations; the audience may or may not be persuaded by the rationale.<sup>22</sup> In this experiment, we study how the audience's inference about the sender's motivations is affected by the availability of an excuse.

#### 3.1 Sample

As in Experiment 1, we conducted Experiment 2 in partnership with the survey company Luc.id. We recruited a sample of 3,047 Democrats in February 2020.<sup>23</sup> Participants were directed to our survey on the online platform *Qualtrics*. Only participants who were over the age of 18, resided in the United States, indicated their consent to participate, and passed a simple test of attention were allowed to proceed. Our sample of respondents is broadly representative of Democrats in

<sup>&</sup>lt;sup>20</sup>All survey instruments are available in Appendix E.

<sup>&</sup>lt;sup>21</sup>As of January 2019, 6 percent of Democrats or Democratic leaners favored "substantially expanding the wall", compared to 82 percent of Republicans or Republican leaners (Pew, 2019).

 $<sup>^{22}</sup>$ Differences in persuasion may arise because some people are more gullible than others, and thus the posterior probability that these gullible types assign to the event that the story is true shifts further from their prior than that of non-gullible types. Alternatively, these differences may arise because some people will be more affected if the state of the world implied by the rationale is true, and thus they are more willing to donate than other agents even if they assign the *same* probability to the event that the rationale is true as other agents. Said differently, differences in persuasion may arise from differences in belief updating or from differences in payoffs. The definition of persuasion that we adopt—"influencing behavior via provision of information" (Kamenica, 2019)—applies to both possibilities, and thus we refer to "persuadable agents" without further distinguishing between the two potential underlying mechanisms.

<sup>&</sup>lt;sup>23</sup>In our pre-registration, we specified that in some specifications, we would pool data from a pilot (N = 2,019) with the data from the main experiment. The pilot instrument was virtually identical to the instrument used in the main experiment. We report both unpooled and pooled specifications.

the United States (Appendix Table C10) and well-balanced on observables across treatment arms (Appendix Table C11). All experimental procedures and analyses were pre-registered in the AEA RCT Registry. Figure 4 outlines the structure of Experiment 2.

#### 3.2 Experimental design

We tell all respondents about the Lott study, giving the same information and debriefing as in Experiment 1. We then tell participants that we conducted a project on political and social attitudes in the United States earlier in the year, and that respondents to this previous study were given an opportunity to authorize a \$1 donation to Fund the Wall, a nonprofit organization that seeks to reduce illegal immigration into the United States by helping to fund and construct the US-Mexico border wall. We make it clear that the respondents from this survey knew that their donation decision would be posted on our study website. We inform participants that we have matched them with one of these respondents, and that this respondent chose to authorize the donation. Respondents in the Excuse condition are (truthfully) told that their matched respondent was informed about the study before deciding whether or not to authorize the donation to Fund the Wall, while respondents in the No Excuse condition are (truthfully) told that their matched respondent was not informed about the study before making their donation decision.

**Measuring type inference** After learning whether or not their matched respondent knew about the study, all participants respond to the following open-ended question: "Why do you think your matched respondent chose to donate to Fund the Wall?" As we discuss in Section 3.3, these open-ended responses form the raw data for our first measure of type inference; we employ text analysis to systematically analyze the open-ended responses. Participants are then cross-randomized into one of two conditions: "tolerance" and "gullibility".<sup>24,25</sup> Participants in the "tolerance" condition are told that their matched respondent completed the "Foreign Culture Tolerance Scale," a "short questionnaire measuring tolerance toward foreign values and traditions," before making their donation decisions. Participants in the "gullibility" condition are told that their matched respondent completed the "Gullibility Scale," a "short questionnaire which measures how easily people are

<sup>&</sup>lt;sup>24</sup>Of course, as described above, gullibility is only one of a set of potential reasons for donating after being exposed to information suggesting immigrants commit more crimes; alternative reasons include lower tolerance for crime, higher levels of risk aversion, etc. We focus on gullibility in our experiment because it is (arguably) the most natural "second type," because it was the most frequent reason cited in our pilot results, and because it is more easily coded.

 $<sup>^{25}</sup>$ We measure type inference using a "between" design (in which each respondent is asked only about a single dimension) rather than a "within" design (in which respondents are asked about both dimensions). We employ a between design in order to minimize experimenter demand effects and to avoid order effects (Charness et al., 2013).

manipulated by evidence from untrustworthy sources," before making their donation decisions. All participants are asked to guess their respondent's score; we incentivize this guess by informing them that if they correctly guess the score, they will be entered into a lottery for a \$50 Amazon gift card.<sup>26</sup>

#### 3.3 Main results

**Empirical strategy** To identify the effect of the excuse on respondents' inference about the matched respondent's type, we estimate the following empirical specification:

$$y_i = \alpha_0 + \alpha_1 \operatorname{Excuse}_i + \varepsilon_i, \tag{3}$$

where  $\text{Excuse}_i$  is an indicator taking value 1 for participants in the Excuse condition and value 0 in the No Excuse condition.  $y_i$  is our participant's belief about the matched respondent's type. We employ robust standard errors throughout.

**Main findings** We begin by using text analysis to measure how participants respond to the openended question "Why do you think your matched respondent chose to donate to Fund the Wall?" The advantage of this approach is that we can directly measure what comes to respondents' minds rather than drawing their attention to the particular dimensions we are interested in. Measuring type inference through analyzing open-ended text responses may thus better capture the natural process of inference than directly asking about perceptions of tolerance or gullibility.<sup>27</sup>

We began with five "seed words" for each type. For (in)tolerance, we chose *racist*, *biased*, *xenophobic*, *intolerant*, and *prejudiced*. For gullibility, we chose *convinced*, *persuaded*, *gullible*, *naive*, and *sucker*. We added all "most relevant" synonyms for these words, as classified by the website www.thesaurus.com. In order to capture different parts of speech, we then stemmed all words in

<sup>&</sup>lt;sup>26</sup>The previous study respondents with whom Experiment 2 subjects were matched completed a survey very similar in structure to our Experiment 1 survey, but the two surveys were not precisely the same. In particular, it was important that Experiment 2 subjects believe that their matched respondents completed the scale *before* learning about the Lott study and before making their donation decision, such that subjects' inferences about their matched respondents' scores were not biased by subjects believing that learning about the Lott study changed their matched respondents scores. However, administering these scales in this manner to participants in Experiment 1 might have created significant demand effects, compromising the validity of our findings. To avoid deception, we thus ran a small auxiliary survey before we ran Experiment 2, and we matched Experiment 2 subjects with participants from this auxiliary survey.

<sup>&</sup>lt;sup>27</sup>Because respondents in both the No Excuse and Excuse conditions see the same question, our approach also mitigates concerns about experimenter demand. We discuss experimenter demand in more depth in Section 4.1.

our list (e.g., xenophobic  $\rightarrow$  xenophob, gullible  $\rightarrow$  gullib), for a total of 23 intolerance-related stems and 30 gullibility-related stems (Gentzkow et al., 2019).

We then define two indicator variables — one variable that takes value 1 if the respondent uses an intolerance-related stem and 0 otherwise, and another variable that takes value 1 if the respondent uses a gullibility-related stem and 0 otherwise — and estimate treatment effects on the probability that the respondent uses at least one word in each list.<sup>28</sup> In order to eliminate potential degrees of freedom for analysis, we pre-specified this entire procedure, including the list of stems and the code file used for analysis.

Figure 5 displays results from our text-based type inference. Participants in the Excuse condition are 7 percentage points less likely to use a stem related to intolerance when describing their matched respondent's motive, compared to a mean of 17 percent among participants in the No Excuse condition (p < 0.001). These same participants are also 3 percentage points more likely to use words related to gullibility (p < 0.001), relative to a mean of 7 percent among participants in the No Excuse condition.<sup>29</sup> These are substantial effect sizes, which highlight that the availability of a rationale strongly changes people's inference about their matched respondent's motives. Table 4 displays results in regression form and demonstrates robustness to the inclusion of demographic and partisan controls.

Figure 5 also displays results from our structured belief measures. Participants who believe their matched respondent had an excuse rated their respondent 0.13 standard deviations lower on the intolerance scale (p < 0.001), and 0.32 standard deviations higher on the gullibility scale (p < 0.001). As with the text analysis measure, effects are similar in the pilot and in the pre-registered main experiment, are robust to the inclusion of control variables, and are precisely estimated. Table 5 displays results in regression form and demonstrates robustness to the inclusion of demographic and partisan controls. To further validate our two measures of type inference, we show in Table C13 that they are highly correlated: on average, a respondent who uses a word related to intolerance (gullibility) when describing the matched respondent's motive rates the matched respondent as half a standard deviation more intolerant (gullible) than a respondent who does not use such a word.

Taken together, our evidence suggests that when judging others' motives, people believe that those who donated with an excuse are more persuadable and less intolerant than those who donated

<sup>&</sup>lt;sup>28</sup>These two outcomes are neither mutually exclusive nor jointly exhaustive; responses that contain both an intolerance-related stem and a gullibility-related stem will have both intolerance and gullibility indicators equal to one, whereas responses that contain neither type of stem will have both indicators equal to zero. Thus, our results are unbiased even if participants perceive a nonzero correlation between intolerance and gullibility.

 $<sup>^{29}</sup>$ We were intentionally conservative when choosing stem words in order to minimize the rate of false positives.

without an excuse.

## 4 Robustness

#### 4.1 Demand effects

One potential concern regarding the validity of our estimated treatment effects is that respondents across different treatment conditions hold different beliefs about the experimenter's expectations, and that these beliefs drive our findings. These concerns are particularly salient in Experiment 1, which requires more involved experimental manipulations in order to rule out confounding mechanisms. Despite recent evidence that respondents are not elastic to explicit signals of the experimenter's expectations in online surveys (de Quidt et al., 2018), suggesting a limited quantitative importance of demand effects in the context of our experiment, we conduct a number of additional exercises to address the potential for demand effects to bias our findings.

**Perceived purpose: machine learning** We measured respondents' beliefs about the purpose of the experiment at the end of both Experiment 1 and Experiment 2 using an open-ended question: "If you had to guess, what was the purpose of this study?". To examine whether respondents in the different treatment conditions hold different beliefs about the purpose of the study, we employ machine learning techniques to these text responses. In particular, we train a Support Vector Machine classifier to predict treatment status given the participant's response.

Employing 75 percent of our sample as a training set and the remaining 25 percent as a test set, we show that we cannot predict treatment status better than chance when distinguishing between the Excuse and No Excuse conditions in Experiment 1 (Table C8). However, we can predict assignment to the Control condition substantially better than chance (Table C8), which highlights that respondents in the Control condition hold different beliefs from respondents in the Excuse and No Excuse condition. Given that the Control condition differs significantly from the Excuse and No Excuse conditions in that Control respondents do not learn about Dr Lott's study, this difference is to be expected; we view this result as validation for our method, as it demonstrates that we would in principle detect differences in perceived purpose between Excuse and No Excuse if such differences were present. Similarly to Experiment 1, we cannot predict whether respondents belong to the Excuse or No Excuse condition in Experiment 2 better than chance (Table C9), suggesting that the treatment does not significantly affect respondents' perceptions about the purpose of the study.

**Perceived purpose: hand-coding** We hired two independent research assistants to hand-code the responses to the open-ended purpose question in Experiment 1. Table C6 in the Appendix shows that the majority of our respondents believed that we wanted to study the effects of information on anti-immigrant sentiment or participant's willingness to have their decisions posted on the website. Fewer than 1 percent of our sample correctly guessed the true purpose of our experiment (Column 1). Table C6 also shows that on almost all of the dimensions we code, beliefs about the purpose of the study do not significantly differ between Excuse and No Excuse. The exception is Social Image (Column 3): respondents in the Excuse condition are 2 percentage points more likely than respondents in the No Excuse condition to believe that the study was about whether people were willing to publicly express political views (p = 0.038). Although statistically significant, this different is small in magnitude and cannot explain our effect sizes. Reassuringly, respondents were no more likely to believe that the experimenters were biased in the Excuse condition relative to the No Excuse condition (Column 6, p = 0.994).

As suggested by the results of the machine learning exercise described previously, we do find significant differences in perceived purpose between the Control condition and the No Excuse condition, and between the Control condition and the Excuse condition. This is likely due to the fact that we provided respondents in the No Excuse and Excuse conditions information suggesting that undocumented immigrants commit more crimes than US citizens (i.e. the Lott study), while we did not provide any such information to respondents in the Control condition. However, these differences do not affect our main comparison of interest (No Excuse vs. Excuse).

**Experiment 1 heterogeneity** Finally, heterogeneous treatment effects by the county-level Republican vote share are inconsistent with experimenter demand effects driving our findings. In particular, for demand effects to bias our estimates upward, we would require that respondents in counties with a lower Republican vote share are substantially more affected by experimenter demand effects than respondents in counties with a higher Republican vote share.

#### 4.2 Differential attrition

Could patterns of differential attrition explain the estimated treatment effects in our data? In Experiment 1, we find no differential attrition among respondents in the Excuse versus No Excuse condition (p = 0.47), and there is no evidence of differential attrition between subgroups (Table C12 in the Appendix). We do find a precisely estimated four percentage point lower attrition rate among respondents in the Control condition compared to respondents in the Excuse condition and the No Excuse condition (p < 0.001), which may be explained by the greater survey length of the Excuse and No Excuse versions of the survey. This does not affect our estimates of the main effect of interest (No Excuse vs. Excuse), but may slightly bias the benchmark (Control vs. No Excuse). Similarly, attrition rates in Experiment 2 are virtually identical among respondents in the Excuse and No Excuse conditions (p = 0.23) and neither political affiliation nor any other demographic variable systematically predicts differential attrition across treatment arms (Table ?? in the Appendix).

## 5 Conclusion

Motivated by a global wave of anti-immigrant rhetoric and policy, we study how commonly known rationales to oppose immigration serve as excuses to justify anti-immigrant behavior. In a motivating survey experiment, we find that public support among Republicans for a permanent ban on Mexican immigration into the US jumps from 32% to 51% if respondents are allowed to attach a justification for their public support: protecting the US from contagious diseases. We then use large-scale experiments to examine the mechanisms through which excuses facilitate the expression of anti-immigration behavior, focusing on one of the most widely-cited justifications for reducing immigration: the claim that immigrants commit crimes at vastly higher rates than citizens. In a first experiment, we show that subjects who believe that their exposure to the rationale will be publicly observable are substantially more likely to make the donation to an anti-immigrant organization than subjects who believe that their exposure to the rationale will remain private. In a second experiment, we show that subjects perceive donors who had been exposed to the rationale as less biased toward immigrants and more persuadable than donors who had not been exposed.

Our approach can be applied to understand a variety of political economy phenomena. For example, populist rhetoric often seeks to generate common knowledge—or the perception of common knowledge—of excuses. Müller (2016) argues that populist rhetoric is often characterized by appeals to the beliefs or desires of the "people" or a "silent majority"—a group which often has little to no basis in fact. For example, several commentators have highlighted Donald Trump's tendency to use phrases such as "People say..." when discussing politically sensitive issues, and as Rosenblum and Muirhead (2019) argue, this practice is common to a number of prominent populist politicians around the world spanning the ideological spectrum. Such rhetoric generates the perception of *common knowledge* of the excuse: by implying that fringe conspiracy theories are known to a large group of people (and by appearing to endorse the theory themselves), populists seek to convey that the excuse will be credible and thus effective.<sup>30</sup> A closely related phenomenon is dog-whistling: "sending a message to certain potential supporters in such a way as to make it inaudible to others whom it might alienate or deniable for still others who would find any explicit appeal along those lines offensive" (Goodin and Saward, 2005), which has been used to describe the Republican Party's "Southern Strategy" to win white support in the South by appealing to racial tensions (Haney-López, 2014).<sup>31</sup> As with "people say" and related language, "dog-whistles" supporters vis-a-vis others who disapprove of the statement, allowing them to publicly support the politician and his or her policies without incurring social stigma.<sup>32</sup>

Our findings are also relevant for the debate about the influence of fake and misleading news on society. While studies suggest that the persuasive effect of fake news is limited (Nyhan, 2018; Allcott and Gentzkow, 2017), our study points to an alternative mechanism through which fake news can affect public expression. In particular, fake news can generate a "persuasion multiplier": narratives that plausibly persuade a small subset of the population and are commonly known to exist can change public behavior among a much larger fraction of the population, increasing their willingness to express otherwise-stigmatized views by increasing the effectiveness of their excuse.

This insight has implications for debunking fake news spread online and offline. In particular, our findings suggest that in order to prevent a given fake news story from spreading, it might be insufficient to debunk it *privately*; instead, it is crucial to generate common knowledge that the excuse is invalid. This insight has valuable implications for institutional policy. Among other platforms, Facebook has experimented with various strategies to curtail the spread of misinformation, including warning users before they post an article flagged as fake news and flagging fake or misleading news when it appears on users' timelines (e.g., because a friend shared it). The former

<sup>&</sup>lt;sup>30</sup>This practice is, of course, also consistent with populists exploiting social learning channels in order to bolster the persuasive power of their claims.

<sup>&</sup>lt;sup>31</sup>In a 1981 interview, Republican strategist and Republican National Committee chairman Lee Atwater described the strategy as follows: "You start out in 1954 by saying, 'N—, n—, n—.' By 1968 you can't say 'n—': that hurts you. Backfires. So you say stuff like forced busing, states' rights and all that stuff. You're getting so abstract now [that] you're talking about cutting taxes, and all these things you're talking about are totally economic things and a byproduct of them is [that] blacks get hurt worse than whites. And subconsciously maybe that is part of it. I'm not saying that." (Lamis, ed, 1999)

 $<sup>^{32}</sup>$ Indeed, a third type of excuse may be a "self-excuse" for politician's supporters who do not want to admit to themselves that they endorse racist positions, as in Bénabou and Tirole (2011).

initiative maps closely onto a "first-order" debunking in our model (private persuasion), while the second initiative maps onto a "second-order" debunking (debunking one's audience). Yet to the extent that Facebook does not yet debunk all users (more precisely, to the extent that the fact that Facebook does not debunk all users is not common knowledge), it generates a ready-made excuse for sharing fake news: posters can credibly claim that they were not warned the news was fake.<sup>33</sup> Our results suggest it is important not only to debunk both the poster and the audience, but also to make it clear to the poster that the audience will know that he or she was debunked before posting. This could be done by including a screenshot in the pre-post warning shown to the poster of what his or her post will look like to others, in which the sentence "The poster was warned that this link has been flagged as fake or misleading before posting" is clearly visible. An alternative and simpler path would be to simply roll out the feature to the entire user-base, generating common knowledge that all users are warned before posting fake news. Because the general equilibrium results of such a change differ significantly from the partial equilibrium results by creating common knowledge, current estimates of the effects of debunking on users' propensity to share fake news may substantially understate the true effects that would be realized if platforms were to scale up the feature to their entire user-base.

Our results suggest several directions for further research. First, what implications do our results have for the "supply side" of excuses: can "excuse entrepreneurs" who are able to generate common knowledge about plausible rationales to act in a potentially stigmatized manner cause striking reversals of social norms, even if their persuasive impact is limited, and can similar patterns help explain the rising popularity of ideologically extreme media outlets? Moreover, can growing partisan polarization in media consumption make excuses more effective by allowing partisans to more credibly claim that they have not been exposed to information contradicting their views?

<sup>&</sup>lt;sup>33</sup>Indeed, Facebook's fact-checking efforts have been widely criticized for a lack of transparency, and it is thus certain that most Facebook users lack information about how the platform fights misinformation. (Nyhan, Brendan. "Why the Fact-Checking at Facebook Needs to Be Checked." *The New York Times*, October 23, 2017.)

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# Figures

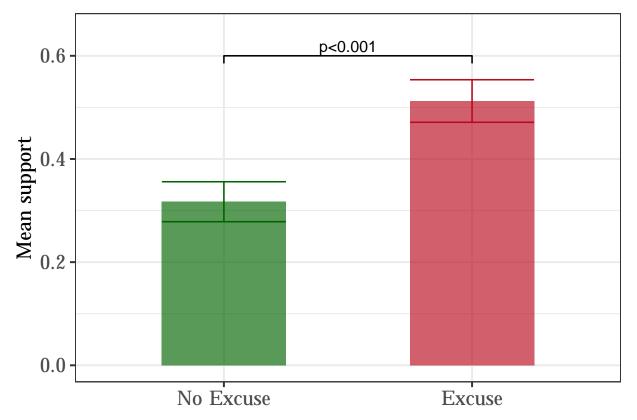
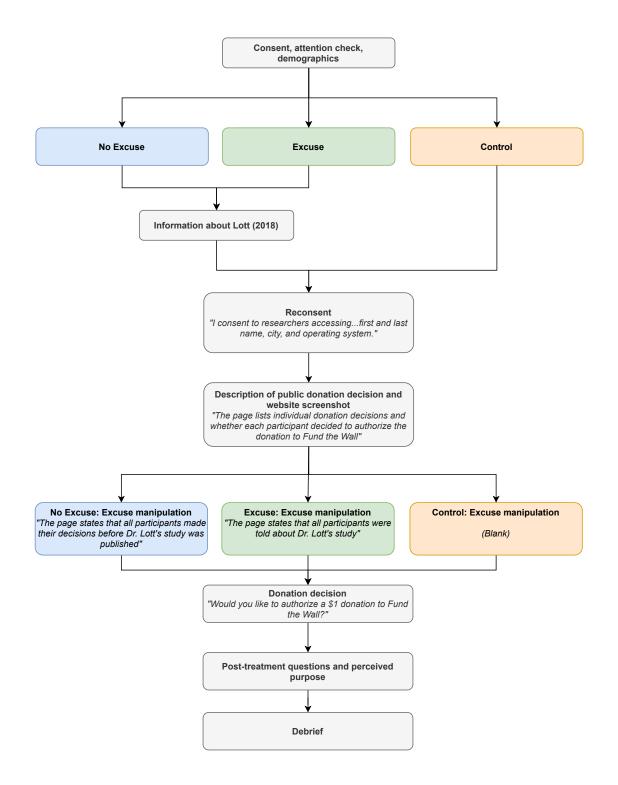


Figure 1: Motivating Survey Experiment

*Notes:* Figure 1 displays the results from the motivating survey experiment conducted in May 2020 with a sample of 1,121 Republicans. The figure shows the fraction of respondents supporting a permanent ban of Mexican immigration in the Excuse condition and in the No Excuse condition as well as 95 percent confidence intervals.



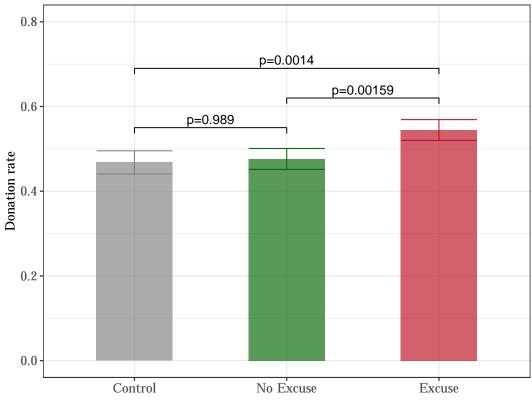
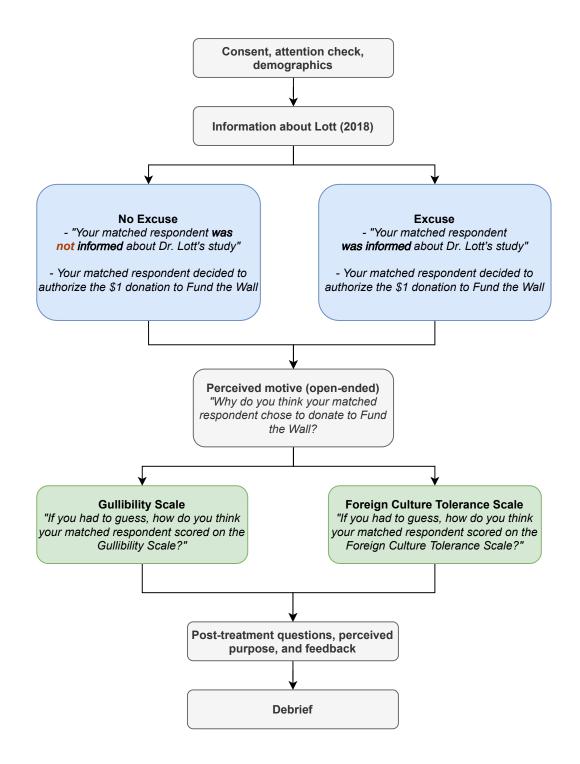


Figure 3: Experiment 1: Donation rates by group

*Notes:* Figure 3 displays the results from Experiment 1 conducted in January 2020 with a sample of 3,728 Republicans and Independents. The figure displays donation rates to "Fund the Wall" across the control group, the 'No Excuse' group and the 'excuse' group. The figure displays 95 percent confidence intervals as well as p-values for tests of equality of means across the conditions.



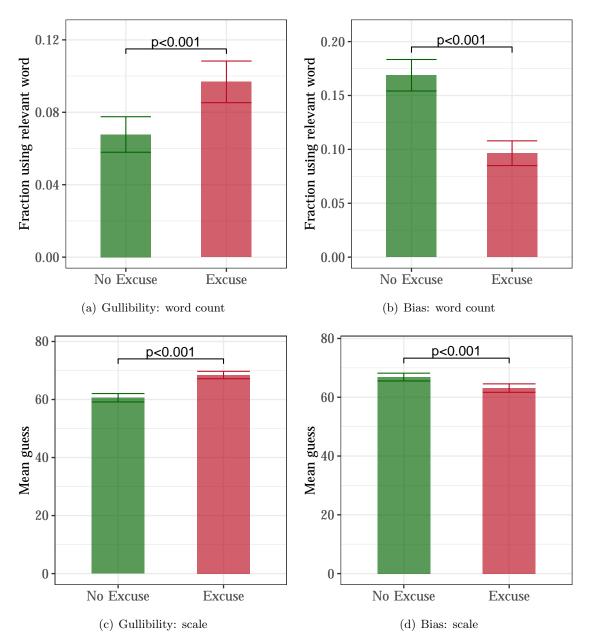


Figure 5: Experiment 2: Type inference based on text analysis and scales

*Notes:* Figure 5 displays the results from Experiment 2 conducted in February 2020 with a sample of 3,047 Democrats. Panel (a) shows the fraction of respondents who used words related to gullibility across the 'No Excuse' and the 'excuse' condition. Panel (b) shows the fraction of respondents who used words related to intolerance across the 'No Excuse' and the 'excuse' condition. Panel (c) shows the mean guess of the matched respondent's score on the gullibility scale across the 'No Excuse' and the 'excuse' condition. Panel (d) shows the mean guess of the matched respondent's score on the intolerance scale across the 'No Excuse' and the 'excuse' condition. Panel (d) shows the mean guess of the matched respondent's score on the intolerance scale across the 'No Excuse' and the 'excuse' condition. The figure displays 95 percent confidence intervals as well as p-values for tests of equality of means across the conditions.

# Tables

	Dependent variable:           Publicly supports permanent ban		
	(1)	(2)	(3)
Excuse	0.195***	0.197***	$0.195^{***}$
	(0.029)	(0.029)	(0.028)
Demographic controls	No	Yes	Yes
Partisan affiliation controls	No	No	Yes
DV mean	0.416	0.416	0.416
DV std. dev.	0.493	0.493	0.493
Observations	1,121	1,121	1,121
$\mathbb{R}^2$	0.039	0.080	0.143
Adjusted $\mathbb{R}^2$	0.038	0.065	0.129

 Table 1: Motivating survey: results

*Notes:* The dependent variable is an indicator taking value 1 if the respondent agreed that immigration from Mexico should be permanently banned. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include dummies for strong Republican and weak Republican. Robust standard errors are reported.

			Depende	nt variable	:	
		Γ	Oonated to	Fund the '	Wall	
	(1)	(2)	(3)	(4)	(5)	(6)
Excuse	$0.064^{***}$ (0.020)	$0.060^{***}$ (0.020)	$0.065^{***}$ (0.018)	$0.068^{***}$ (0.018)	$0.067^{***}$ (0.017)	$0.074^{***}$ (0.016)
Control	-0.0003 (0.020)	-0.007 (0.019)	-0.004 (0.018)	-0.008 (0.019)	-0.011 (0.018)	-0.00004 (0.017)
p-value (Excuse = $Control$ )	0.0014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Demographic controls Partisan affiliation controls	No No	Yes No	Yes Yes	No No	Yes No	Yes Yes
Include pilot data	No	No	No	Yes	Yes	Yes
DV mean DV std. dev. Observations $R^2$ Adjusted $R^2$	0.489 0.500 3,728 0.004 0.003	0.489 0.500 3,728 0.060 0.056	$0.489 \\ 0.500 \\ 3,728 \\ 0.188 \\ 0.184$	0.498 0.500 4,444 0.005 0.004	$\begin{array}{c} 0.498 \\ 0.500 \\ 4,432 \\ 0.061 \\ 0.058 \end{array}$	$\begin{array}{c} 0.498 \\ 0.500 \\ 4,432 \\ 0.198 \\ 0.195 \end{array}$

 Table 2: Experiment 1: Main results

*Notes:* The dependent variable is an indicator taking value 1 if the respondent donated to Fund the Wall. Columns 1-3 report results estimated on the sample from the main experiment, while Columns 4-6 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include dummies for strong Republican, weak Republican, Republican-leaning Independent, and Democrat-leaning Independent. Robust standard errors are reported.

			Depende	ent variable			
		Donated to Fund the Wall					
	(1)	All (2)	Republicans (3) (4)		Indepo (5)	endents (6)	
Excuse	$\begin{array}{c} 0.062^{***} \\ (0.019) \end{array}$	$0.070^{***}$ (0.016)	$0.061^{**}$ (0.029)	$0.069^{***}$ (0.025)	$0.061^{**}$ (0.024)	$\begin{array}{c} 0.071^{***} \\ (0.022) \end{array}$	
Excuse $\times$ County Republican vote share	$-0.037^{**}$ (0.018)	$-0.037^{**}$ (0.016)	-0.011 (0.029)	-0.013 (0.025)	$-0.059^{**}$ (0.024)	$-0.059^{***}$ (0.022)	
Control	-0.005 (0.018)	-0.002 (0.017)	-0.006 (0.028)	-0.004 (0.026)	$0.005 \\ (0.024)$	$0.008 \\ (0.023)$	
Control $\times$ County Republican vote share	$0.019 \\ (0.013)$	$0.017 \\ (0.012)$	$0.018 \\ (0.020)$	$0.012 \\ (0.017)$	$0.021 \\ (0.018)$	$0.022 \\ (0.016)$	
County Republican vote share	$0.010 \\ (0.018)$	$0.011 \\ (0.017)$	-0.008 (0.029)	-0.006 (0.027)	$0.026 \\ (0.024)$	0.023 (0.023)	
Demographic controls Partisan affiliation controls	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	
Include pilot data	No	Yes	No	Yes	No	Yes	
DV mean DV std. dev. Observations $R^2$	$0.489 \\ 0.500 \\ 3,631 \\ 0.192$	$\begin{array}{c} 0.498 \\ 0.500 \\ 4,315 \\ 0.203 \end{array}$	$0.489 \\ 0.500 \\ 1,551 \\ 0.071$	$0.498 \\ 0.500 \\ 1,920 \\ 0.073$	$0.489 \\ 0.500 \\ 2,080 \\ 0.142$	$\begin{array}{c} 0.498 \\ 0.500 \\ 2,395 \\ 0.156 \end{array}$	
Adjusted $\mathbb{R}^2$	0.188	0.199	0.060	0.064	0.134	0.150	

Table 3: Experiment 1: County heterogeneity

*Notes:* The dependent variable is an indicator taking value 1 if the respondent donated to Fund the Wall. The county Republican vote share is from the 2016 US Presidential election and is scaled to a standard normal distribution. Columns 1-2 include both Independents and Republicans, Columns 3-4 limit the sample to Republicans, and Columns 5-6 limit the sample to Independents. Columns 1, 3, and 5 report results estimated on the sample from the main experiment, while Columns 2, 4, and 6 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include dummies for strong Republican, weak Republican, Republican-leaning Independent, and Democrat-leaning Independent. Robust standard errors are reported.

			Depender	nt variable:		
	Inference about partner's donation motive					
	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Probability of usi	ing word rel	ating to bias				
Excuse	$-0.070^{***}$	$-0.068^{***}$	$-0.068^{***}$	$-0.072^{***}$	$-0.072^{***}$	$-0.072^{***}$
	(0.012)	(0.012)	(0.012)	(0.009)	(0.009)	(0.009)
Constant	$0.172^{***}$	0.310***	0.291***	$0.169^{***}$	$0.288^{***}$	0.268***
	(0.009)	(0.071)	(0.072)	(0.007)	(0.055)	(0.055)
Observations	3,047	3,047	3,047	5,065	5,065	5,065
$\mathbb{R}^2$	0.010	0.028	0.029	0.011	0.024	0.025
Adjusted $\mathbb{R}^2$	0.010	0.024	0.024	0.011	0.021	0.022
Panel B: Probability of usi	ing word rel	ating to gull	ibility			
Excuse	0.031***	0.032***	0.032***	0.029***	0.029***	0.029***
	(0.010)	(0.010)	(0.010)	(0.008)	(0.008)	(0.008)
Constant	0.069***	0.112*	0.118**	0.068***	0.111**	0.113**
	(0.007)	(0.058)	(0.058)	(0.005)	(0.045)	(0.045)
Observations	3,047	3,047	3,047	5,065	5,065	5,065
$\mathbb{R}^2$	0.003	0.010	0.011	0.003	0.009	0.009
Adjusted $\mathbb{R}^2$	0.003	0.006	0.006	0.003	0.006	0.006
Demographic controls	No	Yes	Yes	No	Yes	Yes
Partisan affiliation controls	No	No	Yes	No	No	Yes
Include pilot data	No	No	No	Yes	Yes	Yes

### Table 4: Experiment 2: Inferred donation motives

*Notes:* The dependent variable in Panel A is an indicator taking value 1 if the respondent uses a word relating to bias when describing why he or she thinks the matched respondent donated to Fund the Wall, while the dependent variable in Panel B is an indicator taking value 1 if the respondent uses a word relating to gullibility in response to the same question. Columns 1-3 report results estimated on the sample from the main experiment, while Columns 4-6 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include a dummy for strong Democrats, with weak Democrats as the reference category. Robust standard errors are reported.

			Depender	nt variable:		
		Inf	erence abou	t partner's s	core	
	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Bias (z-score)						
Excuse	$-0.134^{***}$	$-0.133^{***}$	$-0.133^{***}$	$-0.149^{***}$	$-0.152^{***}$	$-0.152^{***}$
	(0.051)	(0.051)	(0.051)	(0.040)	(0.039)	(0.039)
Constant	0.058	-0.159	-0.174	$0.074^{***}$	0.047	0.006
	(0.036)	(0.282)	(0.285)	(0.028)	(0.224)	(0.226)
Observations	1,524	1,524	1,524	2,532	2,532	2,532
$\mathbf{R}^2$	0.004	0.038	0.038	0.006	0.037	0.037
Adjusted $\mathbb{R}^2$	0.004	0.030	0.029	0.005	0.032	0.032
Panel B: Gullibility (z-sco	ore)					
Excuse	0.321***	0.312***	0.310***	0.313***	0.316***	$0.317^{***}$
	(0.050)	(0.050)	(0.050)	(0.039)	(0.039)	(0.039)
Constant	$-0.155^{***}$	0.016	-0.100	$-0.159^{***}$	-0.116	-0.224
	(0.036)	(0.299)	(0.301)	(0.028)	(0.231)	(0.233)
Observations	1,523	1,523	1,523	2,533	2,533	2,533
$\mathbb{R}^2$	0.026	0.060	0.065	0.025	0.055	0.059
Adjusted $\mathbb{R}^2$	0.025	0.052	0.056	0.024	0.050	0.053
Demographic controls	No	Yes	Yes	No	Yes	Yes
Partisan affiliation controls	No	No	Yes	No	No	Yes
Include pilot data	No	No	No	Yes	Yes	Yes

Table 5: Experiment 2: Inferred bias and gullibility scores

*Notes:* The dependent variable in Panel A is the negative of the z-score of the respondent's guess as to his or her matched respondent's score on the Foreign Culture Tolerance Scale, where we take the negative to interpret higher values as greater bias. The dependent variable in Panel B is the z-score of the respondent's guess as to his or her matched respondent's score on the Gullibility Scale. Both scales were originally scored between 0 and 100. Columns 1-3 report results estimated on the sample from the main experiment, while Columns 4-6 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. The partisan affiliation control is an indicator that takes value 1 if the respondent self-reports being a strong Democrat, with weak Democrat as the reference category. Robust standard errors are reported.

# Supplementary Appendix: not for publication

### A Theoretical Framework

### A.1 Model

To organize thoughts and motivate our experimental designs, we present a simple model of communication that formalizes the strategic implications of a publicly known rationale for xenophobic behavior.

A society consists of a continuum of agents who differ on two dimensions. First, some are tolerant toward foreign cultures (i = 0), while others are intolerant (i = 1). Second, some are easily persuaded by the given rationale ("persuadables") whereas others are not. The two dimensions are independent; the probability that a given agent is tolerant is given by  $p \in (0, 1)$ , and the probability that a given agent is persuadable is  $q \in (0, 1)$ . Agents' individual types are private information, though the distribution of types is common knowledge.

At the beginning of the game, two agents are randomly drawn from the society: one agent is the "sender" while the other is the "receiver." The sender and receiver are exposed to an antiimmigrant rationale. The sender can choose either to donate to an anti-immigrant organization (a = 1) or not to donate (a = 0). The receiver observes the sender's donation decision and makes an inference about whether the sender is tolerant or intolerant.

The persuadable sender is non-strategic, with actions characterized as follows: in the absence of viewing anti-immigrant information, the tolerant-persuadable sender chooses not to donate, while the intolerant-persuadable sender donates. However, once exposed to anti-immigrant information, the tolerant-persuadable sender is persuaded and induced to donate<sup>34</sup>; the intolerant-persuadable sender continues to donate.

The non-persuadable sender is strategic and receives social utility proportional to the receiver's belief that the receiver and sender share the same tolerance type. In particular, when the receiver believes with certainty that the sender is of the same tolerance type, the sender receives social utility  $\bar{b}$ , while when the receiver believes with certainty that the sender is of the opposite tolerance type, the sender receives social utility  $\underline{b}$ , with  $\overline{b} > \underline{b}$ . Given that the probability of being matched with a tolerant receiver is p and the probability of being matched with an intolerant receiver is 1 - p, the sender's social utility from being perceived as tolerant with certainty is given by  $b_0 := p\overline{b} + (1-p)\underline{b}$ , while the sender's social utility from being perceived as intolerant with certainty is given by  $b_1 := p\underline{b} + (1-p)\overline{b}$ .

Thus, the sender's expected social utility of inducing the receiver to believe with probability  $\pi$  that the sender is tolerant is given by  $b(\pi) = \pi b_0 + (1 - \pi)b_1$ . We assume that p > 0.5 such that

<sup>&</sup>lt;sup>34</sup>Differences in persuasion may arise because some people are more gullible than others, and thus the posterior probability that these gullible types assign to the event that the story is true shifts further from their prior than that of non-gullible types. Alternatively, these differences may arise because some people will be more affected if the state of the world implied by the rationale is true, and thus they are more willing to donate than other agents even if they assign the *same* probability to the event that the rationale is true as other agents. Said differently, differences in persuasion may arise from differences in belief updating or from differences in payoffs.

 $b_0 > b_1$ , i.e. the expected social utility from being perceived as tolerant is strictly greater than the expected social utility from being perceived as intolerant.<sup>35</sup>

Both types of non-persuadable senders also receive expressive utility v > 0 from making a donation decision consistent with their tolerance type: in particular, the intolerant sender receives v when choosing to donate to the anti-immigrant organization and 0 otherwise, while the tolerant sender receives v when they choose not to donate and 0 otherwise. The utility function of the non-persuadable sender with tolerance type a = i is thus given as follows:

$$u_i(a,\pi) = v \mathbf{1}_{\{a=i\}} + \pi b_0 + (1-\pi)b_1.$$

Let  $\pi(a)$  denote the receiver's posterior belief that the sender is tolerant after observing the sender's action a. Then, the following proposition holds:

**Proposition 1.** Non-persuadable senders' optimal actions are as follows<sup>36</sup>:

$$a_0^*(\pi(\cdot)) = \mathbf{1}_{\left\{\pi(1) - \pi(0) > \frac{v}{b_0 - b_1}\right\}},\tag{4}$$

$$a_1^*(\pi(\cdot)) = \mathbf{1}_{\left\{\pi(1) - \pi(0) > -\frac{v}{b_0 - b_1}\right\}}.$$
(5)

We consider the equilibria of two separate games, which map to our experimental conditions. In the No Excuse (NE) game, the receiver holds incorrect beliefs about the sender's information set (and this is known to the sender): the receiver believes with certainty that the sender did not see the anti-immigrant rationale prior to choosing her action. Thus, the receiver believes that there is no persuasion effect operating on the sender, and the receiver therefore believes with certainty that a sender who donates is intolerant, i.e.  $\pi(a = 1) = 0$ . In contrast, in the Excuse (E) game, the receiver (correctly) believes with certainty that the sender has seen the anti-immigrant rationale prior to choosing her action. Thus, the receiver no longer knows with certainty that a sender who donates is intolerant, since he knows he may be matched with a tolerant-persuadable sender who was persuaded by the news story to donate. Our solution concept for both games is Perfect Bayesian equilibrium in pure strategies, in which  $\pi(\cdot)$  is consistent with each type of sender's actions and follows Bayes' rule when possible. We adopt the intuitive criterion to refine the set of off-path equilibria in the Excuse game (Cho and Kreps, 1987).<sup>37</sup>

<sup>&</sup>lt;sup>35</sup>This assumption implies that the sender wants to be perceived as intolerant if they think their matched receiver is more likely to be intolerant than tolerant. Alternatively, we could assume that the sender always prefers to be perceived as tolerant irrespective of whether the receiver is more likely to be tolerant or intolerant. With p > 0.5, the model yields virtually identical results under this alternative assumption. That is, we can redefine  $b_0 := \bar{b}$  and  $b_1 := \bar{b}$  and the remainder of this section would look identical under this alternative assumption.

<sup>&</sup>lt;sup>36</sup>We assume that the sender does not donate when she is indifferent between donating and not donating; however, the results in the section do not depend on this assumption.

<sup>&</sup>lt;sup>37</sup>In our model, persuadable and non-persuadable receivers are identical. In particular, tolerant-persuadable receivers who are persuaded by the anti-immigrant organization still judge intolerant senders in the same manner as tolerant-persuadable receivers, capturing the intuition that people care about the *motivations* behind others' actions. Moreover, persuadable receivers still use Bayes' rule to make inferences about the sender's motivations. We could alternatively model persuadable and non-persuadable receivers differently, such that persuadable receivers take senders' actions at face value: in other words, such that they believe with probability one that donors are intolerant and non-donors are tolerant. This alternative model would narrow the set of parameter values under which we observe our equilibria of interest, as described in Proposition 2, but would leave our model's predictions qualitatively unchanged.

The fact that the tolerant-persuadable sender does not donate in either game is immediate, since both social and expressive utility are strictly greater when the tolerant-persuadable sender does not donate than when she donates.<sup>38</sup> When expressive utility v is small relative to social utility, the intolerant-nonpersuadable sender does not donate either in the Excuse game or the No Excuse game because the social image costs of donating outweigh the expressive benefits. In contrast, when expressive utility v is large relative to social utility, the intolerant-nonpersuadable sender donates in both the Excuse game and the No Excuse game. For expressive utility v within a certain parameter range, there exists an equilibrium in which the intolerant-nonpersuadable sender does not donate under the No Excuse game but donates under the Excuse game, assuming that the share of persuadable agents is sufficiently large to allow intolerant-nonpersuadable agents to pool with tolerant-persuadable agents. We formalize this claim in Proposition 2, which we prove in Appendix A.2.

### **Proposition 2.** Suppose that

$$\frac{(1-p)(b_0-b_1)}{1-qp} < v \le \frac{p(b_0-b_1)}{p+q(1-p)} \quad and \quad q < \frac{p^2}{2p^2-2p+1}.$$

Then, there exists a unique equilibrium in the No Excuse game, and there exists a unique equilibrium in the Excuse game satisfying the intuitive criterion. The tolerant-nonpersuadable sender does not donate in either game, while the intolerant-nonpersuadable sender donates only in the Excuse game.

Given the existence of the equilibrium as in Proposition 2, the following is an immediate corollary from the sender's equilibrium actions under the two conditions.

**Corollary 1.** In the equilibria as in Proposition 2, the receiver's posterior belief that a sender who donates is intolerant is lower in the Excuse game than in the No Excuse game:

$$1 - \pi^{NE}(1) = 1 > \frac{1 - p}{1 - pq} = 1 - \pi^{E}(1).$$

Moreover, the receiver's posterior belief that a sender who donates is non-persuadable is higher in the No Excuse game than in the Excuse condition:

$$\vartheta^{NE}\left(1\right) = 0 < \frac{q\left(1-p\right)}{1-qp} = \vartheta^{E}\left(1\right),$$

where  $\vartheta(a)$  is the receiver's posterior belief after observing action a that the sender is non-persuadable.

The reasoning is straightforward: because the receiver believes that only the intolerant-persuadable sender donates in the No Excuse game, we have  $\vartheta^{NE}(1) = 0$ . In contrast, in the Excuse game, the receiver believes that intolerant-persuadable, tolerant-persuadable, and intolerant-sophisticated senders all donate. Thus, we have  $\vartheta^{E}(1) = \frac{q(1-p)}{(1-q)+q(1-p)} = \frac{q(1-p)}{1-qp}$ .

<sup>&</sup>lt;sup>38</sup>The fact that expressive utility from not donating is greater than from donating is by definition, while the fact that social utility from not donating is greater than social utility from donating follows from the assumption that p > 0.5.

### A.2 Theory Proofs

#### A.2.1 Proof of Proposition 1

The tolerant sender (i = 0) chooses to donate (a = 1) if

$$\begin{aligned} v \mathbf{1}_{\{0=0\}} + \pi \left(0\right) b_0 + \left(1 - \pi \left(0\right)\right) b_1 &= u_0 \left(0, \pi \left(0\right)\right) < u_0 \left(1, \pi \left(1\right)\right) = v \mathbf{1}_{\{1=0\}} + \pi \left(1\right) b_0 + \left(1 - \pi \left(1\right)\right) b_1 \\ \Leftrightarrow v + \pi \left(0\right) b_0 + \left(1 - \pi \left(0\right)\right) b_1 < \pi \left(1\right) b_0 + \left(1 - \pi \left(1\right)\right) b_1 \\ \Leftrightarrow v < \left(\pi \left(1\right) - \pi \left(0\right)\right) \left(b_0 - b_1\right) \\ \Leftrightarrow \pi \left(1\right) - \pi \left(0\right) > \frac{v}{b_0 - b_1}, \end{aligned}$$

where the final inequality follows from the inequality  $b_0 - b_1 > 0$ . The intolerant sender (i = 1) chooses to donate (a = 1) if

$$\begin{aligned} v \mathbf{1}_{\{0=1\}} + \pi \left(0\right) b_0 + \left(1 - \pi \left(0\right)\right) b_1 &= u_0 \left(0, \pi \left(0\right)\right) < u_0 \left(1, \pi \left(1\right)\right) = v \mathbf{1}_{\{1=1\}} + \pi \left(1\right) b_0 + \left(1 - \pi \left(1\right)\right) b_1 \\ \Leftrightarrow \pi \left(0\right) b_0 + \left(1 - \pi \left(0\right)\right) b_1 < v + \pi \left(1\right) b_0 + \left(1 - \pi \left(1\right)\right) b_1 \\ \Leftrightarrow -v < \left(\pi \left(1\right) - \pi \left(0\right)\right) \left(b_0 - b_1\right) \\ \Leftrightarrow \pi \left(1\right) - \pi \left(0\right) > -\frac{v}{b_0 - b_1}. \end{aligned}$$

### A.2.2 Proof of Proposition 2

No Excuse game In the No Excuse game, the receiver believes that the sender has not seen the anti-immigrant information, so he expects the intolerant-persuadable sender to donate and the tolerant-persuadable sender not to donate. If both the tolerant-nonpersuadable and the intolerantnonpersuadable senders do not donate, Bayes' rule requires that  $\pi^{NE}(1) = 0$  and  $\pi^{NE}(0) = \frac{p}{p+q(1-p)}$ . Letting  $S_i$  and  $G_i$  denote type- $i \in \{0,1\}$  non-persuadable and persuadable senders, respectively, Bayes' rule gives:

$$\pi^{NE}(0) = \frac{\Pr(G_0, S_0)}{\Pr(S_0, S_1, G_0)} = \frac{(1-q)p + qp}{1 - (1-q)(1-p)} = \frac{p}{p+q-pq} = \frac{p}{p+q(1-p)}$$

Because the tolerant-nonpersuadable sender does not donate, the optimality condition for the intolerant-nonpersuadable sender, (5), yields the second inequality.

$$\begin{split} a_{0}^{*} &= 0 \Leftrightarrow \pi^{NE} \left( 1 \right) - \pi^{NE} \left( 0 \right) = -\frac{p}{p+q \left( 1-p \right)} \leq \frac{v}{b_{0}-b_{1}}, \\ a_{1}^{*} &= 0 \Leftrightarrow -\frac{p}{p+q \left( 1-p \right)} \leq -\frac{v}{b_{0}-b_{1}} \\ &\Leftrightarrow \frac{p}{p+q \left( 1-p \right)} \geq \frac{v}{b_{0}-b_{1}} \\ &\Leftrightarrow v_{1} \leq \frac{p \left( b_{0}-b_{1} \right)}{p+q \left( 1-p \right)}. \end{split}$$

We now verify that no other pure-strategy equilibrium exists in the No Excuse condition. First, observe that if  $a_0^* = 1$  then it must be that  $a_1^* = 1$  from the optimality conditions. That is, we can

rule out equilibria in which  $a_0^* = 1$  and  $a_1^* = 0$ . It remains to rule out the following equilibria: (1)  $a_0^* = 1$  and  $a_1^* = 1$ ; and (2)  $a_0^* = 0$  and  $a_1^* = 1$ .

(i) The receiver's posterior beliefs are:

$$\pi^{NE}(1) = \frac{\Pr(S_0)}{\Pr(S_0, S_1, G_1)} = \frac{qp}{1 - p(1 - q)}, \ \pi^{NE}(0) = 1$$
$$\Rightarrow \pi^{NE}(1) - \pi^{NE}(0) = \frac{qp}{1 - p(1 - q)} - 1 = -\frac{1 - p}{1 - p(1 - q)} < 0.$$

This violates the optimality condition for  $S_0$ .

(ii) The receiver's posterior beliefs are:

$$\pi^{NE} (1) = 0, \ \pi^{NE} (0) = 1$$
  
$$\Rightarrow \pi^{NE} (1) - \pi^{NE} (0) = -1.$$

Thus, the optimality condition for  $S_0$  is satisfied. For the optimality condition for  $S_1$  to be satisfied, we need that

$$-1 > -\frac{v}{b_0 - b_1} \Leftrightarrow v > b_0 - b_1.$$

But this contradicts the hypothesis of Proposition 2, which implies that

$$v \le \underbrace{\frac{p}{p+q(1-p)}}_{\in (0,1)} (b_0 - b_1) < b_0 - b_1 \Rightarrow v \le b_0 - b_1.$$

**Excuse game** In the Excuse game, the receiver expects both types of persuadable senders to donate. Since we look for an equilibrium in which the tolerant-nonpersuadable sender does not donate and the intolerant-nonpersuadable sender donates, Bayes' rule requires  $\pi^{E}(1) = \frac{p(1-q)}{1-pq}$  and  $\pi^{E}(0) = 1$ :

$$\pi^{E}(1) = \frac{\Pr(G_{0})}{\Pr(G_{0}, G_{1}, S_{1})} = \frac{(1-q)p}{(1-q)p + (1-q)(1-p) + q(1-p)} = \frac{p(1-q)}{1-qp} \in (0,1).$$

Because the tolerant-nonpersuadable sender does not donate, the intolerant-nonpersuadable sender's optimality condition yields the first inequality:

$$\begin{aligned} a_0^* &= 0 \implies \pi^E \left( 1 \right) - \pi^E \left( 0 \right) = \frac{p \left( 1 - q \right)}{1 - q p} - 1 \le \frac{v}{b_0 - b_1} \\ &\implies \frac{p \left( 1 - q \right) - 1 + q p}{1 - q p} = -\frac{1 - p}{1 - q p} \le \frac{v}{b_0 - b_1} \\ &\implies -\frac{1 - p}{1 - q p} \le 0 \le \frac{v}{b_0 - b_1}, \\ a_1^* &= 1 \implies \frac{p \left( 1 - q \right)}{1 - q p} - 1 = -\frac{1 - p}{1 - q p} > -\frac{v}{b_0 - b_1} \\ &\implies \frac{1 - p}{1 - q p} < \frac{v}{b_0 - b_1} \\ &\implies v > \frac{(1 - p) \left( b_0 - b_1 \right)}{1 - q p}. \end{aligned}$$

We appeal to the intuitive criterion to rule out equilibria in which both tolerant- and intolerantnonpersuadable senders donate in equilibrium. In such an equilibrium, the receiver cannot use Bayes' rule if he observes that the sender does not donate. Given on-path belief, the first inequality implies that the intolerant-nonpersuadable sender cannot benefit by deviating to not donating, regardless of the receiver's belief. In particular, in this equilibrium, we have  $\tilde{\pi}^E(1) = \Pr(G_0, S_0) = p$ . The intolerant-nonpersuadable type's equilibrium payoff is

$$u_1(1, \pi^E(1)) = v + b(\tilde{\pi}^E(1)) = v + pb_0 + (1-p)b_1.$$

The best that she can do by deviating to a = 0 is:

$$\max_{\pi} u_1(0,\pi) = b(\pi) = b_0$$

Hence, a = 0 is dominated if

$$v + pb_0 + (1 - p) b_1 > b_0 \Leftrightarrow (1 - p) (b_0 - b_1) < v$$

This is satisfied by the hypothesis of Proposition 2, since

$$(1-p)(b_0 - b_1) < \frac{(1-p)(b_0 - b_1)}{1-qp} < v.$$

Hence, by the intuitive criterion, the receiver must believe that any deviation from a = 1 is made by tolerant-nonpersuadable agents; i.e.,  $\tilde{\pi}^{E}(0) = 1$ . In this case, we have

$$\tilde{\pi}^{E}(1) - \tilde{\pi}^{E}(0) = -(1-p) < 0.$$

This violates the optimality condition for  $S_0$ , which rules out the possibility that both the tolerantand intolerant-nonpersuadable senders donate in the (refined) equilibrium. Thus, the intuitive criterion requires the receiver to believe that the sender is intolerant if he observers the sender donating, which, in turn, implies that it is not optimal for the tolerant-nonpersuadable sender to donate.

We proceed to verify that other pure strategies cannot be part of any equilibrium. By the same argument in the No Excuse game, we can rule out the case in which  $a_0^* = 1$  and  $a_1^* = 0$ . It remains to rule out the possibility that  $a_0^* = 0$  and  $a_1^* = 0$ . In such an equilibrium,

$$\pi^{E}(0) = \frac{\Pr(S_{0})}{\Pr(S_{0}, S_{1})} = p, \ \pi^{E}(1) = \frac{\Pr(G_{0})}{\Pr(G_{0}, G_{1})} = p,$$

so that  $\pi^E(1) - \pi^E(0) = 0$ . But this violates the optimality condition for the intolerant-nonpersuadable sender, since  $0 \leq -\frac{v}{b_0 - b_1} < 0$ .

The condition on q ensures that  $0 < \frac{(1-p)(b_0-b_1)}{1-qp} \le \frac{p(b_0-b_1)}{p+q(1-p)}$ , i.e. that there exists some v > 0 that satisfies the set of inequalities in the statement of Proposition 2.

$$0 < \frac{p(b_0 - b_1)}{p + q(1 - p)} - \frac{(1 - p)(b_0 - b_1)}{1 - qp}$$
  

$$\implies \frac{1 - p}{1 - qp} < \frac{p}{p + q(1 - p)}$$
  

$$\implies (1 - p)(p + q(1 - p)) < p(1 - qp)$$
  

$$\implies p + q(1 - p) - p^2 - pq(1 - p) 
$$\implies q(1 - p) - p^2 - pq + qp^2 < -qp^2$$
  

$$\implies q - p^2 - 2pq + 2qp^2 < 0$$
  

$$\implies q(1 - 2p + 2p^2) < p^2$$
  

$$\implies q < \frac{p^2}{2p^2 - 2p + 1}.$$$$

# **B** Appendix Figures and Tables

	Survey	Pew
Variables:	(1)	(2)
Age	46.68	49.50
Black	0.02	0.02
Asian	0.04	0.03
White	0.85	0.84
Hispanic	0.08	0.08
Male	0.40	0.51
Some college, no degree	0.23	0.24
Bachelors degree	0.30	0.18
Observations	1121	2879

 Table C1:
 Motivating survey:
 Sample representativeness

*Notes:* Mean of respondent characteristics in the motivating study and the 2018 Pew Research Center's American Trends Panel Wave 39. Attriters dropped from sample.

	Ov	verall	Excuse	No Excuse	p-value
	mean	std.dev.	mean	mean	$\overline{(E=NE)}$
Variables:	(1)	(2)	(3)	(4)	(5)
Age	46.682	16.451	46.716	46.649	0.946
Black	0.023	0.151	0.023	0.023	0.960
Asian	0.039	0.194	0.046	0.032	0.245
White	0.901	0.299	0.901	0.901	0.993
Hispanic	0.084	0.277	0.088	0.079	0.585
Male	0.402	0.491	0.396	0.409	0.651
High school diploma	0.991	0.094	0.989	0.993	0.546
Bachelors degree	0.301	0.459	0.307	0.294	0.617

 Table C2:
 Motivating survey:
 Balance of covariates

Notes: p-values based on robust standard errors reported. Attriters dropped from sample.

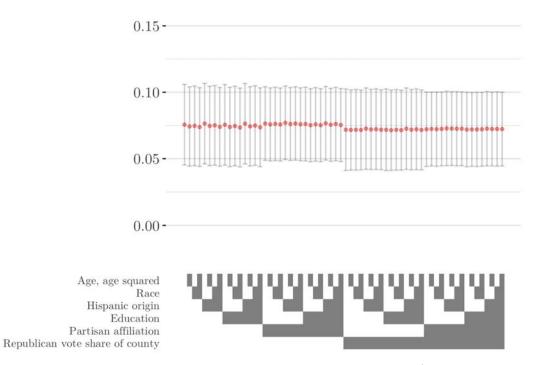


Figure C1: Experiment 1: Stability of estimated treatment effect

*Notes:* Figure C1 displays the estimated treatment effects of the Excuse condition (relative to the No Excuse condition) on donation rates to Fund the Wall under every possible set of demographic controls. 95% confidence intervals are reported.

	Experiment 1	Pew
	(1)	(2)
Panel A: Republican		
Age	47.11	49.50
Black	0.03	0.02
Asian	0.03	0.03
White	0.83	0.84
Hispanic	0.09	0.08
Male	0.49	0.51
Bachelors degree or higher	0.38	0.29
Observations	2022	2879
Panel B: Independent		
Age	43.53	44.96
Black	0.11	0.08
Asian	0.05	0.04
White	0.69	0.70
Hispanic	0.12	0.13
Male	0.50	0.53
Bachelors degree or higher	0.37	0.34
Observations	2531	2622

 Table C3:
 Experiment 1:
 Sample representativeness

*Notes:* Mean of respondent characteristics in experiment 1 and the 2018 Pew Research Center's American Trends Panel Wave 39. Attriters dropped from sample.

	Ov	rerall	Excuse	No Excuse	Control		p-values		
	mean	std.dev.	mean	mean	mean	(E=NE)	(E=C)	(NE=C)	
Variables:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Age	44.935	15.704	45.100	44.798	44.909	0.633	0.758	0.857	
Black	0.076	0.266	0.069	0.088	0.072	0.085	0.797	0.135	
Asian	0.043	0.202	0.041	0.042	0.045	0.877	0.657	0.772	
White	0.821	0.383	0.826	0.815	0.823	0.465	0.877	0.556	
Hispanic	0.110	0.313	0.113	0.107	0.111	0.644	0.854	0.776	
Male	0.500	0.500	0.494	0.507	0.498	0.535	0.835	0.674	
High school diploma	0.976	0.153	0.977	0.975	0.977	0.821	0.987	0.831	
Bachelors degree	0.379	0.485	0.393	0.369	0.375	0.213	0.356	0.734	
Republican	0.425	0.494	0.419	0.436	0.420	0.389	0.955	0.413	

 Table C4:
 Experiment 1:
 Balance of covariates

Notes: p-values based on robust standard errors reported. Attriters dropped from sample.

		Dependent variable:				
	Donated to Fund the Wall					
	Repu	ıblicans	Indepe	endents		
	(1)	(2)	(3)	(4)		
Excuse	0.068**	0.079***	0.068***	0.074***		
	(0.028)	(0.024)	(0.024)	(0.023)		
Control	-0.006	-0.008	0.003	0.013		
	(0.028)	(0.026)	(0.024)	(0.024)		
p-value (Excuse = $Control$ )	0.0087	0.0011	0.0059	0.0089		
Demographic controls	Yes	Yes	Yes	Yes		
Partisan affiliation controls	Yes	Yes	Yes	Yes		
Include pilot data	No	Yes	No	Yes		
DV mean	0.670	0.674	0.356	0.358		
DV std. dev.	0.470	0.469	0.479	0.469		
Observations	1,582	$1,\!961$	2,146	$2,\!471$		
$\mathbb{R}^2$	0.071	0.049	0.133	0.049		
Adjusted $\mathbb{R}^2$	0.062	0.042	0.127	0.043		

Table C5: Experiment 1: Party heterogeneity

*Notes:* The dependent variable is an indicator taking value 1 if the respondent donated to Fund the Wall. Columns 1-2 limit the sample to Republicans, while Columns 3-4 limit the sample to Independents. Columns 1 and 3 report results estimated on the sample from the main experiment, while Columns 2 and 4 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include dummies for strong Republican, weak Republican, Republican-leaning Independent, and Democrat-leaning Independent. Robust standard errors are reported.

			Dependent var	riable:		
	Excuse (1)	Immigration attitudes (2)	Public image (3)	Information (4)	Persuasion (5)	Biased (6)
Excuse	-0.005 (0.003)	$0.009 \\ (0.015)$	$0.020^{**}$ (0.010)	$0.012 \\ (0.015)$	-0.013 (0.011)	-0.00003 (0.013)
Control	-0.003 (0.003)	$0.133^{***}$ (0.015)	$0.037^{***}$ (0.010)	-0.012 (0.016)	$-0.081^{***}$ (0.012)	$-0.036^{**}$ (0.014)
p-value (Excuse = $Control$ )	0.62	< 0.001	0.098	0.13	< 0.001	0.012
Demographic controls Partisan affiliation controls	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
Include pilot data	Yes	Yes	Yes	Yes	Yes	Yes
DV mean DV std. dev.	$0.007 \\ 0.084$	$0.228 \\ 0.419$	$0.083 \\ 0.275$	$0.240 \\ 0.427$	$0.122 \\ 0.327$	$\begin{array}{c} 0.176 \\ 0.381 \end{array}$
Observations $R^2$	4,514 0.004	4,514 0.028	4,514 0.018	4,513 0.011	4,514 0.022	4,512 0.009
Adjusted $\mathbb{R}^2$	0.001	0.025	0.015	0.007	0.019	0.006

Table C6: Experiment 1: Perceived purpose of study

*Notes:* The dependent variable in each column is an indicator taking value 1 if the respondent's perceived purpose of the study was coded to fall into the corresponding category. "Excuse" takes value 1 if the respondent correctly inferred the study was about whether knowing that others will know one had an "excuse" for donating would affect the donation decision. "Immigration attitudes" takes value 1 if the respondent stated the study was about attitudes toward immigration. "Public image" takes value 1 if the respondent stated the study was about attitudes toward immigration. "Public image" takes value 1 if the respondent stated the study was about disseminating information about immigration. "Persuasion" takes value 1 if the respondent stated the study was about disseminating information about immigration. "Persuasion" takes value 1 if the respondent stated the researchers were attempting to persuade them either to donate or not to donate. "Bias" takes value 1 if the respondent stated the researchers were biased. "Other" takes value 1 if the respondent stated a purpose that did not fall into any of the above categories. Categories other than "Other" are not mutually exclusive. All specifications pool the main experiment and the pilot and contol for demographics and partisan affiliation. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. Partisan affiliation controls include dummies for strong Republican, weak Republican, Republican-leaning Independent, and Democrat-leaning Independent. Robust standard errors are reported.

	Dependent variable:
	Attrited (1)
Age	-0.001 (0.003)
Age squared	0.00004 (0.00003)
Black	-0.008 (0.048)
Asian	$0.049 \\ (0.055)$
White	$0.036 \\ (0.040)$
Hispanic	-0.027 (0.030)
Male	$-0.056^{***}$ $(0.017)$
High school	-0.026 (0.052)
Some college, no degree	-0.046 (0.052)
Associate degree	-0.061 (0.054)
Bachelor degree	-0.033 (0.052)
Post-bachelor degree	-0.067 (0.055)
Rep-leaning Ind	-0.004 (0.023)
Weak Rep	$-0.048^{**}$ (0.022)
Strong Rep	-0.030 (0.028)
Excuse $\times$ Age	-0.003

 Table C7:
 Experiment 2:
 Attrition

Continued on next page

	Attrited (1)
	(0.003)
Excuse $\times$ Age squared	0.00004 ( $0.00003$ )
Excuse $\times$ Black	$0.072 \\ (0.064)$
Excuse $\times$ Asian	-0.027 (0.077)
Excuse $\times$ White	$0.007 \\ (0.051)$
Excuse $\times$ Hispanic	$0.019 \\ (0.040)$
Excuse $\times$ Male	0.019 (0.024)
Excuse $\times$ High school	$0.035 \\ (0.068)$
Excuse $\times$ Some college, no degree	$0.007 \\ (0.068)$
Excuse $\times$ Associate degree	$0.051 \\ (0.072)$
Excuse $\times$ Bachelor degree	$0.062 \\ (0.069)$
Excuse $\times$ Post-bachelor degree	$0.052 \\ (0.073)$
Excuse $\times$ Rep-leaning Ind	-0.004 (0.032)
Excuse $\times$ Weak Rep	$0.021 \\ (0.031)$
Excuse $\times$ Strong Rep	$0.045 \\ (0.039)$
DV mean (no excuse) DV mean (excuse)	$0.151 \\ 0.159$
Observations $\mathbb{R}^2$	$3,792 \\ 0.031$

Table C7 – Continued from previous page

Continued on next page

	Attrited
	(1)
Adjusted R <sup>2</sup>	0.024

Table C7 – Continued from previous page

*Notes:* The dependent variable is an indicator that takes value 1 if the respondent attrited post-randomization. The sample is limited to respondents in the Excuse and No Excuse condition. Robust standard errors are reported.

<b>Panel A</b> : Excuse $v$	s. No Excuse	
	Predicted Excuse	Predicted Excuse
True Excuse	213	244
True No Excuse	210	210
	0	verall accuracy: 0.4823
Panel B: Control a	vs. No Excuse	
	Predicted Excuse	Predicted Excuse
True Control	197	180
True No Excuse	136	283
	0	verall accuracy: 0.6030
Panel C: Control a	vs. Excuse	
	Predicted Excuse	Predicted Excuse
True Control	188	159
True Excuse	136	315
	0	verall accuracy: 0.6303

Table C8: Experiment 1: Condition prediction confusion matrices

*Notes:* Each cell reports the number of individuals who were assigned to the condition in the corresponding row and who were classified by the Support Vector Machine as belonging to the condition in the corresponding column. Each panel limits the data to the corresponding two conditions. The classifiers were trained on a 75% sample of the limited dataset; the table reports prediction results on the test set of the remaining 25% of the limited dataset. Overall accuracy is calculated as the proportion of correct predictions.

	Predicted Excuse	Predicted Excuse
True Excuse	212	185
True No Excuse	194	188
	C	Overall accuracy: 0.5135

 Table C9:
 Experiment 2:
 Condition prediction confusion matrix

Notes: Each cell reports the number of individuals who were assigned to the condition (Excuse or No Excuse) in the corresponding row and who were classified by the Support Vector Machine as belonging to the condition in the corresponding column. The classifier was trained on a 75% sample of the data; the table reports prediction results on the test set of the remaining 25% of the data. Overall accuracy is calculated as the proportion of correct predictions.

### Table C10: Experiment 2: Sample representativeness

	Experiment 2	Pew
Variables:	(1)	(2)
Age	41.58	46.67
Black	0.18	0.26
Asian	0.05	0.05
White	0.62	0.49
Hispanic	0.14	0.17
Male	0.47	0.39
Bachelors degree or higher	0.46	0.36
Observations	5151	4005

*Notes:* Mean of respondent characteristics in experiment 2 and the 2018 Pew Research Center's American Trends Panel Wave 39. Attriters dropped from sample.

	Ov	rerall	Excuse	No Excuse	p-value
	mean	std.dev.	mean	mean	$\overline{(E=NE)}$
Variables:	(1)	(2)	(3)	(4)	(5)
Age	41.376	15.639	41.703	41.048	0.247
Black	0.182	0.386	0.186	0.179	0.612
Asian	0.045	0.208	0.049	0.042	0.386
White	0.710	0.454	0.703	0.716	0.455
Hispanic	0.140	0.347	0.136	0.144	0.561
Male	0.450	0.498	0.451	0.448	0.840
High school diploma	0.983	0.130	0.983	0.983	0.998
Bachelors degree	0.446	0.497	0.454	0.439	0.391

 Table C11:
 Experiment 2:
 Balance of covariates

Notes: p-values based on robust standard errors reported. Attriters dropped from sample.

	Dependent variable:
	Attrited
Age	$(1) \\ 0.001 \\ (0.002)$
Age squared	0.00001 (0.00002)
Black	-0.017 (0.025)
Asian	-0.010 (0.032)
White	$-0.038^{*}$ (0.022)
Hispanic	$0.006 \\ (0.016)$
Male	$egin{array}{c} -0.029^{***}\ (0.010) \end{array}$
High school	0.0004 (0.039)
Some college, no degree	-0.023 (0.038)
Associate degree	-0.030 (0.040)
Bachelor degree	-0.034 (0.038)
Post-bachelor degree	-0.053 (0.040)
Strong Democrat	-0.013 (0.011)
Excuse $\times$ Age	-0.001 (0.002)
Excuse $\times$ Age squared	0.00001 (0.00002)
Excuse $\times$ Black	$0.046 \\ (0.034)$
Excuse $\times$ Asian	-0.013 (0.044)
Excuse $\times$ White	$0.045 \\ (0.030)$
Excuse $\times$ Hispanic	$0.030 \\ (0.023)$
Excuse $\times$ Male	-0.016

 Table C12:
 Experiment 2:
 Attrition

Continued on next page

Table C12 – Continued from previous page	
	Attrited (1)
	(0.015)
Excuse $\times$ High school	-0.008 (0.048)
Excuse $\times$ Some college, no degree	-0.008 (0.047)
Excuse $\times$ Associate degree	-0.023 (0.050)
Excuse $\times$ Bachelor degree	-0.010 (0.048)
Excuse $\times$ Post-bachelor degree	-0.010 (0.051)
Excuse $\times$ Strong Democrat	-0.001 (0.016)
DV mean (no excuse)	0.086
DV mean (excuse)	0.077
Observations	5,515
$R^2$ Adjusted $R^2$	0.015 0.010

*Notes:* The dependent variable is an indicator that takes value 1 if the respondent attrited post-randomization. The sample is limited to respondents in the Excuse and No Excuse condition. Robust standard errors are reported.

			Depender	nt variable:		
		Infe	rence abou	t partner's s	core	
	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Bias (z-score)						
Used bias word	$0.477^{***}$	0.473***	0.473***	0.502***	0.500***	0.500***
	(0.072)	(0.072)	(0.072)	(0.057)	(0.056)	(0.056)
Constant	$-0.078^{***}$	-0.283	-0.301	$-0.070^{***}$	-0.107	-0.149
	(0.027)	(0.278)	(0.281)	(0.021)	(0.220)	(0.222)
Observations	1,524	1,524	1,524	2,532	2,532	2,532
$\mathbb{R}^2$	0.028	0.061	0.061	0.030	0.060	0.061
Adjusted R <sup>2</sup>	0.027	0.053	0.052	0.030	0.056	0.056
Panel B: Gullibility (z-sco	re)					
Used gullibility word	0.520***	0.486***	0.484***	0.429***	0.398***	0.397***
	(0.089)	(0.088)	(0.088)	(0.071)	(0.070)	(0.070)
Constant	-0.039	0.064	-0.055	$-0.037^{*}$	-0.003	-0.107
	(0.026)	(0.300)	(0.302)	(0.021)	(0.232)	(0.234)
Observations	1,523	1,523	1,523	2,533	2,533	2,533
$\mathbb{R}^2$	0.022	0.054	0.059	0.014	0.042	0.046
Adjusted R <sup>2</sup>	0.021	0.046	0.051	0.014	0.037	0.041
Demographic controls	No	Yes	Yes	No	Yes	Yes
Partisan affiliation controls	No	No	Yes	No	No	Yes
Include pilot data	No	No	No	Yes	Yes	Yes

Table C13: Experiment 2: Relationship between perceived motive and scores

*Notes:* The dependent variable in Panel A is the negative of the z-score of the respondent's guess as to his or her matched respondent's score on the Foreign Culture Tolerance Scale, where we take the negative to interpret higher values as greater bias. The dependent variable in Panel B is the z-score of the respondent's guess as to his or her matched respondent's score on the Gullibility Scale. Both scales were originally scored between 0 and 100. Columns 1-3 report results estimated on the sample from the main experiment, while Columns 4-6 pool the sample from the main experiment with the sample from the pilot. Demographic controls include age, age squared, a set of race indicators, a Hispanic indicator, a male indicator, and a set of education indicators. The partisan affiliation control is an indicator that takes value 1 if the respondent self-reports being a strong Democrat, with weak Democrat as the reference category. Robust standard errors are reported.

# C Survey instruments: motivating survey

### C.1 Instructions: Excuse condition

Before proceeding, please re-confirm your consent to the following:

I consent to researchers at Harvard University and University of Chicago accessing the following information from my study provider: **first and last name, and city. There is no need to provide your first and last name, and city in this survey. The survey company we work with has this information already.** 

• Yes, I consent and would like to proceed with the survey.

O No, I do not consent and would like to terminate the survey now.

We are interested in understanding whether you agree with the following statement:

# I support a permanent ban on Mexican immigration to protect the US from contagious diseases, such as the coronavirus

As researchers, we believe it is important to communicate whether people in Mannheim support a permanent ban on Mexican immigration. Therefore, we will post the results from this survey, **including** your individual response and the responses of all of the other respondents to this survey who consented on the previous page, on our study website.

If you indicate that you support a permanent ban on Mexican immigration, our website will read: "XXX supports a permanent ban on Mexican immigration to protect the US from contagious diseases, such as the coronavirus." If you indicate that you do not support a permanent ban on Mexican immigration, our website will read: "XXX does not support a permanent ban on Mexican immigration."

We will promote our website via Facebook ads targeting both liberals and conservatives residing in Mannheim.

We will post whether you indicate your support for a permanent ban on Mexican immigration on our website. Here is an example screenshot of how the relevant portion of the web page could look like.



Do you agree with the following statement?

I support a permanent ban on Mexican immigration to protect the US from contagious diseases, such as the coronavirus

O Yes

63

### C.2 Instructions: No Excuse condition

Before proceeding, please re-confirm your consent to the following:

I consent to researchers at Harvard University and University of Chicago accessing the following information from my study provider: **first and last name, and city. There is no need to provide your first and last name, and city in this survey. The survey company we work with has this information already.** 

Yes, I consent and would like to proceed with the survey.

O No, I do not consent and would like to terminate the survey now.

Do you worry that Mexican immigration could make the country more vulnerable to contagious diseases, such as the coronavirus?

O Yes			
O No			

**>>** 

We are interested in understanding whether you agree with the following statement:

### I support a permanent ban on Mexican immigration

As researchers, we believe it is important to communicate whether people in Mannheim support a permanent ban on Mexican immigration.

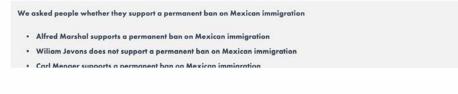
Therefore, we will post the results from this survey, **including** your individual response and the responses of all of the other respondents to this survey who consented on the previous page, on our study website.

If you indicate that you support a permanent ban on Mexican immigration, our website will read: **"XXX supports a permanent ban on Mexican immigration."** If you indicate that you do not support a permanent ban on Mexican immigration, our website will read: **"XXX does not support a permanent ban on Mexican immigration."** 

We will promote our website via Facebook ads targeting both liberals and conservatives residing in Mannheim.



We will post whether you indicate your support for a permanent ban on Mexican immigration on our website. Here is an example screenshot of how the relevant portion of the web page could look like.



Do you agree with the following statement?

I support a permanent ban on Mexican immigration



# D Survey instruments: Experiment 1

and the informat city, and other). V identifyi	r, I consent to researchers at Harvard University University of Chicago accessing the following tion from my study provider: first and last name, I operating system (Windows, Mac, IOS, Android, or Ve will not have access to any other personally- ng information, and the information will be used y purposes only.
() Yes	
() No	

The next question is about the following problem. In questionnaires like ours, sometimes there are participants who do not carefully read the questions and just quickly click through the survey. This means that there are a lot of random answers which compromise the results of research studies. **To show that** you read our questions carefully, please choose both "Extremely Interested" and "Not at all Interested" as your answer In the next question. How interested are you in sports?

Extremely interested		
Very interested		
A little bit interested		
Almost not interested		
Not at all interested		

Are you Spanish, Hispanic, or Latino or none of these?

O Yes
0.100

O None of these

What is your year of birth?

	•
-	_

What is your sex?

O Male		
O Female		

In politics, as of today, do you consider yourself a Republican, a Democrat, or an Independent?

O Republican		
O Democrat		
O Independent		



Do you strongly support or weakly support the Republican Party?

Stro		

O Weakly support



What is the highest level of school you have completed or the highest degree you have received?

O Less than high school degree

O High school graduate (high school diploma or equivalent including GED)

O Some college but no degree

O Associate degree in college (2-year)

O Bachelor's degree in college (4-year)

O Master's degree

O Doctoral degree

O Professional degree (JD, MD)

Which of the following best describes your race or ethnicity?

O African American/Black	
🔿 Asian/Asian American	
○ Caucasian/White	
O Native American, Inuit or Aleut	
O Native Hawaiian/Pacific Islander	
O Other	

Please read the following information carefully, as it is important for the rest of the survey.



Studying the crime rates of illegal immigrants is difficult. As the independent fact-checking organization PolitiFact reported in 2016, "The challenge in finding concrete numbers is due to a shortfall of data. There is no national database or study tracking how many people have been killed by undocumented immigrants or the nationality of the victims."

Therefore, most previous research has used flawed data.

### Information about Lott Study: Excuse and No Excuse condition

Do Illegal Immigrants Commit More Crime? Evidence from Dr. Lott's Study

Dr. John R. Lott, an economist formerly employed at top institutions such as Yale University and the University of Chicago, carried out a study on the relationship between illegal immigration and crime using new high-quality data. **The study** has not yet been published in an academic journal, but we obtained an early version and summarize the results below.

Dr. Lott's study uses **detailed data spanning over two decades from the Arizona state prison systems**. He finds that **"undocumented immigrants are at least 142% more likely** to be convicted of a crime than other Arizonans. They also tend to commit **more serious crimes**," such as murder and rape.

Moreover, "young undocumented immigrants commit crime at twice the rate of young U.S. citizens." He calculates that "if undocumented immigrants committed crime nationally as they do in Arizona, in 2016 they would have been responsible for over **1,000 more murders**, **5,200 rapes**, **8,900 robberles**, **25,300 aggravated assaults, and 26,900 burglaries**. The vast majority of the illegal immigrants Lott studies are from Mexico.

However, a number of sources (including a researcher affiliated with the Cato Institute, a non-partisan think tank) have recently challenged some of the study's methods, claiming that errors in analysis invalidate its results. Dr. Lott has responded to this critique with a defense of the study's methods, but the issue remains unresolved.

Do you think that Dr. Lott's study will be widely discussed in the media when it is published in an academic journal?

() Yes

() No

### Reconsent

Before proceeding, please re-confirm your consent to the following:

I consent to researchers at Harvard University and University of Chicago accessing the following information from my study provider: first and last name, city, and operating system (Windows, Mac, iOS, Android, or other). We will not have access to any other personallyidentifying information, and the information will be used for study purposes only.

O Yes, I consent and would like to proceed with the survey.

O No, I do not consent and would like to terminate the survey now

### Description of donation decision

We will now **randomly** select one of two organizations, and you will have the opportunity to authorize a \$1 donation to this organization. We will make the donation on your behalf, so **it will not be deducted from your payment**.

- One organization seeks to reduce illegal immigration into the United States by raising money for and helping construct the US-Mexico border wall.
- The other organization seeks to aid families detained at the border by providing them with legal assistance and counsel.

On the next screen, you will be shown which organization has been selected.

#### **Donation decision**

The organization randomly selected for you is Fund the Wall.

Fund the Wall is a nonprofit organization that seeks to reduce illegal immigration into the United States by helping to fund and construct the US-Mexico border wall. If you wish, you can choose to authorize a \$1 donation to Fund the Wall.

We will make the donation on your behalf, so it will not be deducted from your payment.

### Website Excuse condition and No Excuse condition

#### Publicizing the results of our study

As researchers, we believe it is important to communicate our findings about political and social attitudes in Mannheim to the public.

Therefore, once Dr. Lott's study is published in a reputable academic journal, we will post the results from this survey, including your individual donation decision and the donation decisions of all of the other respondents to this survey who consented on the previous page, on our website.

We will then work with major news organizations in Mannheim with both a liberal and conservative viewership to publicize our website through newspaper and website articles, and we will also promote our website via Facebook ads to Mannheim residents.

### What website visitors will learn

As you can see on the screenshot below, website visitors learn about Dr. Lott's study.

Do Illegal Immigrants Commit More Crime? Evidence from Dr. Lott's Study

Dr. John R. Lott, an economist formerly employed at top institutions such as Yale University and the University of Chicago, has posted a study on illegal immigration and crime. Dr. Lott's study uses detailed data spanning over two decades from the Arizona state prison systems. He finds that "undocumented immigrants are at least 142% more likely to be convicted of a crime than other Arizonans. They also tend to commit more serious crimes," such as murder and rape. Moreover, "young undocumented immigrants commit crime at twice the rate of young U.S. citizens."

He calculates that "if undocumented immigrants committed crime nationally as they do in Arizona, in 2016 they would have been responsible for over **1,000** more murders, **5,200 rapes**, **8,900** robberies, **25,300 aggravated assaults**, and **26,900 burglaries**." The vast majority of the illegal immigrants lott studies are from Mexico. Given that there have been relatively few academic studies using highquality data, Dr. Lott's study is among the **first of its** kind. However, a number of sources (including the Cato Institute, a non-partisan think tank) have recently challenged some of the study's methods, claiming that errors in analysis invalidate its results. Dr. Lott has responded to this critique with a defense of the study's methods, but the issue remains unresolved.

What do you think website visitors will conclude about Dr. Lott's study after visiting the web pagepage?

 $\bigcirc$  That Dr. Lott finds that illegal immigrants are less likely to commit crimes than US citizens.

 $\bigcirc$  That Dr. Lott finds that illegal immigrants are equally likely to commit arimes as US citizens.

 $\bigcirc$  That Dr. Lott finds that illegal immigrants are more likely to commit crimes than US citizens.



# **Donation: Excuse condition**

### What website visitors will learn

We will post your individual donation decision on our website. Here is an example screenshot of the relevant portion of the website we showed to previous study respondents.

- The page states that all participants were told about Dr. Lott's study before deciding whether or not to donate to Fund the Wall
- The page lists individual decisions and whether each participant decided to authorize the donation to Fund the Wall

# **Study Structure**

We surveyed respondents earlier this year. All participants were told about Dr. Lott's study. Participants were asked if they wanted to authorize a donation to Fund the Wall, an organization that seeks to reduce illegal immigration by helping to fund and construct the US-Mexico border wall.

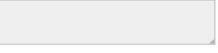
### **Donation decisions**

- Alfred Marshall was told about Dr. Lott's study and authorized the donation to Fund the Wall
- William Jevons was told about Dr. Lott's study and did not authorize the donation to Fund the Wall
- Carl Menger was told about Dr. Lott's
   study and did not authorize the

How clear will it be from the website whether or not you chose to donate to Fund the Wall?

O Very clear			
() Clear			
O Unclear			
O Very unclear			

People who visit the website **will know** that you were shown the results of Dr. Lott's study before making your donation decision. How clear was this to you from the screenshots we posted above? Please explain in 1–2 sentences.



### Reminder: what website visitors will learn

- They will see that Dr. Lott's study finds that illegal immigrants commit more crime than US citizens
- They will learn whether or not you donated to Fund the Wall
- They will learn that **you were informed** about the results of Dr. Lott's study



## **Donation decision**

Would you like to authorize a \$1 donation to Fund the Wall?

O Yes, I would like to authorize a \$1 donation

No, I would not like to authorize a \$1 donation

Recall what people will learn when visiting the website:

- They will see that Dr. Lott's study finds that illegal immigrants commit more crime than US citizens
- They will learn whether or not you donated to Fund the Wall
- They will learn that you were informed about the results of Dr. Lott's study

# **Donation: No Excuse condition**

#### What website visitors will learn

We will post your individual donation decision on our website. Here is an example screenshot of the relevant portion of the website we showed to previous study respondents.

- The page states that all participants made their decisions before Dr. Lott's study was published. The page does not mention that you were shown an early summary of Dr. Lott's study.
- The page lists individual decisions and whether each participant decided to donate to Fund the Wall.

# **Study Structure**

We surveyed respondents earlier this year before Dr. Lott's study was published. Participants were asked if they wanted to authorize a donation to Fund the Wall, an organization that seeks to reduce illegal immigration by helping to fund and construct the US-Mexico border wall.

### **Donation decisions**

- Alfred Marshall was surveyed before Dr. Lott's study was published and authorized the donation to Fund the Wall
- William Jevons was surveyed before Dr. Lott's study was published and did not authorize the donation to Fund the Wall
- Carl Menger was surveyed before Dr. Lott's study was published and did not subbasize the densitien to Euclid the Wall

How clear will it be from the website whether or not you chose to donate to Fund the Wall?

O Very clear		
() Clear		
🔘 Unclear		
O Very unclear		

People who visit the website **will not know** that you were shown the results of Dr. Lott's study before making your donation decision since the website states that you were surveyed before the study was published and does not mention that you were shown a summary of the study's findings. How clear was this to you from the screenshots we posted above? Please explain in 1–2 sentences.



#### Reminder: what website visitors will learn

- They will see that Dr. Lott's study finds that illegal immigrants commit more crime than US citizens
- They will learn whether or not you donated to Fund the Wall
- They will believe you were not informed about the results of Dr. Lott's study



### **Donation decision**

Would you like to authorize a \$1 donation to Fund the Wall?

O Yes, I would like to authorize a \$1 donation

🔿 No, I would not like to authorize a \$1 donation

Recall what people will learn when visiting the website:

- They will see that Dr. Lott's study finds that illegal immigrants commit more crime than US citizens
- They will learn whether or not you donated to Fund the Wall
  They will **not learn that you were informed** about the
- results of Dr. Lott's study, as the website states that you were surveyed before the study was published and does not mention that you were shown a summary of the study's findings

# **Donation: control condition**

### Publicizing the results of our study

As researchers, we believe it is important to communicate our findings about political and social attitudes in Mannheim to the public.

Another group of researchers is working on a related study, and once that study is published in a reputable academic journal, we will post the results from this survey, **including your individual donation decision and the donation decisions of all of the other respondents to this survey who consented on the previous page**, on our website.

We will then work with major news organizations with both a liberal and conservative viewership in Mannheim to publicize our website through newspaper and website articles, and we will also promote our website via Facebook ads to Mannheim residents.

### What website visitors will learn

We will post your individual donation decision on our website. Here is an example screenshot of the relevant portion of the website we showed to previous study respondents.

• The page lists individual decisions and whether each participant decided to donate to Fund the Wall.

## **Study Structure**

We surveyed respondents earlier this year. Participants were asked if they wanted to authorize a donation to Fund the Wall, an organization that seeks to reduce illegal immigration by helping to fund and construct the US-Mexico border wall.

#### **Donation decisions**

- Alfred Marshall was surveyed and authorized the donation to Fund the Wall
- William Jevons was surveyed and did not authorize the donation to Fund the Wall
- Carl Menger was surveyed and did
   not authorize the donation to Fund the

How clear will it be from the website whether or not you chose to donate to Fund the Wall?

O Very cle	ar		
O Clear			
O Unclear			
O Very un	clear		

#### Reminder: what website visitors will learn

• They will learn whether or not you donated to Fund the Wall



# **Donation decision**

Would you like to authorize a \$1 donation to Fund the Wall?

O Yes, I would like to authorize a \$1 donation

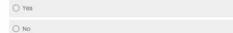
O No, I would not like to authorize a \$1 donation

Recall what people will learn when visiting the website:

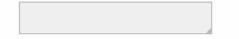
• They will learn whether or not you donated to Fund the Wall

# Post-outcome measures

Before today, had you taken any previous online surveys that discussed Dr. Lott's study about the crime rates of illegal immigrants?



If you had to guess, what would you say was the purpose of this study?



# E Survey instruments: Experiment 2

# E.1 Consent and pre-treatment questions

We are a group of **nonpartisan researchers** interested in compiling an accurate and unblased report about political and social attitudes in the US. This survey will take **approximately 5 minutes**.

Before proceeding, please note that it is important for our survey that you read all questions carefully and answer as accurately as possible. If your answers indicate that you did not carefully read questions, we will be forced to terminate your survey and will be unable to pay you.

Consent for Participation in a Research Study Study Title: Political and Social Attitudes Principal Investigator: Leonardo Bursztyn IRB Study Number: IRB19–1320

DESCRIPTION: We are doing a research study about political and social attitudes in the United States. The research project will consist of reading information and answering a few short questions. Participation should take approximately five minutes.

RISKS and BENEFITS: The risks to your participation in this online study are those associated with basic computer tasks, including boredom, fatigue, mild stress, or breach of confidentiality. The only benefit to you, other than survey compensation, is the learning experience from participating in a research study. The benefit to society is the contribution to scientific knowledge.

COMPENSATION: Upon completion of the study, you will receive compensation in the amount you have agreed to with the platform through which you entered this survey. Partially-completed survey responses will not be compensated.

CONFIDENTIALITY: All data will be stored on password-protected servers and hard drives. We do not ask for any identifying information.

Any reports and presentations about the findings from this study will not include any identifying information. We may share the data we collect in this study with other researchers doing future studies – if we share your data, we will not include information that could identify you.

SUBJECT'S RIGHTS: Your participation is voluntary. You may stop participating at any time by closing the browser window or the program to withdraw from the study.

For additional questions about this research, you may contact: Leonardo Bursztyn, bursztyn, research@gmail.com

Far questions about your rights as a research participant, you may contact: The Social & Behavioral Sciences Institutional Review Board, University of Chicago Phane: (773) 834-7835 E-mail: sbs-irb@uchicago.edu

Please indicate, in the box below, that you are at least 18 years old, have read and understand this consent form, and you agree to participate in this online research study.

I have read and understood the above and want to participate in this study.

O Yes
O No



The next question is about the following problem. In questionnaires like ours, sometimes there are participants who do not carefully read the questions and just quickly click through the survey. This means that there are a lot of random answers which compromise the results of research studies. **To show that you read our questions carefully, please choose both "Extremely interested" and "Not at all interested" as your answer in the next question.** How interested are you in sports?

Extremely interested
Very interested
A little bit interested
Almost not interested
Not at all interested

Are you Spanish, Hispanic, or Latino or none of these?
O Yes
O None of these
What is your year of birth?
Ÿ
What is your sex?
() Male
() Female
In politics, as of today, do you consider yourself a Republican, a Democrat, or an Independent?
O Republican
O Democrat
O Independent

Do you strongly support or weakly support the Democratic Party?

O Strongly support

O Weakly support

What is the highest level of school you have completed or the highest degree you have received?

O Less than high school degree

O High school graduate (high school diploma or equivalent including GED)

O Some college but no degree

O Associate degree in college (2-year)

O Bachelor's degree in college (4-year)

O Master's degree

O Doctoral degree

O Professional degree (JD, MD)

Which of the following best describes your race or ethnicity?

O African American/Black

🔘 Asian/Asian American

O Caucasian/White

O Native American, Inuit or Aleut

🔘 Native Hawaiian/Pacific Islander

() Other



# Do Illegal Immigrants Commit More Crime? Evidence from Dr. Lott's Study

Dr. John R. Lott, an economist formerly employed at top institutions such as Yale University and the University of Chicago, carried out a study on the relationship between illegal immigration and crime using new high-quality data. **The study has not yet been published in an academic journal, but we obtained an early version and summarize the results below.** 

Dr. Lott's study uses **detailed data spanning over two decades from the Arizona state prison systems**. He finds that **"undocumented immigrants are at least 142% more likely** to be convicted of a crime than other Arizonans. They also tend to commit **more serious crimes**," such as murder and rape.

Moreover, "young undocumented immigrants commit crime at twice the rate of young U.S. citizens." He calculates that "if undocumented immigrants committed crime nationally as they do in Arizona, in 2016 they would have been responsible for over **1,000 more murders**, **5,200 rapes**, **8,900 robberies**, **25,300 aggravated assaults**, **and 26,900 burglaries**. The vast majority of the illegal immigrants Lott studies are from Mexico.

However, a number of sources (including a researcher affiliated with the Cato Institute, a non-partisan think tank) have recently challenged some of the study's methods, claiming that errors in analysis invalidate its results. Dr. Lott has responded to this critique with a defense of the study's methods, but the issue remains unresolved.

# E.2 No Excuse condition

We conducted a survey about political and social attitudes in the United States earlier this year. You have been matched with one of the respondents from that survey.

We gave your matched respondent the opportunity to authorize a \$1 donation to **Fund the Wall**, a nonprofit organization that seeks to reduce illegal immigration into the United States by helping to fund and construct the US-Mexico border wall. Your matched respondent was told that their donation decision would be posted on our website. The decision on whether to authorize the donation did not have any financial consequences for your matched respondent.

Some respondents were assigned a longer version of the survey and learned about Dr. Lott's study before they decided whether or not to donate. Other respondents were assigned a shorter version of the study and **were not informed** about Dr. Lott's study before they decided whether or not to donate.

# Information about your matched respondent

- Your matched respondent **was not informed about Dr. Lott's study**, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent decided to authorize the \$1 donation to Fund the Wall

Why do you think your matched respondent chose to donate to Fund the Wall?

# **Reminder: Information about your matched respondent**

- Your matched respondent **was not informed about Dr. Lott's study**, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent decided to authorize the \$1 donation to Fund the Wall

After your matched respondent made their donation decision, they completed the **The Gullibility Scale**, a short questionnaire which measures **how easily people are manipulated by evidence from untrustworthy sources**.

On the next page, we will ask you to guess how your matched respondent scored on this scale. If you guess the correct option, you will be entered into a lottery for a \$50 Amazon gift card.

## The Gullibility Scale

We administered **The Gullibility Scale**, a short questionnaire which measures **how easily people are manipulated by evidence from untrustworthy sources**, to your matched respondent.

The test is scored from 0 to 100, where 0 means "least gullible" and 100 means "most gullible". Thus, a higher score indicates that your matched respondent is more gullible.

## Reminder: Information about your matched respondent

- Your matched respondent was not informed about Dr. Lott's study, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent decided to authorize the \$1 donation to Fund the Wall

### If you had to guess, how do you think your **matched respondent** scored on **The Gullibility Scale**?

O Score between 0 and 10 (Not at all gullible)
O Score between 10 and 20
O Score between 20 and 30
O Score between 30 and 40
O Score between 40 and 50
O Score between 50 and 60
O Score between 60 and 70
O Score between 70 and 80
O Score between 80 and 90
○ Score between 90 and 100 (Extremely gullible)

After your matched respondent made their donation decision, they completed the **Foreign Culture Tolerance Scale**, a short questionnaire which measures **tolerance toward foreign values and traditions**.

On the next page, we will ask you to guess how your matched respondent scored on this scale. If you guess the correct option, you will be entered into a lottery for a \$50 Amazon gift card.



### The Foreign Culture Tolerance Scale

We administered the **Foreign Culture Tolerance Scale**, a short questionnaire which measures tolerance toward **foreign values and traditions**, to your matched respondent.

The test is scored from 0 to 100, where 0 means "least tolerant" and 100 means "most tolerant". Thus, a higher score indicates that your matched respondent is more tolerant toward foreign values and traditions.

#### Reminder: Information about your matched respondent

- Your matched respondent was not informed about Dr. Lott's study, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent decided to authorize the \$1 donation to Fund the Wall

If you had to guess, how do you think your **matched respondent** scored on the **Foreign Culture Tolerance Scale**?

Score between 0 and 10 (Not at all tolerant)
Score between 10 and 20
Score between 20 and 30
Score between 30 and 40
Score between 40 and 50
Score between 50 and 60
Score between 60 and 70
Score between 70 and 80
Score between 80 and 90
Score between 90 and 100 (Extremely tolerant)

# E.3 Excuse condition

We conducted a survey about political and social attitudes in the United States earlier this year. You have been matched with one of the respondents from that survey.

We gave your matched respondent the opportunity to authorize a \$1 donation to **Fund the Wall**, a nonprofit organization that seeks to reduce illegal immigration into the United States by helping to fund and construct the US-Mexico border wall. Your matched respondent was told that their donation decision would be posted on our website. The decision on whether to authorize the donation did not have any financial consequences for your matched respondent.

Some respondents were assigned a longer version of the survey and learned about Dr. Lott's study before they decided whether or not to donate. Other respondents were assigned a shorter version of the study and **were not informed** about Dr. Lott's study before they decided whether or not to donate.

# Information about your matched respondent

- Your matched respondent **was informed about Dr. Lott's study**, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent then decided to authorize the \$1 donation to Fund the Wall

Why do you think your matched respondent chose to donate to Fund the Wall?

# **Reminder: Information about your matched respondent**

- Your matched respondent **was informed about Dr. Lott's study**, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent then decided to authorize the \$1 donation to Fund the Wall

After your matched respondent made their donation decision, they completed the **The Gullibility Scale**, a short questionnaire which measures **how easily people are manipulated by evidence from untrustworthy sources**.

On the next page, we will ask you to guess how your matched respondent scored on this scale. If you guess the correct option, you will be entered into a lottery for a \$50 Amazon gift card.

## The Gullibility Scale

We administered **The Gullibility Scale**, a short questionnaire which measures **how easily people are manipulated by evidence from untrustworthy sources**, to your matched respondent.

The test is scored from 0 to 100, where 0 means "least gullible" and 100 means "most gullible". Thus, a higher score indicates that your matched respondent is more gullible.

#### Reminder: Information about your matched respondent

- Your matched respondent was informed about Dr. Lott's study, which finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent then decided to authorize the \$1 donation to
   Fund the Wall

If you had to guess, how do you think your **matched respondent** scored on **The Gullibility Scale**?





After your matched respondent made their donation decision, they completed the **Foreign Culture Tolerance Scale**, a short questionnaire which measures **tolerance toward foreign values and traditions**.

On the next page, we will ask you to guess how your matched respondent scored on this scale. If you guess the correct option, you will be entered into a lottery for a \$50 Amazon gift card.



# The Foreign Culture Tolerance Scale

We administered the **Foreign Culture Tolerance Scale**, a short questionnaire which measures tolerance toward **foreign values and traditions**, to your matched respondent.

The test is scored from 0 to 100, where 0 means "least tolerant" and 100 means "most tolerant". Thus, a higher score indicates that your matched respondent is more tolerant toward foreign values and traditions.

#### Reminder: Information about your matched respondent

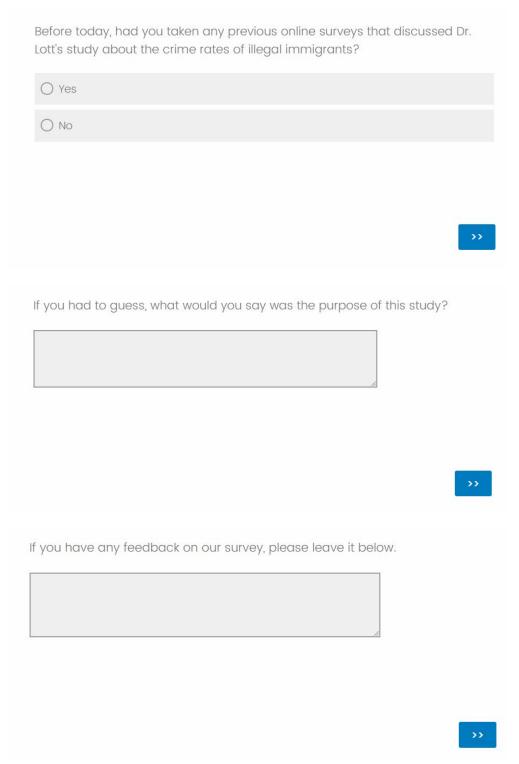
- Your matched respondent was informed about Dr. Lott's study, which
  finds that illegal immigrants commit more crimes than US citizens
- Your matched respondent then decided to authorize the \$1 donation to
   Fund the Wall

If you had to guess, how do you think your **matched respondent** scored on the **Foreign Culture Tolerance Scale**?

Score between 0 and 10 (Not at all tolerant)
Score between 10 and 20
Score between 20 and 30
Score between 30 and 40
Score between 40 and 50
Score between 50 and 60
Score between 60 and 70
Score between 70 and 80
Score between 80 and 90
Score between 90 and 100 (Extremely tolerant)



# E.4 Post-treatment questions and debrief



# Thanks for completing all our questions!

Study Title: Political and Social Attitudes Principal Investigator: Leonardo Bursztyn IRB Study Number: IRB19-1320

Debrief about crime rates among immigrants in the survey

We earlier provided you with truthful information about Dr Lott's study. As we mentioned earlier in the survey, Dr. Lott's study has been challenged by a number of sources for inaccuracies in data analysis. While his methods have not been entirely debunked, there remains a great deal of controversy. Due to these problems, it is unclear whether Dr. Lott's results will be published in a reputable academic journal. We did not expand upon this controversy during the study, but if you wish to read more, we suggest this <u>analysis</u> by a researcher at the Cato Institute, a nonpartisan think-tank.

Immigration and crime refers to perceived or actual relationships between <u>crime</u> and <u>immigration</u>. The academic literature provides mixed findings for the relationship between immigration and crime worldwide, but finds for the United States that immigration either has no impact on the crime rate or that it reduces the crime rate. A metaanalysis of 51 studies from 1994–2014 on the relationship between immigration and crime in the United States found that overall immigration reduces crime, but the relationship is very weak. Research suggests that people tend to overestimate the relationship between immigration and criminality, and that the media tends to erroneously depict immigrants as particularly crime-prone.

The relevant meta-analysis we are referring to is the following article. Ousey, Graham C.; Kubrin, Charis E. (2018). "Immigration and Crime: Assessing a Contentious Issue". *Annual Review of Criminology*. **1** (1): null.

To get more information on this meta-analysis, clock on the link below: doi:10.1146/annurev-criminol-032317-092026.

### Contacts & Questions:

If you have questions or concerns about the study, you can contact the researchers at bursztyn.research@gmail.com.

Final Report: If you would like to receive a report of this study (or a summary of the findings) when it is completed, contact the researcher at the email address or phone number above.