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**Easing the Heavy Hand:
Humanitarian Concern, Empathy, and Opinion on Immigration**

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ABSTRACT

The bulk of the public opinion research on immigration identifies the factors leading to opposition to immigration. In contrast, we focus on a previously unexplored factor yielding support for immigration: humanitarianism. Relying upon secondary analysis of national survey data and an original survey experiment, we demonstrate that humanitarian concern significantly decreases support for restrictive immigration policy. Results from our survey experiment demonstrate that in an information environment evoking both threat and countervailing humanitarian concern regarding immigration, the latter can and does override the former. Last, our results point to the importance of individual differences in empathy in moderating the effects of both threat and humanitarian inducements.

Keywords: Immigration, Public Opinion, Humanitarianism, Empathy

Within the public opinion research on immigration, there is a distinct asymmetry with respect to the way scholarship has approached understanding the factors that shape mass attitudes—the research questions pursued are overwhelmingly framed in the negative: Why citizens *dislike*, are *threatened by*, and ultimately *oppose* immigration. The literature is replete with work addressing prejudice toward immigrant minorities¹, the personality traits from which this prejudice stems², the existence and impact of different types of threats posed by immigrants³, studies focusing on public support for specific restrictive or ethno-nativist immigration policies⁴, and the importance of the media in shaping opposition to immigration⁵.

Within all of this work there is little to no research examining the factors that lead people to be *supportive* of immigrants. Few published studies explicitly seek to explain pro-immigrant sentiment⁶, and one of the only individual-level factors consistently identified throughout the opinion literature to weaken opposition to immigration is education⁷. If anything, the question is left to be answered primarily by implication through inverting known findings; in other words, if opposition is predicted by prejudice, threat, and authoritarianism, for example, then support for immigration should exist among non-prejudiced, unthreatened, and non-authoritarian individuals. Inverting known findings, however, provides at best, an incomplete account for understanding or predicting pro-immigrant sentiment. To be sure, identifying the relative *absence* of factors known to boost opposition to immigration is not synonymous with, and thus does not diminish the predictive importance of, identifying the factors, if *present*, that yield support for immigrants. Even intergroup

¹ Burns and Gimpel 2000; Quillian 1995; Stephan et al. 1999.

² Guimond et al. 2010; Hetherington and Wieler 2009; Thomsen et al. 2008.

³ Citrin et al. 1997; Hood and Morris 1997; Sniderman et al. 2004; Stephan et al. 2005.

⁴ Campbell et al. 2006; Citrin et al. 1990b; Hood and Morris 2000; Tolbert and Grummel 2003.

⁵ Brader, Valentino, and Suhay 2008; Chavez 2008; Hopkins 2010; Waldman et al. 2008.

⁶ cf., Haubert and Fussell 2006.

⁷ Burns and Gimpel 2000; Haubert and Fussell 2006; Fetzer 2000.

contact, which has been shown to reduce antipathy toward immigrant minorities⁸, is primarily theorized as an experiential factor connected to the varying situations of individuals (e.g., the density of immigrants in their residential context, the degree of workplace contact, etc.) rather than as an inherent characteristic of individuals (e.g., values or personality traits) that generates support for immigrants. In short, scholars have spent considerably more time informing us about the negative aspects of individual citizens that foster hostility toward immigrants and much less time theorizing and empirically exploring the range of positive characteristics, values, or capacities that promote support for immigration.

More importantly, the asymmetry in the opinion research is out of synch with the actual political battlefield over immigration, where historically and at present, there exist myriad pro-immigrant groups. In attempting to identify the sources of support for immigration, one need only look to the principles and messages of these groups. In sifting through the mission statements of many pro-immigrant organizations, there tends to be two common and preponderant themes that arise: Human rights and humanitarian concern. For instance, the American Friends Service Committee (AFSC), a religiously-based social justice, peace, and humanitarian service organization founded in 1917, has long provided aid and relief to immigrants from countries around the world. When it comes to contemporary U.S. immigration policy, the AFSC advocates “humanely reforming immigration policy,” a position founded by their religiously-based belief in the “worth of every human-being,” as well as their organizational commitment to working toward the “fair and humane treatment of all people, including immigrants.”⁹ The values of the AFSC are echoed by the Massachusetts Immigrant and Refugee Interest Coalition (MIRA), the largest immigrant rights organization in New England, which advocates for the reform of state and federal immigration laws

⁸ Dixon and Rosenbaum 2004; Hood and Morris 1997; Stein, Post, and Rinden 2000; Van Laar, Levin, Sinclair, and Sidanius 2005.

⁹ <http://afsc.org/>

toward more permissive policies aimed at upholding human rights. MIRA, for example, advocates for decreasing the severity and intensity of immigration and customs enforcement, as well as increasing immigrants' eligibility and access to government services. In the battlefield over immigration policy, where anti-immigrant organizations argue for more restrictive policies often based upon notions of patriotism, nativism, or xenophobia, there are many pro-immigrant groups acting on behalf of concern for the welfare of others and the protection of their basic human rights. Thus, while immigration-related threat is a core impetus for anti-immigrant organizing and action, humanitarianism appears to be a common and powerful motivating force among those taking action on behalf of immigrants.

In this article, we seek to assess the impact of humanitarianism as a core pro-social orientation on public preferences over government immigration policy. First and foremost, using national survey data from 1996 and 2005, we test whether individual-level variation in concern over the welfare of others and a sense of duty to help those less well-off than oneself significantly reduces general opposition to immigration. Next, we replicate these secondary analyses with original survey data. Given the importance of media information in generating public concern over immigration, specifically in regards to the threats of immigration¹⁰, we seek to assess, beyond extant individual differences in humanitarianism, whether media messages activating humanitarian concerns can generate permissiveness on immigration policies. More specifically, we aim to determine whether media information generating humanitarian concern can counteract or even override the effect of the more common threat-based messages found in media discourse. Utilizing an original survey experiment, we investigate whether exposure to information detailing the tribulations of an immigrant group in their home country enhances support for opening the border and allowing legal immigrants to enter the country. Last, we determine whether individual variation in empathy for

¹⁰ Chavez 2008; Waldman et al. 2008.

others conditions the responsiveness of citizens to information intended to activate humanitarian concern for immigrants.

HUMANITARIANISM AND IMMIGRATION

The immigration-threat framework that dominates the literature has undeniably enriched our understanding of the beliefs, personality traits, and contextual factors that enhance opposition to immigration. Despite this contribution, the threat framework appears insufficient as a comprehensive account of opinion on immigration given levels of support for immigration that exist among the mass publics. For example, on the most basic policy issue in which American citizens' preferences are routinely solicited—determining the amount of legal immigration allowed by the government—a national poll conducted by Gallup in the summer of 2012 revealed that 21 percent of the public favored increasing the amount of legal immigration, 42 percent preferred keeping levels at their current amount, and only 35 percent wanted to decrease legal immigration.¹¹ Thus, despite some citizens' opposition to immigration, a majority of Americans do not appear to be overtly anti-immigrant, and a sizable group of people go out of their way to support immigration by endorsing an increase in the number of immigrants permitted to enter the U.S.

To compliment the threat perspective, we offer a values-based approach that emphasizes the role of humanitarian concern in generating support for immigration. Humanitarianism has been defined as a “pro-social orientation” which varies across individuals, consists of a sense of concern for the welfare of one's fellow human beings, and leads to the belief of personal responsibility to help those who are in need¹². The relevance of humanitarianism to public preferences over government policy has been firmly established within the domain of social welfare policy, as existing research demonstrates that individual variation in concern for the well-being of others strongly

¹¹ This poll can be accessed at the following website: <http://www.gallup.com/poll/1660/immigration.aspx>.

¹² Feldman and Steenbergen 2001; Staub 1989.

predicts support for government spending on social programs and services¹³, government programs specifically aimed at providing support to disadvantaged citizens in need of immediate relief¹⁴, and old-age programs for the elderly¹⁵. Building upon this work, we argue that humanitarianism should constitute an important foundation for shaping public opinion toward immigration policy. The principle basis for this extension, and thus the main source of the amenability of public preferences within the immigration policy domain to humanitarian concern, is that disadvantage and need tend to (1) underlie migration processes and (2) characterize immigrants as a general social category.

Historically and contemporaneously, a predominant motive among those seeking entry into the U.S. and other Western industrial democracies is the evasion of some set of undesirable conditions in their country of origin. These conditions, conceptualized as “push factors” driving immigrants away from their home country¹⁶, may range from relatively poor access to education and gainful employment, which restrict opportunities for economic mobility, to more extreme degradations such as acute poverty, pervasive crime, and severe political repression. At present, the majority of immigrants into advanced industrial nations are from countries that are underdeveloped relative to these target host nations, where several of these push factors are operative in motivating the exodus of citizens. Therefore, at the outset, many individuals seeking entry into the U.S. and Western Europe tend to qualify as targets for the application of humanitarian concern given the moderate to acute state of need existing in their home countries, and thus their general disadvantage relative to the average citizen in these host nations.

With this in mind, we believe humanitarian concern should help shape mass preferences relating to the amount of legal immigration allowed in the country by the government. Indeed, the determination of the amount of legal immigration is not only one of the most general policies for

¹³ Malka, Soto, Cohen, and Miller 2011.

¹⁴ Feldman and Steenbergen 2001; Feldman and Zaller 1992.

¹⁵ Huddy, Jones, and Chard 2001.

¹⁶ Cornelius and Rosenbaum 2005.

which citizens can clearly assume a permissive to restrictive position, but it is also the most analyzed policy dependent variable in the opinion research on immigration¹⁷. Prior research informs us of the factors stimulating support for restricting our borders; here, we argue that rejecting the restriction of our borders in favor of sustaining or increasing current levels of immigration may reflect the expression of humanitarian motives and concerns. Expressing support for a policy of permitting relatively disadvantaged individuals residing in less well-off countries to enter one's country and potentially prosper constitutes a general position regarding immigration that embodies concern for the welfare of other human beings that are less well-off than oneself and the resulting motive to help those in need. Accordingly, we hypothesize that *individuals higher in humanitarianism should be more permissive with respect to the amount of legal immigrants entering the country and thus less likely to support a policy of restricting our borders (H1)*.

Humanitarian Concern, Threat, and the Information Environment

Moving beyond individual-level differences in humanitarianism, there are forces operating in citizens' environments, such as media messages and information, which presumably have the capacity to generate humanitarian concern pertaining to immigration. For example, media discourse on immigration in the U.S. is replete with messages about the economic, national security, and cultural threats of immigration¹⁸, and research demonstrates that such messages are effective in generating support for restrictive immigration policies¹⁹. However, media messages may also activate humanitarian concern by focusing on the difficult conditions faced by many immigrants in their home countries, such as natural disasters, poverty, crime, political repression and violence, and the general absence of educational and economic opportunities.

¹⁷ e.g., Burns and Gimpel 2000; Brader et al. 2008; Citrin et al. 1997; Hood and Morris 1997.

¹⁸ Chavez 2008; Waldman et al. 2008.

¹⁹ Brader et al. 2008; Sniderman et al. 2004; Stephan et al. 2005.

For example, public debate among nations in the Western Hemisphere over whether to grant temporary residence to tens of thousands of Haitians displaced by the massive earthquake that struck the country in January of 2010 focused heavily on the material devastation and humanitarian disaster caused by the earthquake²⁰. One question of substantive interest emerging from such crises that currently remains empirically unexplored is whether providing information about the trials and tribulations faced by immigrants in their home countries is effective in bolstering support for permissive policies. In theory, such media messages may influence policy preferences by providing information about the deservingness²¹ of immigrants, and by priming²² concern for the welfare of others and activating the associated motive to help those in need. By activating humanitarian considerations for immigrants, media messages should enhance immigration policy permissiveness among the mass public, specifically with respect to levels of support for opening our borders to individuals attempting to flee harsh living conditions. Formally stated, we hypothesize that *messages evoking humanitarian concern—for example, exposure to information about negative conditions faced by immigrants in their home countries—should cause citizens to favor more permissive government policies concerning the amount of legal immigration into the country (H2A)*.

One reality of the political information environment in which citizens are exposed is the presence of countervailing information on any one policy issue. For example, in the welfare policy domain, the widespread diffusion of countervailing values throughout American political culture has resulted in considerable ambivalence among the mass public with respect to the social welfare state²³. When it comes to media discourse on immigration, how will citizens react to a media environment with mixed messages, that is, to information activating both threat and humanitarian considerations? Extant work on media framing suggests a neutralization effect may occur when

²⁰ Dinan 2010; Gentile 2010.

²¹ Peterson, Slothuus, Stubager, and Togeby 2010.

²² Iyengar and Kinder 1987.

²³ Feldman and Zaller 1992.

citizens find themselves in the midst of cross-cutting information regarding specific electoral or policy choices²⁴. Thus, we hypothesize that *information about the negative conditions faced by immigrants in their home countries will counteract, or neutralize, the effect of threatening information (H2B)*.

Empathy and the Effect of Information

One last matter to consider is potential heterogeneity across individuals that could serve to moderate the effects of media messages aimed at generating humanitarian concern for the welfare of immigrants. One individual difference that should be relevant is the degree to which information describing the experiences of others—such as the hardships they face—has an emotional impact on the recipient. Extant research on empathy reveals that individuals differ in their natural capacity to (1) cognitively envision themselves in others' circumstances and (2) experience a vicarious emotional reaction²⁵. In the present case, the effect of a humanitarian inducement—incarnate by information about the trials and tribulations faced by immigrants in their home countries—may be most effective among citizens possessing higher levels of empathy. Citizens higher in empathy should be more likely to generate mental scripts involving themselves in the situations experienced by immigrants, as conveyed by media information, and to feel a negative emotional reaction as a result. Extant research on empathy indicates that one main consequence of possessing a greater capacity to empathize with others is a greater tendency to take action to help those in need²⁶. While the work on empathy has not seen much application to political behavior, one study on the Second Gulf War found that individuals higher in empathy were more supportive of a variety of humanitarian actions intended to enhance the welfare of the Iraqi people²⁷. In view of this work, we hypothesize that *individual differences in empathy should moderate the effect of media information inducing humanitarian concern, such*

²⁴ Chong and Druckman 2007; Sniderman and Theriault 2004.

²⁵ Baron-Cohen 2011; Dymond 1949; Mehrabian and Epstein 1972; Stotland 1969.

²⁶ Batson 1998; Batson, Chang, Orr, and Rowland 2002.

²⁷ Pagano and Huo 2007.

that the effects of this information on policy preferences will be the most operative among citizens highest in empathy (H3).

OVERVIEW OF DATA AND METHODS

To test our hypotheses, we rely upon three datasets. In Study 1, we utilize a nationally representative survey conducted in the U.S. in 1996 to assess the effect of individual differences in humanitarianism on the preferred amount of legal immigration. In Study 2, we assess the robustness of the results from Study 1 by analyzing a nationally representative survey conducted in the U.S. nearly a decade later, in 2005. In Study 3, we embedded an experiment into a 2012 U.S. statewide primary election survey conducted in North Carolina, in which respondents were exposed to one of four fabricated news stories about a federal plan to allow a group of Hondurans to immigrate to the state. The primary manipulation concerned whether respondents viewed a story containing information inducing threat or humanitarian concerns, or both simultaneously. This survey experiment allowed us to assess the causal effects of threat and humanitarian inducements on respondents' policy preferences, as well as analyze whether the effects of such media messages are conditioned by individual-level variation in empathy. Additionally, the control condition of this survey experiment afforded us the opportunity to assess whether the results found for data collected in 1996 (Study 1) and 2005 (Study 2) hold when using data collected in 2012.

STUDY 1: THE 1996 ANES POST-ELECTION SURVEY

To provide an initial test of *H1*, we utilize the American National Election Studies (ANES) 1996 Post-Election Study. This survey, conducted from November through December of 1996, is comprised of 1,534 face-to-face and telephone interviews of adult Americans throughout the contiguous U.S. Of the 1,534 survey respondents, 1,210 identified their race as non-Hispanic, White. In keeping with prior opinion research on immigration aimed at assessing the dynamics of

opinion among the Anglo majority toward immigrant minorities²⁸, the present analysis is restricted to these White respondents²⁹.

To measure humanitarianism, we rely upon a scale constructed from four items included in the 1996 post-election study that originally appeared in the 1995 ANES Pilot Study. This four item scale ($\alpha=.60$), labeled *Humanitarianism*, represents a short-form of the 8 item scale from the 1995 Pilot Study demonstrated to be a valid and reliable measure of individual differences in humanitarianism³⁰. As an example, one of the four items comprising our scale asked respondents to report their level of agreement with the statement: “One should always find ways to help others less fortunate than oneself.” The response options for this and the other items ranged from (1)-“agree strongly” to (5)-“disagree strongly.” Our *Humanitarianism* scale was constructed to range from low to high humanitarianism, and recoded to range from 0 to 1 for ease of interpretation. The mean of the scale was .70, indicating considerable support for humanitarianism—a descriptive result found with other data in past research³¹. For more information about question wording for the items in our scale see Supplemental Appendix A.

The primary policy dependent variable for this analysis, labeled *Amount of Immigration*, is a standard item asking respondents to report their preferred level of immigration permitted into the country. More specifically, respondents were asked: “Should the number of immigrants from foreign countries permitted to come to the U.S. to live be (1) increased a lot, (2) increased a little, (3) left the same as it is now, (4) decreased a little, or (5) decreased a lot?” This item has a mean of 3.8 and standard deviation of .92, indicating a preference among the average white respondent in this survey

²⁸ Brader et al. 2008; Campbell et al. 2006; Citrin et al. 1990; Hood and Morris 1997; Rocha and Espino 2009; Stein et al. 2000; Tolbert and Grummel 2003.

²⁹ In addition to being consistent with prior research, extant research suggests that different theoretical models—than those developed to explain national majority group reactions to immigrant minorities—may be appropriate for explaining the dynamics of opinion on immigration among immigrants and other minority groups (e.g., Hainmueller and Hopkins 2014; Dancygier and Saunder 2006; McClain et al. 2011; Nteta 2013).

³⁰ Steenbergen 1995.

³¹ Feldman and Steenbergen 2001.

for immigration to be decreased. Indeed, while only 4.4 percent of respondents preferred immigration be increased in any way, 58 percent preferred a moderate to severe decrease in the level of immigration into the country. Despite this clear restrictionist leaning among white Americans at the time of data collection, 37.6 percent preferred immigration be kept at its present levels, indicating that, while not supporting immigration by endorsing permissive policy, a large segment of the American public failed to signal any pronounced opposition to immigration.

In addition to this core policy item of interest, the 1996 ANES also contained an item tapping preferences toward government policy and the eligibility of immigrants for government services. Respondents were asked: “Do you think that immigrants who come to the U.S. should be eligible as soon as they come here for government services such as Medicaid, Food Stamps, Welfare, or should they have to be here a year or more?” From this item, we created a dichotomous variable, labeled *Delay Welfare Benefits*, and coded “1” for respondent's preferring the more restrictive position of making immigrants wait one year for benefits and “0” for those preferring to make immigrants immediately eligible for services. This item has been used in prior opinion research on immigration³² and provides an opportunity to assess whether the hypothesized effect of humanitarianism on preferences over the amount of immigrants permitted to enter the country extends beyond the border to a policy aimed at providing support to immigrants once residing within the country.

Our analysis included a variety of relevant control variables. First, we sought to ensure that the observed effect of our measure of humanitarianism was not capturing other potentially related constructs, such as egalitarianism or political ideology. Thus, we included a measure of both in our analysis. *Egalitarianism* was measured using 5 items tapping respondents’ general level of support for the principle of equality, as well as support for active efforts by government to rectify existing social and economic inequalities in society. For example, one of the five items in the scale asked

³² Citrin et al. 1997; Newman, Hartman, and Taber 2012.

respondents their level of agreement with the statement: “Our society should do whatever is necessary to make sure that everyone has an equal opportunity to succeed.” Response options for these items ranged from (1)-“Agree Strongly” to (5)-“Disagree Strongly.” When combined, these items formed a reliable scale ($\alpha=.68$), that was reverse coded to range from low to high levels of egalitarianism. Consistent with prior research³³, this egalitarianism measure is only weakly correlated with humanitarianism ($r=.24$). Thus, we can be reasonably sure that these two items are empirically distinct, and that the inclusion of both in our analysis will enable us to observe the effect of concern for the welfare of others on immigration policy attitudes after controlling for general beliefs about how equitably resources should be distributed in society. Next, we included a control for liberal-conservative ideological self-identification, labeled *Ideology*, by using an item asking respondents to place themselves on an 7 point scale ranging from (1)-“extremely Liberal” to (7)-“extremely Conservative.” The correlation between humanitarianism and ideology is $-.09$, indicating that our measure of concern for the welfare of others is empirically distinct from political ideology. As found in past research³⁴, we find that egalitarianism is negatively correlated with ideology ($r=-.41$), such that liberals are more likely than conservatives to support a more equal distribution of income throughout society.

In addition to these two core controls, we also included standard controls for *Education*, *Gender* (1=male), *Age*, and partisanship, labeled *Party ID* (standard 7-point scale, 7=strong Republican). To control for the potential effects of personal economic concerns on preferences over immigration, we included controls for individual *Income*, *Unemployment* (1=unemployed), and *Pocketbook Evaluations* (high=experiencing financial distress). Beyond these standard controls, two additional individual-level factors of theoretical importance were included in our analysis. Prejudice toward ethnic minorities is a demonstrated predictor of opinion on immigration among citizens

³³ e.g., Feldman and Steenbergen 2001.

³⁴ e.g., Feldman and Steenbergen 2001.

across a range of immigrant-receiving nations³⁵. Given that Hispanic immigrants are the largest, fastest growing, and most politically salient immigrant group in the U.S., our analysis included a continuous measure of general negative affect toward Hispanics, labeled *Hispanic Affect*. This variable was coded to range from low to high negative feelings toward Hispanics. Second, our analysis included a control for the frequency of religious attendance to ensure that our humanitarianism measure is not simply picking up the effects of religiosity. For ease of interpretation, all variables were recoded to range from 0 to 1. For more information about variable measurement and question wording, please see Supplemental Appendix A.

Results

Given the ordinal nature of our primary dependent variable, we used an ordered logistic regression model to estimate the effect of humanitarianism on preferences over the amount of immigration into the U.S. To assess the effect of humanitarianism on preferences over the delay of government benefits to immigrants, we estimated a logistic regression model. The results from these models are presented in Table 1. Beginning with our core model concerning the *Amount of Immigration*, the results reveal, as hypothesized, that an increase in humanitarianism is associated with a significant decrease in support for restricting the amount of legal immigration into the country ($B = -.75, SE = .36, p < .05$). In other words, citizens who are more concerned about the welfare of others—particularly those who are less fortunate than themselves—are significantly more permissive on immigration, as indicated by the decrease in their probability of endorsing a government policy of greatly reducing the amount of immigration. The magnitude of the effect of humanitarianism is provided in the bottom row of Table 1; as listed, moving from minimum to maximum levels of humanitarianism is associated with a .16 decrease in the probability of endorsing the most restrictive

³⁵ Citrin et al. 1997; Huddy and Sears 1995.

policy position with respect to the amount of immigration. Thus, in addition to being statistically significant, the effect of humanitarianism is substantively meaningful.

In addition to reducing opposition to immigration at the border, the results in column 2 of Table 1 reveal that humanitarianism also reduces support for policies aimed at restricting the access of immigrants already residing within the country to vital government services. Indeed, an increase in humanitarianism is associated with a significant decrease ($B=-2.56$, $SE=.70$, $p<.01$) in the probability of favoring a policy of making immigrants wait one year to become eligible to receive government services. In addition to being highly significant, this effect is also substantively comparable in size to its impact on preferences over the amount of immigration, as moving from minimum to maximum levels of humanitarianism is associated with nearly a .15 decrease in the probability of denying immigrants immediate access to government services and welfare.

Turning to the controls in the *Amount of Immigration* model, we find that educated citizens and those scoring higher on egalitarianism were significantly less opposed to immigration, while those very concerned about their personal finances and reporting higher levels of prejudice toward Hispanics³⁶ were more likely to favor a reduction in the amount of immigration into the U.S. Within the *Delay Welfare Benefits* model, the only control to emerge significant was egalitarianism, with those scoring higher in egalitarianism significantly more opposed to denying immigrants immediate access to government services. One issue worth addressing is the possibility that the impact of humanitarianism varies across political orientations and prejudice, such that the effects we observe in Table 1 are attenuated among Republican, conservative, or prejudiced citizens. In estimating auxiliary moderated regression models including interaction terms between humanitarianism and partisanship, ideology, and prejudice, no significant interactions emerged between our measure of

³⁶ Given potential reciprocal causality between immigration policy preferences and prejudice toward Hispanics, we should note that the results for humanitarianism completely hold (in both Study 1 and Study 2) when excluding our measure of prejudice from our models.

humanitarianism and partisanship, ideology, or prejudice toward Hispanics for either dependent variable. That is, our analyses indicate that possessing high levels of concern for the welfare of others translates into heightened permissiveness toward immigrants for Democrats and Republicans, liberals and conservatives, and the prejudiced and unprejudiced alike³⁷.

The results presented above provide initial support for our humanitarianism hypothesis. More specifically, the findings from Study 1 demonstrate that citizens who are more concerned about the welfare of others, holding constant a range of competing factors, are much less likely to oppose immigration and more likely instead to support immigrants by endorsing a policy of keeping the nation's borders open. Additionally, Study 1 demonstrates that the permissive benefit provided to immigrants by humanitarianism extended beyond the border to policy impacting the welfare of immigrants once within the country, as citizens scoring higher in humanitarian concern were more likely to support a policy of making immigrants immediately eligible for receiving needed government services. Given that Study 1 relies upon data collected in 1996, we wanted to assess the robustness of the effect of humanitarianism on immigration policy preferences over time. In the following study, we provide an additional test of our first hypothesis using representative survey data collected in 2005.

STUDY 2: THE 2005 CID SURVEY

To provide a replication test for *H1* using more recent data, we utilize the 2005 Citizenship, Involvement, Democracy Study (CID) conducted by the Center for Democracy and Civil Society at Georgetown University. This survey, fielded between May and July, 2005, is comprised of 1,001 face-to-face interviews of adult Americans throughout the contiguous U.S. The response rate for this survey, based upon a cluster-sample design, is 40 percent. Of the 1,001 survey respondents, 725

³⁷ Given the potential for humanitarianism in serving as a "pre-political" value orientation influencing political orientations, we should note that our results for humanitarianism (across our three studies) completely hold when excluding party identification and ideology, as potentially mediating variables, from our models.

identified their race as non-Hispanic, White. Consistent with Study 1 and prior research, the present analysis is restricted to these White respondents.

To measure humanitarianism, we relied upon a survey item asking respondents to report how important they believed it to be to “support people who are worse off than themselves.” This item strikes at the heart of the theoretical conceptualization of humanitarianism as a pro-social orientation consisting of the belief that one bears a personal responsibility to help others who are in need³⁸. Moreover, this question is comparable to items measuring humanitarianism from the 1995 and 1996 ANES studies. The response options for this item range from (0)-“Extremely Unimportant” to (10)-“Extremely Important.” The mean for this variable, labeled *Humanitarianism*, is 7.2, with a standard deviation of 2.1, indicating considerable importance attributed to humanitarianism in the sample—a descriptive result consistent with that from the 1996 ANES and prior research. For ease of interpretation, *Humanitarianism* was recoded to range from 0 to 1.

Consistent with Study 1, we used respondents’ preferences over the *Amount of Immigration* as the primary policy dependent variable for this analysis. Similar to the item from the 1996 ANES survey, respondents in the 2005 CID were asked: “Should the number of immigrants from foreign countries permitted to come to the U.S. to live be (1) increased a lot, (2) increased a little, (3) left the same as it is now, (4) decreased a little, or (5) decreased a lot?” Two descriptive findings for this item are consistent with the item from the 1996 ANES used in Study 1, and past research more generally³⁹. First, when it comes to the most general issue of how many immigrants should be allowed to enter the U.S., as found in 1996, white Americans in 2005 leaned toward a restrictionist position, as the mean response to the CID question was 3.6 on a scale ranging from 1 to 5. Second, despite this restrictionist leaning, the modal response (34.3 percent) among white respondents was to maintain the amount of immigrants admitted to the U.S. at its current levels. Twenty-eight

³⁸ Feldman and Steenbergen 2001.

³⁹ e.g., Hood and Morris 1997.

percent of Whites in our sample supported the most restrictive position of preferring immigration be “decreased a lot,” while only about 13 percent reported preferring the amount of immigration be either “increased a little” or “increased a lot.”

Our analysis included the same set of controls included in Study 1 with the addition of three theoretically relevant variables not available in the 1996 ANES. First, *Egalitarianism* was measured using respondents’ reported level of agreement with the statement: “The government should take measures to reduce differences in income levels.” Response options ranged from (1)-“Agree Strongly” to (5)-“Disagree Strongly.” For clarity, we reverse coded this item from low to high support for reducing income inequality. This measure of egalitarianism is roughly comparable in question wording to items from the NES used in prior research⁴⁰, and consistent with past research and Study 1, egalitarianism is uncorrelated in the CID survey with humanitarianism ($r=.06$). Next, we control for *Ideology* with an item asking respondents to place themselves on an 11-point scale ranging from (0)-“extremely Liberal” to (10)-“extremely Conservative.” The correlation between humanitarianism and ideology is .01, indicating that, consistent with Study 1, our measure of humanitarianism is empirically distinct from political ideology. As found in Study 1, we find that our measure of egalitarianism in the CID is negatively correlated with ideology ($r=-.19$).

As was done in Study 1, we included standard controls for *Education*, *Gender* (1=male), *Age*, *Party ID* (standard 7-point scale, 7=strong Republican), *Income*, *Unemployment* (1=unemployed), *Pocketbook Evaluations* (high=experiencing financial distress), *Hispanic Affect*, and *Religious Attendance*. Beyond these standard controls, the CID included a measure of the strength of national identity, which has been found to be an important predictor of public opinion on immigration⁴¹. Therefore, our analysis included a measure of the strength of *National Identity*, coded to range from weak to strong attachment to American identity. In addition, research has demonstrated that personality

⁴⁰ e.g., see Feldman 1988, 1999; Feldman and Steenbergen 2001; Kluegal and Smith 1986.

⁴¹ Sides and Citrin 2007; Sniderman et al. 2004.

traits, such as authoritarianism, influences attitudes toward immigration⁴²; given this, we include a control for *Right Wing Authoritarianism*. Last, intergroup contact theory suggests that having friends who are immigrants may reduce threat perceptions and increase support for permissive policy positions. To control for this possibility, our analysis included a dichotomous measure—labeled *Immigrant Friend & Family*—which captures whether respondents report having any close friends who are recent immigrants (1=has immigrant friends/family). For ease of interpretation, all variables were recoded to range from 0 to 1. For more information about variable measurement and question wording, please see Supplemental Appendix B.

Results

The results from an ordered logistic regression analysis of the effect of humanitarianism on preferences over the amount of immigration into the U.S. are presented in Table 2. As hypothesized, and consistent with the results from Study 1, we find that an increase in humanitarianism is associated with a significant decrease in support for restricting the amount of legal immigration into the country ($B = -.67, SE = .33, p < .05$). To be sure, citizens who find it important to support people who are worse off than themselves, compared to those who find it of lesser importance, are significantly less opposed to immigration. The magnitude of the effect of humanitarianism is provided in the bottom row of Table 2, which reveals that moving from minimum to maximum levels of humanitarianism is associated with a .14 decrease in the probability of endorsing the most restrictive policy position with respect to the amount of immigration. Thus, across two national surveys separated by nearly a decade, we find that the effects of humanitarianism are in the hypothesized direction, statistically significant, substantively meaningful, and strikingly comparable in effect size⁴³.

⁴² Hetherington and Weiler 2009.

⁴³ While we are primarily interested in the impact of *Humanitarianism* on preferences over the *Amount of Immigration*, the 2005 CID Survey contains three additional items gauging respondents' perceptions regarding the economic, cultural, and

Turning to the controls, we find that, consistent with prior opinion research, educated citizens are significantly less opposed to immigration, while older adults, ideological conservatives, those very concerned about their personal finances, and those reporting higher levels of authoritarianism and prejudice toward Hispanics, are more likely to favor a reduction in the amount of immigration into the country. Additionally, consistent with null results found with the 1996 ANES, in estimating auxiliary moderated regression models, we found no significant interactions between our measure of humanitarianism and partisanship, ideology, or prejudice toward Hispanics. Thus, as was the case with the 1996 ANES data, our auxiliary analyses using the CID data indicate that possessing high levels of humanitarian concern for others translates into heightened permissiveness toward immigration among Democrats and Republicans, liberals and conservatives, and the prejudiced and unprejudiced alike. Further, given the presence of a measure of the strength of national identity, we sought to ascertain whether national attachment moderates the impact of humanitarianism, such that those scoring higher in attachment may be less inclined to extend humanitarian concern toward outgroup members, such as immigrants. Despite the theoretical plausibility of this possibility, we did not find a significant interaction between humanitarianism and national identity.

The results presented thus far provide strong support for our humanitarianism hypothesis. In the study that follows, we seek to replicate these findings using original survey data collected in 2012 from respondents living in North Carolina, a state in the U.S. that has seen large influxes of Hispanic immigrants over the past decade. We also embedded an original experiment within the survey which enabled us to test our remaining hypotheses concerning the effects of media messages

public safety impacts of immigration into the nation. In estimating three additional regression models, we found that an increase in humanitarianism was associated with significant decreases in perceived economic, cultural, and crime threats related to immigration. For readers interested in viewing these results, see Supplemental Appendix C.

inducing threat and humanitarian concern on policy preferences, as well as the role of empathy in moderating the impact of such inducements.

STUDY 3: THE 2012 NORTH CAROLINA PRIMARY ELECTION SURVEY EXPERIMENT

We fielded our survey experiment roughly two weeks prior to the 2012 North Carolina Primary Election.⁴⁴ To obscure the true nature of our study, respondents first answered a set of general questions about state politics such as their evaluations of the governor and state legislature, trust in state government, and attitudes toward local political issues. Next, respondents completed a series of items measuring three psychological constructs of interest, namely humanitarianism, empathy, and egalitarianism. Following these items, subjects were then randomly assigned to one of four experimental treatment conditions that involved reading a fabricated press release about a federal program to allow a group of Hondurans to immigrate to North Carolina. After exposure to the primary manipulation, respondents completed a post-treatment questionnaire measuring their attitudes toward various immigration policies, as well as some basic demographics.

In terms of demographics, our North Carolina sample of 983 adults is relatively diverse.⁴⁵ For example, respondents' ages ranged from 18 to 85 years old (median age = 40 years old), and they reported living in 85 of the 100 counties within the state. Moreover, 34% of respondents identified themselves as Republicans, 37% as Independents, and 29% as Democrats. Ideologically, the sample consisted of 36% conservatives, 42% moderates, and 23% liberals. The median household income range of the sample is \$50,000 to \$75,000, with 39% of respondents indicating

⁴⁴ Data were collected from April 27th to May 3rd, 2012, immediately before the NC Primary Election was held on May 8th, 2012. Respondents were recruited on the Internet by uSamp, a global provider of online market research panels. Recruiting from thousands of partners worldwide, uSamp boasts a panel of more than 9 million highly diverse respondents worldwide, with an average of more than 200,000 unique visitors to their consumer websites every day. Panelists are offered their choice of monetary incentives for their participation such as cash, gift cards, virtual currency, or charitable contributions.

⁴⁵ To ensure the quality of our data, we embedded a quality control question in the psychological item batteries to filter out bad data. Of the original 1,069 respondents that completed our online survey, 86 individuals (8% of the sample) did not answer the quality control question correctly, so they were dropped from further analyses.

that they had earned a 4-year college degree. The only apparent anomaly with our uSamp data is that the sample is skewed heavily toward female respondents (79%), which is likely a function of the websites from which uSamp recruits panelists. Eighty-six percent of the sample identified their race as non-Hispanic, White, and we will focus on this subsample for the remaining analyses.

Replication of Studies 1 and 2

To replicate our findings from Studies 1 and 2, we analyzed the effects of individual differences in humanitarianism on immigration policy preferences for the 196 white respondents in the control condition of our survey experiment.⁴⁶ We measured individual differences in humanitarianism using the 8-item scale from the 1995 ANES pilot study and also used by Feldman and Steenbergen (2001). From these items, we generated a scale, labeled *Humanitarianism* ($\alpha=.80$), coded so that high values reflect greater levels of this trait. For more information about these 8 items, see Supplemental Appendix D.

Our primary dependent variable in the NC statewide survey is the standard *Amount of Immigration* item, which is coded so that the highest category indicates a preference for a reduction in the level of immigration. In addition to soliciting preferences on this item in order to conduct a replication test of the results from the 1996 ANES and 2005 CID, we asked respondents to report their preferences on two additional immigration policy issues. The first of these items, labeled *Delay Welfare Benefits*, parallels the item from Study 1 and gauges whether legal immigrants should be immediately eligible for statewide government services and programs or should have to wait 1 year or more. We coded this three-category ordinal item so that the highest value (3= “wait more than 1 year”) indicates a preference for greatly delaying (i.e., restricting) the access of legal immigrants to government services. The second policy item asks respondents whether they favor or oppose

⁴⁶ We chose to use respondents in the control condition of our survey experiment because these respondents essentially comprise a sub-sample of observational data and were not subjected to messages inducing threat or humanitarian concern. Thus, the use of those in the control condition enables us to perform an analysis of the effects of individual differences in humanitarianism on policy preferences devoid of any influence of exposure to different stimulus materials.

allowing the children of undocumented immigrants to attend public schools. This item, labeled *Attend Public Schools*, has 5 ordered response categories, ranging from (1)-“Strongly Support” to (5)-“Strongly Oppose.” In sum, our survey contained three unique immigration policy items, and each was coded so that higher values indicate a preference for restrictive policy.

To analyze the effect of humanitarianism on preferences across these three items, we estimated ordered logistic regression models. All models included controls for *Egalitarianism*, *Education*, *Income*, *Age*, *Gender* (1=male), *Ideology* (1=very conservative), and *Party ID* (1=strong Republican). For ease of interpretation, all independent variables—except age—were recoded to range from 0 to 1. For more information about variable measurement and question wording, please see Supplemental Appendix D. The results from these analyses are presented in Table 3. The first row of the table lists the effects of humanitarianism on each policy, and the bottom row lists the magnitude of the effect of humanitarianism on each policy in the form of the change in the probability of favoring the most restrictive position on each policy associated with a 1 unit change (i.e., moving from low to high levels) in humanitarianism.

First and foremost, the results in column 1 of Table 3 corroborate the results from the ANES and CID surveys by revealing that an increase in humanitarianism is associated with a significant decrease in the probability of preferring to limit the number of legal immigrants allowed to enter the U.S. However, compared to Studies 1 and 2, the effect size of humanitarianism is substantially larger, as moving from minimum to maximum levels of humanitarianism is associated with a .47 decrease in the probability of favoring a reduction in immigration. Thus, across three separate datasets spanning across 16 years, we find consistent support for our first hypothesis that individuals who are higher in humanitarianism will be less opposed to immigration and more supportive of retaining an open border. Further, in each of the three studies, particularly Study 3, we find that these effects are substantively meaningful.

The results in columns 2 and 3 of Table 3 present the effects of humanitarianism on the two additional policy items. The results reveal that the permissive benefit provided by humanitarianism with respect to a policy concerning the entry of immigrants into the country extends to policies concerning the availability of government services to immigrants once residing within the country. Consistent with the finding from Study 1, the results in column 2 indicate that humanitarians are more likely to oppose making legal immigrants wait over a year to receive government services; instead, those high in humanitarianism are more likely to endorse more immediate eligibility for such services. In column 3, we see that those high in humanitarianism are also more likely to oppose a policy of barring the children of illegal immigrants from attending public schools. Further, the results in the bottom row of the table reveal that the magnitudes of these effects are quite large. Thus, when it comes to entry into the U.S. and access to government services, humanitarianism clearly provides a permissive benefit. Interestingly, the largest effect of humanitarianism pertains to arguably one of the most vulnerable segments of the immigration population—the children of illegal immigrants. When it comes to providing support to these children by allowing them access to public schools, humanitarianism drastically increases permissiveness.

Results from the Survey-Embedded Experiment

Having replicated the results from Studies 1 and 2, we now turn to our survey-embedded experiment, in which respondents were randomly assigned to one of four experimental conditions (information environment: control, threat, humanitarianism, and combined). All subjects were presented with a fabricated press release informing them that the “U.S. Immigration and Customs Enforcement Office has drafted a plan to begin allowing hundreds of Hondurans to immigrate to North Carolina” (for the exact wording of all stimulus materials, see Supplemental Appendix E). The four experimental conditions vary by the information that was presented following this information. In the threat condition, subjects read about a non-partisan report indicating that these

new immigrants will “require a wide range of tax-payer funded state services,” likely “increase competition for jobs,” “have limited English-language ability,” and that “take some time to fully assimilate into the U.S.” Our threat manipulation was designed to tap two distinct dimensions of immigration-related threat, namely realistic threats to the material well-being of the group⁴⁷ and symbolic threats to citizens’ values, norms, and cultural identity⁴⁸. Discussion of these types of threat pervade media discourse on immigration⁴⁹, and reliance upon this type of information to experimentally induce threat over immigration has been demonstrated to be effective in prior research⁵⁰. By contrast, subjects assigned to the humanitarianism condition read that the purpose of the immigration plan was to help these Hondurans escape “harsh and unsafe conditions in their home country” such as “poverty,” “limited access to employment,” and “government repression.” To be clear, our intention in this condition was to highlight the structural forces “threaten[ing] the lives of many Hondurans.” In the combined condition, we included both of the threat and humanitarianism scripts, which serve to simulate a mixed message media environment. Finally, the control condition contained a relatively antiseptic description of Honduras’ climate, terrain, and natural resources.

Following exposure to these stories, all respondents proceeded to complete the post-treatment questionnaire. In addition to filtering out respondents with a quality control item, we filtered the data from the survey experiment based upon respondents’ recorded reading times in each condition. Using estimates based upon average reading rates, and what we believe to be reasonable reading times for each condition, we opted to filter 220 respondents or (21% of the

⁴⁷ e.g., see Espenshade and Calhoun, 1993; Passel and Fix, 1994.

⁴⁸ Sniderman, Hagendoorn, and Prior, 2004.

⁴⁹ Chavez 2008; Waldman et al. 2008.

⁵⁰ Brader, Valentino, and Suhay 2008.

sample) from the data.⁵¹ This filtering procedure ensures that we removed respondents who most likely did not read the assigned news passage, and thus did not receive the respective experimental treatment. The remaining sample used to evaluate the effects of our treatments contained 726 respondents, of which we restrict our analyses to the 618 non-Hispanic Whites.

To assess the effects of our experimental treatments on respondents' immigration policy preferences, we created three dichotomous treatment dummy variables to correspond to being in either the threat, humanitarian, or combined condition, with the control condition serving as the baseline category of comparison. To test our hypotheses concerning the effects of media information on citizens' immigration policy attitudes, we focus on respondents' preferences for the *Amount of Immigration*, whose question wording and coding is described in the prior section. To test **H3** pertaining to the potential role of individual differences in empathy in moderating the effect of our humanitarian treatment on policy preferences, we relied upon 5 items taken from the short-form of the empathy quotient⁵². From these five items, we generated an *Empathy* scale ($\alpha=.72$), recoded from 0 to 1 and ranging from low to high levels of empathy.

Figure 1 (see also Table F1 in Supplemental Appendix F) displays the results from an ordered logistic regression of subjects' preferences for the amount of immigration by experimental treatment condition. The results reveal that survey respondents who were exposed to threatening media messages about the material and cultural consequences of allowing Hondurans to immigrate

⁵¹ Research on adult reading rates suggests that the average person can read approximately 200 to 250 words per minute (Taylor, 1965). Using these speeds as a baseline, we estimated that "slow" readers would be able to read at least 100 words per minute (or half of the 200-word average), while "fast" readers would be able to read no more than 500 words per minute (or double the 250-word average). We acknowledge that these figures are somewhat arbitrary cutoffs; yet, we felt that the benefits of removing non-attendant subjects outweighed the exclusion of a few exceptionally fast or slow readers from our analyses. Thus, based upon the word length of each experimental condition, our cutoffs were as follows: 1) Threat (136 words): 16 to 82 seconds; 2) Humanitarianism (151 words): 18 to 91 seconds; 3) Combined: 28 to 151 seconds; and 4) Control: 10 to 54 seconds. One way to check whether these estimates are accurate is to compare the expected with the observed (median) reading rates for each condition (using 250 words per minute as the baseline): 1) Threat: 33 vs. 35 seconds; 2) Humanitarianism: 36 vs. 35 seconds; 3) Combined: 56 vs. 54 seconds; and 4) Control: 22 vs. 29 seconds. By all accounts, our estimates seem very close to the actual median reading rates in the data.

⁵² Baron-Cohen and Wheelwright 2004; Wakabayashi et al. 2006.

to North Carolina were significantly more likely to prefer a reduction in the amount of immigration ($B=.35, SE=.23, p<.10$) than those in the control condition. This finding is entirely in keeping with prior research in the opinion literature on immigration, where induced economic and cultural threats were found to generate opposition to immigration⁵³. Consistent with **H2A**, the results also reveal that subjects receiving the humanitarian treatment, compared to those in the control, were significantly less likely to support a restrictive policy of reducing the amount of immigration ($B= -.48, SE=.22, p<.05$). And last, the results reveal that subjects receiving both treatments were also significantly less likely ($B= -.39, SE=.22, p<.05$) than those in the control to prefer restricting the amount of immigration. This last finding is particularly interesting given that we expected a neutralization effect (i.e., **H2B**), as prior research suggested that countervailing information tends to cancel each other out. Rather, we find that receiving information about the hardships faced by immigrants actually increased permissiveness *even in the presence of threatening media information about immigrants*.

One thing to note from the figure is that the effect of our humanitarian treatment, directionality aside, is roughly 20 percent larger than that of our threat treatment. Given this, it makes some sense that receiving both messages in the combined condition would still lead to an overall reduction in restrictiveness. Yet, these differences in effect sizes beg the question: Are the differences in effects we observe due to humanitarianism being a stronger force in shaping opinion than threat, or because our threat manipulation was weak in stimulus design relative to our humanitarianism inducement, thus rendering our results an artifact of experimental design? To be sure, we view our threat treatment as a strong manipulation in that it was based upon, and is entirely comparable to, proven stimulus materials used in other immigration research⁵⁴. No obvious disparities stand out between our two treatments in terms of script length, as the two scripts are

⁵³ Brader et al. 2008; Sniderman et al. 2004; Stephan et al. 2005.

⁵⁴ e.g., Brader et al. 2008; Stephan et al. 2005.

roughly equal in this regard. In short, we view our two treatments as roughly equal in strength and suspect that induced humanitarian concern may have produced larger effects due to the presence of a “ceiling effect”⁵⁵ for threat induction. Given the pervasiveness of threatening messages in media discourse about immigration, the public may already have these considerations present when thinking about their policy preferences. In contrast, humanitarian-oriented information is much less ubiquitous relative to threat; thus, our manipulation of humanitarian concerns may be more likely to activate new considerations not already present by default.

So far, the results from our survey experiment reveal that media messages inducing humanitarian concern for immigrants, by conveying information about the hardships they face in their home countries, can increase permissiveness for policies about the amount of immigration, and that this effect, though slightly weakened, holds in the presence of information intended to activate economic and cultural threat from immigrants. Now, we consider the question of whether these types of messages about immigration resonate with citizens’ differently depending upon their ability to empathize with others. To assess whether individual differences in empathy moderates the effect of our experimental treatments, we interacted our treatment dummies with empathy and regressed preferences for the amount of immigration on the treatment dummies, empathy, and multiplicative terms. The results from this moderated regression analysis are presented in Figure 2 (and Table F2 in Supplemental Appendix F).

Consistent with **H3**, the results reveal that the decrease in support for restricting the amount of immigration into the U.S. for those in the humanitarian condition only occurred among respondents high in empathy. When empathy is at its minimum value, subjects receiving the humanitarian treatment did not significantly differ from those in the control condition in their preference for restricting immigration. However, the marginally significant coefficient for the

⁵⁵ Lipsey 1990.

interaction term ($B = -2.03$, $SE = 1.55$, $p < .10$), and the marginal effects plotted in Figure 2, indicate that the effect of receiving the humanitarian treatment significantly changes when moving from minimum to maximum levels of empathy, such that receiving the humanitarian treatment among those highest in empathy substantially decreases support for restrictive policy. In essence, this interaction confirms the theoretical intuition that providing information about the tribulations of immigrants would generate humanitarian concern, and consequently, policy permissiveness, only among citizens most able to empathize with the plight of others. In addition to supporting our hypothesis, this effect also provides some *ex post facto* validation of our humanitarian treatment. Presumably, the main effect of our humanitarian treatment is due to the activation of concern for others; these interactive results support this presumption by revealing that this treatment was effective only among individuals more likely empathizing with, and thus feeling concern for, the immigrants in the story⁵⁶.

While this effect is in line with theoretical expectations, our analysis uncovered a significant interaction between the threat treatment and empathy ($B = 3.39$, $SE = 1.59$, $p < .05$), depicted in Figure 2, that was not theoretically anticipated. Interestingly, the results for this interaction indicate that our threat induction was most effective in augmenting opposition to immigration among those lowest in empathy. Then, we find a significant reversal in the marginal effect, where the provision of information intended to induce a sense of economic and cultural threat about immigration actually *reduced* opposition to immigration among those highest in empathy. At present, we can only speculate as to the process underlying this finding, but one distinct possibility is that the effect is being partly driven by an association between empathy and political orientations, such as

⁵⁶ We should note that the significance of the interactions between our experimental treatment variables and empathy hold when re-estimated breaking the empathy scale into dummy variables for respondents in each quartile of the scale and interacting the treatment variables with each category dummy variable. That is, we find negative and significant interactions between the threat treatment and each successive empathy dummy—indicating a decreasing marginal effect of —and a negative and

partisanship. Within our sample of white respondents, however, empathy and partisanship are only weakly correlated ($r = -.19$), with those highest in empathy manifesting a slight leaning toward being a Democrat. Despite having the benefit of random assignment to control for differences in partisanship across experimental groups, we re-ran the model interacting the treatments with empathy and included partisanship as a blocking factor. The results from this model revealed that the interaction between threat and empathy remained intact, suggesting that the observed effect is not simply due to empathy capturing the effects of partisanship. One remaining possibility, then, is that those high in empathy may react negatively to attempts to vilify others, specifically underprivileged or vulnerable groups, such as immigrants. One last point to note is that, similar to Studies 1 and 2 where individual differences in humanitarian did not influence policy attitudes differently for Democrats and Republicans, here, in running a moderated regression model where we interacted our treatment dummies with partisanship rather than empathy, we find that the effect of our humanitarian inducement *did not* vary across Democrats and Republicans.

CONCLUSION

To date, scholars examining the determinants of immigration attitudes have focused exclusively on the negative—how factors such as threats, prejudice, and authoritarianism predict anti-immigrant sentiment. While undoubtedly crucial to our understanding of public opinion on immigration, this one-sided approach ignores the other half of the political debate, which centers on humanitarian concern for the plight of immigrants in their home countries. Analyzing three distinct datasets, we address this void in the literature by demonstrating that concern for the welfare of one's fellow human beings is a strong predictor of white Americans' immigration policy preferences. In Studies 1 through 3, we revealed that humanitarianism significantly increases opposition to policies aimed at reducing the amount of immigration, even after controlling for important variables such as partisanship, ideology, egalitarianism, prejudice, and a number of other demographic and

experiential factors. Additionally, in Studies 1 and 3, we extended these core findings by showing that humanitarianism provides a permissive benefit when it comes to policies concerning the provision of government services to immigrants, and that this effect is especially pronounced for allowing the children of illegal immigrants to attend public schools.

Another novel contribution of our research is that we examined how different media environments, which were specifically designed to mimic the dominant arguments from pro- and anti-immigration groups, affect immigration attitudes. Utilizing a survey-embedded experiment, we showed that if the media were to highlight the plight of prospective immigrants, the “heavy hand” typically dealt immigrants by the public in many immigrant-receiving nations may be eased in favor of support for more permissive policies. Most interestingly, our research suggests that humanitarian appeals have the potential to mitigate opposition to immigration, even in the presence of countervailing threats. Last, our research highlights the relevance of empathy as a trait of central importance in shaping public reactions to immigration debates, as it was shown to enhance the effect of humanitarian information and undermine the effect of typical threat-based appeals. The strong moderating effect of empathy in the experiment highlights that we are truly dealing with a humanitarian response to immigrants not just a positive framing effect.

One limitation of our research is that our results are based upon data solely from the U.S. While not necessarily representative of other immigrant-receiving nations, the U.S. is an attractive location to study the dynamics of opinion on immigration given the drastic and persistent influx of immigrants from Latin America into the country over the past few decades. Indeed, future research could work to replicate the results from our studies using data from other high-profile immigrant-receiving nations. Scholars could also extend our research by exploring additional bases for inducing humanitarian concern for immigrants, such as the difficulties they face living and working within their host countries. Last, future research could explore whether boundaries exist for the effect of

humanitarianism on opinion on immigration. Prior work finds that the impact of humanitarian concern on support for welfare programs has defined limits⁵⁷, and that support for values in the abstract does not always translate to support for specific policies aimed at actualizing such values⁵⁸. While this article demonstrates that humanitarian concern leads to support for immigrants, our analyses mostly focus on border permissiveness and policies concerning legal immigrants and children. One possible direction for future research could be to determine whether the permissive benefits of humanitarianism observed in this article extend to policies concerning undocumented workers, such as deportation and amnesty.

⁵⁷ Feldman and Steenbergen 2001.

⁵⁸ e.g., McClosky and Zaller 1984.

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**Table 1. Humanitarianism and Immigration Policy Preferences
(1996 ANES Post-Election Study)**

	<i>Amount of Immigration</i>	<i>Delay Welfare Benefits</i>
Humanitarianism	-.750* (.363)	-2.56*** (.702)
Education	-1.33*** (.233)	-.636 (.425)
Income	.247 (.235)	.348 (.432)
Age	.001 (.003)	.004 (.006)
Gender	-.142 (.119)	-.086 (.215)
Unemployed	-.283 (.334)	-.807 (.515)
Pocketbook Evaluations	.723** (.258)	.355 (.440)
Ideology	.297 (.338)	.522 (.621)
Party ID	-.231 (.194)	.569 (.368)
Egalitarianism	-1.42*** (.321)	-2.42*** (.590)
Hispanic Affect	1.16*** (.329)	.691 (.567)
Religious Attendance	-.134 (.149)	-.043 (.273)
Constant		4.54 (.886)
<i>Thresholds</i>		
Cut 1	-5.86 (.536)	
Cut 2	-4.49 (.484)	
Cut 3	-1.57 (.461)	
Cut 4	-1.179 (.458)	
N	1,207	1,207
<i>Effect Size</i>		
Δ Pr (Y=Max Value) due to Δ Humanitarianism	-.156	-.149

Notes: Entries are unstandardized coefficients from an ordered logistic regression. Reported effect sizes are based upon post-estimation analysis of predicted probabilities using CLARIFY (King, Tomz, and Wittenberg 2000) in Stata®. Reported effects represent the change in the probability of selecting the highest category of each dependent variable associated with moving from 0 to 1 on the recoded Humanitarianism Scale. *p<.05, **p<.01, ***p<.001. Significant tests based upon two-tailed hypothesis tests.

Table 2. Humanitarianism and Support for Restricting the Amount of Immigration (2005 CID Survey)

	<i>B</i>	<i>(SE)</i>
Humanitarianism	-.669*	(.333)
Education	-.798**	(.298)
Income	.312	(.358)
Age	.620*	(.311)
Gender	-.185	(.144)
Unemployed	-.414	(.294)
Pocketbook Evaluations	1.07***	(.305)
Ideology	1.28***	(.370)
Party ID	.046	(.232)
Egalitarianism	.226	(.241)
National Identity	.304	(.462)
Hispanic Affect	1.54***	(.394)
Right-Wing Authoritarianism	1.73***	(.392)
Immigrant Friends & Family	.296	(.228)
Religious Attendance	.058	(.275)
<i>Thresholds</i>		
Cut 1	-.882	(.629)
Cut 2	.421	(.614)
Cut 3	2.47	(.620)
Cut 4	3.68	(.627)
N		721
<i>Effect Size</i>		
Δ Pr (Y=“decreased a lot”) due to Δ Humanitarianism		-.142

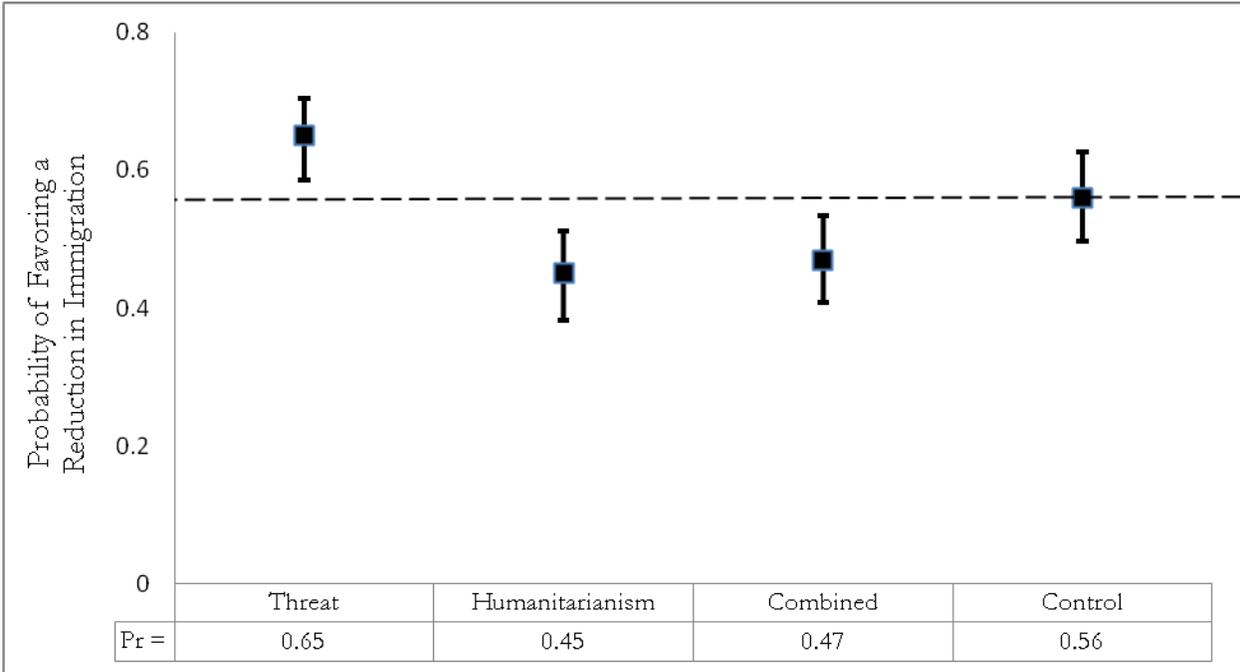
Notes: Entries are unstandardized coefficients from an ordered logistic regression. The dependent variable is *Amount of Immigration*, coded so that highest category indicates support for decreasing the amount of immigration into the U.S. Reported effect sizes are based upon post-estimation analysis of predicted probabilities using CLARIFY (King, Tomz, and Wittenberg 2000) in Stata®. Reported effect represents the change in the probability of preferring the amount of immigration be “decreased a lot” associated with a 0 to 1 change in Humanitarianism. *p<.05, **p<.01, ***p<.001. Significant tests based upon two-tailed hypothesis tests.

**Table 3. Humanitarianism and Immigration Policy Preferences
(2012 NC Primary Election Statewide Survey)**

	<i>Amount of Immigration</i>	<i>Delay Welfare Benefits</i>	<i>Attend Public Schools</i>
Humanitarianism	-2.31* (.975)	-2.77** (.965)	-4.41*** (.892)
Education	-.351 (.599)	-1.65** (.585)	-.516 (.535)
Income	.033 (.679)	.883 (.673)	-.322 (.590)
Age	.016 (.011)	.018† (.010)	.023* (.010)
Gender	-1.11** (.355)	.056 (.343)	.060 (.318)
Ideology	1.13 (.890)	.084 (.864)	1.33† (.820)
Party ID	1.28 (.832)	2.18** (.815)	1.01 (.775)
Egalitarianism	1.31 (.858)	1.39† (.831)	-.227 (.798)
Constant			
<i>Thresholds</i>			
Cut 1	.212 (1.26)	-1.51 (1.16)	-3.48 (1.15)
Cut 2	2.70 (1.27)	.184 (1.16)	-1.99 (1.14)
Cut 3			-.554 (1.13)
Cut 4			.942 (1.13)
N	194	195	195
<i>Effect Size</i>			
Δ Pr (Y=Max Value) due to Δ Humanitarianism	-.473	-.576	-.629

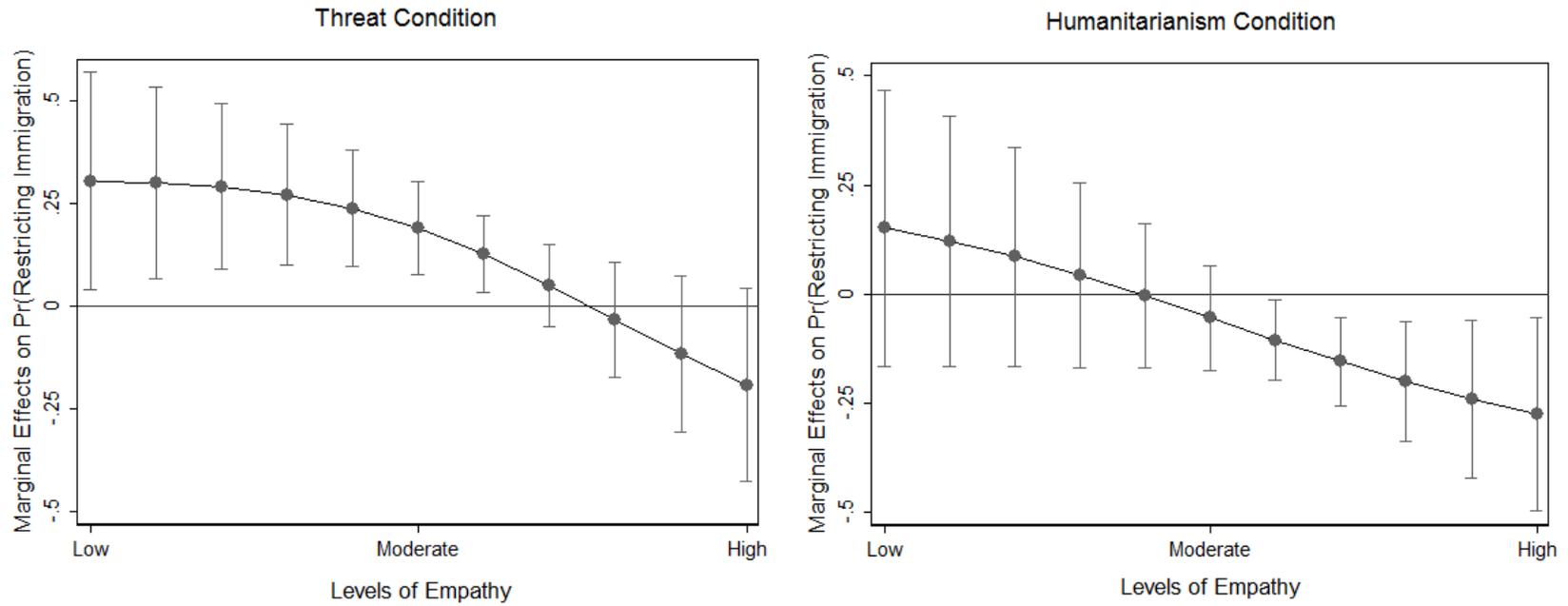
Notes: Entries are unstandardized coefficients from logistic and ordered logistic regressions. Results based upon 196 non-Hispanic white survey respondents in the control condition of the survey experiment that answered the quality control question correctly. Reported effect sizes are based upon post-estimation analysis of predicted probabilities using CLARIFY (King, Tomz, and Wittenberg 2000) in Stata®. Reported effects represent the change in the probability of selecting the highest category of each dependent variable associated with moving from 0 to 1 on the recoded Humanitarianism Scale. †p<.10 *p<.05, **p<.01, p<.001. Significance tests based upon two-tailed hypothesis tests.

Figure 1. Support for Restrictive Immigration Policy by Experimental Condition



Notes: Plotted effects are based upon post-estimation analysis of predicted probabilities with 90% confidence intervals using CLARIFY (King, Tomz, and Wittenberg 2000) in Stata®. *N* = 616.

Figure 2. Marginal Effects of Experimental Treatments on Immigration Policy Preferences across Levels of Empathy



Notes: Plotted estimates (with 90% confidence intervals) reflect the conditional marginal effects (of moving from the control to the treatment condition) on the probability of favoring a reduction in the amount of immigration into the U.S. $N = 615$.

SUPPLEMENTAL APPENDIX A¹

Question Wording from 1996 ANES Post-Election Study

Note: Labels in parentheses are the label of each variable as appears in the ANES survey.

Humanitarianism

This measure is comprised of the following four items. Respondents were asked to report their level of agreement with each statement, with the response options ranging from: (1) “Agree Strongly” (2) “Agree Somewhat” (3) “Neither Agree or Disagree” (4) “Disagree Somewhat” (5) “Disagree Strongly.” These items were combined into a scale, with an $\alpha=.6008$, and coded to range from low to high levels of humanitarianism.

1. “One should always find ways to help others less fortunate than oneself” (V961235).
2. “A person should always be concerned about the well-being of others” (V961236).
3. “It is best not to get too involved in taking care of other people's needs” (V961237).
4. “People tend to pay more attention to the well-being of others than they should” (V961238).

Egalitarianism

This measure is comprised of the following five items. Respondents were asked to report their level of agreement with each statement, with the response options ranging from: (1) “Agree Strongly” (2) “Agree Somewhat” (3) “Neither Agree or Disagree” (4) “Disagree Somewhat” (5) “Disagree Strongly.” These items were combined into a scale, with $\alpha=.6774$, and coded to range from low to high levels of egalitarianism.

1. “Our society should do whatever is necessary to make sure that everyone has an equal opportunity to succeed” (V961229).
2. “We have gone too far in pushing equal rights in this country” (V961230).
3. “One of the big problems in this country is that we don't give everyone an equal chance” (V961231)
4. “This country would be better off if we worried less about how equal people are” (V961232).
5. “If people were treated more equally in this country we would have many fewer problems” (V961233).

Education

Respondents were asked to list the highest grade in school or year of college completed (V960610). Item has 8 response options, ranging from (1)-“8 grades or less, or no diploma” to (7)-“advanced degree.”

Income

Respondents were asked to report their own personal income, excluding any income received by a spouse or other family members (V960702). The response options for this item range from (1)-“None, or less than \$2,999” to (24)-“\$105,000 or more.”

Age

¹ To be published online in the event of publication

Respondents were asked to report the month, day, and year of their birth (V960605). This item was used to calculate respondents' age.

Gender

A dichotomous item for which female respondents served as the baseline category.

Unemployed

A dichotomous item coded “1” if respondents reported being laid-off or temporarily unemployed, and “0” otherwise (V960616).

Pocketbook Evaluations

Respondents were asked: “What do you think of your personal financial situation these days?” Response options for this item ranged from (1)-“very good” to (5)-“very bad”.

Ideology

Respondents were asked to locate themselves on a 7 point liberal-conservative scale, ranging from (1)-“Extremely liberal” to (7)-“Extremely conservative” (V960365).

Party ID

Standard 7-point party identification scale, ranging from (1)-“Strong Democrat” to (4)-“Independent” to (7)-“Strong Republican” (V960420).

Hispanic Affect

Respondents were presented with the following item: “I'd like you to rate [Hispanics] using something we call the feeling thermometer. Ratings between 50 degrees and 100 degrees mean that you feel favorable and warm toward [Hispanics]. Ratings between 0 degrees and 50 degrees mean that you don't feel favorable toward [Hispanics] and that you don't care too much for [Hispanics]. You would rate [Hispanics] at the 50 degree mark if you don't feel particular warm or cold toward [Hispanics]” (V961037). From this item, we created a variable that was reverse coded to range from positive to negative feelings toward Hispanics.

Religious Attendance

Respondents were asked to report how often they attend religious services, ranging from (1)-“Every week” to (5)-“Never”(V960578). This item was reverse coded to range from low to high religious attendance.

SUPPLEMENTAL APPENDIX B
Question Wording from 2005 Citizenship, Involvement, Democracy Survey

Note: Labels in parentheses are the name of each variable as appears in the CID survey.

Education

Respondents were asked to list the highest grade in school or year of college completed (EDUC). Item has 8 response options, ranging from (1)-“None, or grade 1-8” to (8)-“Post-graduate training/professional schooling after college.”

Income

The measure of respondent income was based upon a corrected and adjusted constructed income scale contained in the CID (INCOME) measuring respondents’ total annual net household income. This ordinal item has 11 categories, ranging from (1)-“Less than \$15,000” to (11)-“\$200,000 or more.”

Age

Respondents were asked how old they were (AGE). Mean age was 45. When recoded to range from 0 to 1, mean age is .37.

Employment Status

This is a dichotomous item, with unemployed respondents coded “1” and all others coded “0”. Respondents classified as unemployed were those who reported being “unemployed and actively looking for a job” and/or “unemployed, wanting a job but not actively looking for a job.” Based on items (UEMPLA) and (UEMPLI).

Pocketbook Economic Evaluations

Respondents were asked to select among provided statements which come closest to how they feel about their household’s income at the time of interview (HINCFEL). This ordinal item has 4 response options, ranging from (1)-“Living comfortably on present income” (2)-“Coping on present income” (3)-“Finding it difficult on present income” (4)-“Finding it very difficult on present income”.

Party Identification

Standard 7 point scale pre-constructed by CID (PARTYID). This variable was recoded to range from “Strong Democrat” to “Strong Republican.”

Ideology

Respondents were presented with the following question (LRSCALE): “We hear a lot of talk these days about liberals and conservatives. Where do you fall?” Respondents were given 11 response options, ranging from (0)-“liberal” to (10)-“conservative”.

Hispanic Affect

Using a scale of “liking and disliking,” respondents were asked to state how they felt about “Hispanic people” (AHISP). This item has 11 ordered response options, ranging from (1)-“Dislike a

Great Deal” (4)-“Dislike” (6)-“Uncertain” (8)-“Like” (11)-“Like a Great Deal.” This item was recoded to range from “Like a Great Deal” to “Dislike a Great Deal.”

National Identity

Pre-constructed scale in CID (NATPRIDE). Based on an item asking respondents how proud it makes them to be called an American (NATIO1), and an item asking soliciting agreement or disagreement with the statement, “Being an American is a very important part of how I see myself” (NATIO2). The constructed scale is coded to range from low to high strength of national identity.

Right Wing Authoritarianism

This scale was created from a set of survey items closely approximating standard measures of right wing authoritarianism. A summative scale was created from the following items in the survey: (ORDER1), (ORDER2), (ORDER3), (CHILDA2), (CHILDA3), (AUTHOR3), (AUTHOR4), (DOG1), (DOG2), (DOG3), (DOG4), and (DOG5). The Cronback’s alpha for this scale=.775.

Immigrant Friends & Family

Respondents were asked whether or not they had any close friends who are “Recent immigrants to the United States: those who have been in the country for less than 5 years” (CLOCHAR7). This item is dichotomous, and was recoded so that (1)-“Yes” and (0)-“No.”

Religious Attendance

Respondents were asked: "Apart from special occasions such as weddings or funerals, about how often to you attend religious services nowadays?" (RLGATND). This item has 7 ordered response options, ranging from (1)-"every day" to (7)-"never." We recoded this item to range from low to high religious attendance.

Economic Threat

Respondents were asked to report their level of agreement with the statement: "Most people who come to live in the U.S. work, pay taxes, and use health and social services. Do you think people who come here take out more than they put in or put in more than they take out?" (IMBLECO). Response options ranged from (0)-"Generally take out more" to (10)-"Generally put in more." The variable created from this item was reverse coded to range from low to high perceived economic threat.

Cultural Threat

Respondents were asked: "Would you say that America's cultural life is generally undermined or enhanced by people coming to live here from other countries?" (IMUECLT). Response options ranged from (0)-"Cultural life undermined" to (10)-"Cultural life enhanced." The variable created from this item was reverse coded to range from low to high perceived cultural threat.

Crime Threat

Respondents were asked: "Do you think America's crime problems are made worse or better by people coming to live here from other countries?" (IMWBCRM). Response options ranged from (0)-"Made worse" to (10)-"Made better." The variable created from this item was reverse coded to range from low to high perceived crime threat.

SUPPLEMENTAL APPENDIX C
2005 CID Additional Results

**Table C1. Humanitarianism and the Perceived Impacts of Immigration
(2005 CID Survey)**

	Economic Threat	Cultural Threat	Crime Threat
Humanitarianism	-.094* (.039)	-.116** (.038)	-.065† (.034)
Education	-.065† (.035)	-.206*** (.034)	-.084** (.031)
Income	.015 (.042)	.059 (.041)	-.015 (.037)
Age	.007 (.036)	-.004 (.035)	-.010 (.031)
Gender	-.011 (.017)	.010 (.016)	.007 (.015)
Unemployed	.011 (.034)	-.010 (.034)	-.034 (.030)
Pocketbook Evaluations	.080* (.035)	.121*** (.034)	.018 (.031)
Ideology	.139*** (.043)	.134*** (.042)	.069† (.037)
Party ID	-.009 (.026)	.044† (.026)	-.010 (.023)
Egalitarianism	.028 (.028)	.022 (.027)	.012 (.024)
National Identity	.116* (.052)	.036 (.051)	.118* (.046)
Hispanic Affect	.188*** (.045)	.148*** (.044)	.228*** (.039)
Right-Wing Authoritarianism	.257*** (.044)	.180*** (.043)	.143*** (.039)
Immigrant Friends & Family	.034 (.026)	.008 (.026)	.018 (.023)
Religious Attendance	-.067* (.032)	-.002 (.031)	-.003 (.028)
Constant	.232 (.072)	.201 (.071)	.358 (.064)
Adj. R ²	.179	.216	.148
N	721	721	721

Notes: Entries are unstandardized coefficients from OLS regression models. †p<.10 *p<.05, **p<.01, p<.001. Significance tests based upon two-tailed hypothesis tests.

SUPPLEMENTAL APPENDIX D

Question Wording from 2012 NC Primary Election Survey

For the following three scales, respondents indicated the degree to which they agreed or disagreed with the items listed below ranging from (1) “Strongly Disagree” to (5) “Strongly Agree” (“Neither” served as the neutral midpoint). Items were presented in random order. Reverse-worded statements identified by the letter “R.”

Humanitarianism

1. “One should always find ways to help others less fortunate than oneself.”
2. “The dignity and welfare of people should be the most important concern in any society.”
3. “All people who are unable to provide for their basic needs should be helped by others.”
4. “One of the problems of today's society is that we are often too kind to people who don't deserve it.” (R)
5. “A person should always be concerned about the well-being of others.”
6. “It is better not to be too kind to people, because kindness will only be abused.” (R)
7. “People tend to pay more attention to the well-being of others than they should.” (R)
8. “I believe it is best not to get involved taking care of other people's needs.” (R)

Empathy

1. “I find it easy to put myself in somebody else's shoes.”
2. “I am quick to spot when someone in a group is feeling awkward or uncomfortable.”
3. “Other people tell me I am good at understanding how they are feeling and what they are thinking.”
4. “I am NOT good at predicting how someone will feel.” (R)
5. “It is hard for me to see why some things upset people so much.” (R)

Egalitarianism

1. “If wealth were more equal in this country we would have many fewer problems.”
2. “Incomes should be more equal because every family's needs for food, housing, and so on, are the same.”
3. “We have gone too far in pushing equality in this country.” (R)
4. “This country would be better off if we worried less about how equal people are.” (R)

Education

Respondents were asked to list the highest level of education that they had completed. Item has 6 response options, ranging from (1)-“Did not finish High School (No GED)” to (6)-“Graduate Degree.”

Income

Income was based upon respondents’ total annual household income. This ordinal item has 7 categories, ranging from (1)-“Under \$25,000” to (7)-“Over \$150,000,” with increments of \$25,000.

Age

Respondents stated the year in which they were born, which we used this date to determine each respondent’s age.

Gender

A dichotomous item for which female respondents served as the baseline category.

Party Identification

A standard 5-point scale recoded to range from “Strong Democrat” to “Strong Republican.”

Ideology

A standard 5-point scale recoded to range from “Liberal” to “Conservative.”

SUPPLEMENTAL APPENDIX E

Stimulus Materials for Survey Experiment

Introduction—All Conditions (48 words, excluding title and date)

HONDURANS TO IMMIGRATE TO NORTH CAROLINA

April 9, 2012 - Raleigh, NC – In collaboration with local law enforcement and other state agencies, the U.S. Immigration and Customs Enforcement Office has drafted a plan to begin allowing hundreds of Hondurans to immigrate to North Carolina. Honduras is a republic in Central America with an estimated population of almost eight million people.

Threat Condition (88 words)

A report from the non-partisan Center for Immigration Studies (CIS) noted that these Honduran immigrants will require a wide range of tax-payer funded state services to help them begin their new lives in North Carolina. The report also indicated that the influx of Hondurans may increase competition for jobs in various sectors of the economy. Finally, the CIS report stated that these immigrants have limited English-language ability and exposure to American culture, so it is very likely they will take some time to fully assimilate into the U.S.

Humanitarianism Condition (103 words)

A report from the non-partisan Center for Immigration Studies (CIS) noted that the purpose of the plan is to help these Honduran immigrants escape extremely harsh and unsafe conditions in their home country. Nearly two-thirds of the Honduran population live below the poverty line and have limited access to clean drinking water, food, and employment. The Honduran government is also known for brutally repressing its citizens, whose rights are routinely violated by excessive use of police force that often ends in fatalities. In short, the CIS report suggests that poverty and government repression threaten the lives of many Hondurans simply trying to survive.

Combined Condition (Threat and Humanitarianism; 186 words)

A report from the non-partisan Center for Immigration Studies (CIS) noted that these Honduran immigrants will require a wide range of tax-payer funded state services to help them begin their new lives in North Carolina. The report also indicated that the influx of Hondurans may increase competition for jobs in various sectors of the economy. Finally, the CIS report stated that these immigrants have limited English-language ability and exposure to American culture, so it is very likely they will take some time to fully assimilate into the U.S.

Yet, the CIS report also noted that the purpose of the plan is to help these Honduran immigrants escape extremely harsh and unsafe conditions in their home country. Nearly two-thirds of the Honduran population live below the poverty line and have limited access to clean drinking water, food, and employment. The Honduran government is also known for brutally repressing its citizens, whose rights are routinely violated by excessive use of police force that often ends in fatalities. In short, the CIS report suggests that poverty and government repression threaten the lives of many Hondurans simply trying to survive.

Control Condition (42 words)

The climate is generally pleasant and temperate, with dry and wet seasons. The terrain includes mountainous areas, coastal beaches, and jungle lowlands. It is notable for its production of minerals, tropical fruit, and recently for exportation of clothing for the international market.

SUPPLEMENTAL APPENDIX F
Regression Results for Figures 1 and 2

Table F1. Effects of Experimental Treatments On Support for Restrictive Policy (2012 NC Primary Election Statewide Survey)

	<i>B</i>	<i>(SE)</i>
Threat Condition	.345†	(.229)
Humanitarian Condition	-.481*	(.224)
Combined Condition	-.385*	(.221)
<i>Thresholds</i>		
Cut 1	-2.45	(.199)
Cut 2	-.266	(.161)
<i>N</i>	616	
<i>Effect Sizes</i>		
Δ Pr (Y= “decreased”) due to:		
Δ Control→Threat	.081	
Δ Control→Humanitarian	-.120	
Δ Control→Combined	-.098	

Notes: Entries are unstandardized coefficients from an ordered logistic regression. The dependent variable is *Amount of Immigration*, coded so that highest category indicates support for decreasing the amount of immigration into the U.S. Reported effect sizes are based upon post-estimation analysis of predicted probabilities using CLARIFY (King, Tomz, and Wittenberg 2000) in Stata®. Reported effect represents the change in the probability of preferring the amount of immigration be “decreased” associated with moving from the control group to each respective experimental condition. †p<.10, *p<.05, **p<.01, p<.001. Significant tests based upon one-tailed hypothesis tests.

Table F2. Effects of Experimental Treatments by Empathy on Immigration Policy Preferences (2012 NC Primary Election Statewide Survey)

	<i>B</i>	<i>(SE)</i>
<i>Treatment Condition</i>		
Threat	2.580**	(1.060)
Humanitarianism	.791	(.999)
Combined	.161	(.988)
<i>Moderator</i>		
Empathy	-.660	(1.098)
<i>Interactions</i>		
Threat X Empathy	-3.393*	(1.598)
Humanitarianism X		
Empathy	-2.027†	(1.559)
Combined X Empathy	-.866	(1.542)
<i>Thresholds</i>		
Cut 1	-2.890	(.716)
Cut 2	-.659	(.704)
<i>N</i>		615

Notes: Entries are unstandardized coefficients from an ordered logistic regression. † $p < .10$, * $p < .05$, ** $p < .01$, *** $p < .001$. Significance tests based upon one-tailed hypothesis tests.