Perspective taking can promote short-term inclusionary behavior toward Syrian refugees

Claire L. Adida a,1,2, Adeline Lo a,1, and Melina R. Platas c,1

a Department of Political Science, University of California, San Diego, La Jolla, CA 92093-0521; b Department of Politics, Princeton University, Princeton, NJ 08540; and c Division of Social Science, New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

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Social scientists have shown how easily individuals are moved to exclude outgroup members. Can we foster inclusion instead? This study leverages one of the most significant humanitarian crises of our time to test whether, and under what conditions, American citizens adopt more inclusionary behavior toward Syrian refugees. We conduct a nationally representative survey of over 5,000 American citizens in the weeks leading up to the 2016 presidential election and experimentally test whether a perspective-taking exercise increases inclusionary behavior in the form of an anonymous letter supportive of refugees to be sent to the 45th President of the United States. Our results indicate that the perspective-taking message increases the likelihood of writing such a positive letter by two to five percentage points. By contrast, an informational message had no significant effect on letter writing. The effect of the perspective-taking exercise occurs in the short run only, manifests as a behavioral rather than an attitudinal response, and is strongest among Republicans. However, this effect also appears in the subset of Republican respondents, suggesting that efforts to promote perspective taking may move to action a wide cross-section of individuals.

Significance

We investigate whether American citizens can be persuaded to adopt more inclusionary behavior toward refugees by using a minimally invasive online perspective-taking exercise frequently used by refugee advocates in the real world. Through the use of a randomized survey experiment on a representative sample of American citizens, we find that this short and interactive perspective-taking exercise can promote, in the short term, Americans’ willingness to act on behalf of Syrian refugees, by writing anonymous letters of support to the White House. This effect, while driven primarily by self-identified Democrats, is also apparent among self-identified Republicans.

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Data deposition: The data reported in this paper have been deposited in the Github database (available at https://github.com/adelineio/refugee_empathy).

1 C.L.A., A.L., and M.R.P. contributed equally to this work.
2 To whom correspondence should be addressed. Email: cadida@ucsd.edu.

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members (21). Observational work also suggests that differing levels of empathy explain varying political attitudes across racial groups (22, 23). There is therefore a scientific basis for the idea that a perspective-taking treatment may result in more inclusionary attitudes toward refugees. But we currently lack a causal empirical test confirming whether or not this is indeed the case outside the laboratory. Further, we do not know the extent to which perspective taking can shift actual political behavior.

Our approach is to embed an intervention already used by refugee advocates in a nationally representative survey experiment, in which we can causally identify whether and the extent to which the perspective-taking exercise moves individual behavior toward greater refugee inclusion. We find that it does in the short run. Specifically, compared with the control group, those who participated in the perspective-taking exercise were substantially and significantly more likely to write a letter in support of refugees to the US President. Additionally, while the effect of the exercise is strongest for Democrats, a subset of the population with positive priors about refugees, we nonetheless find a smaller, although still significant effect of the intervention among Republican respondents.

Our finding comes with two important caveats. First, while the effect of the intervention is robust and survives the Bonferroni correction for multiple-hypothesis testing, it is also short-lived. After 1 wk, those who participated in the exercise were not more likely than those who had not to write a letter. Second, the effect manifests as a change in respondent behavior, but we find no evidence that it promotes inclusionary attitudes toward refugees. Instead, the evidence suggests that this perspective-taking treatment nudged those with high baseline levels of inclusionary attitudes to act on that preference, closing the attitudinal–behavioral gap in the short term.

Our findings speak to literature across multiple disciplines in the social sciences. First, we contribute to a nascent scholarship on prejudice reduction outside the laboratory. While much existing work has primarily examined attitudes toward and beliefs about outgroup members (14, 17), a main outcome of interest in our study is semibehavioral—the act of writing a letter to an elected leader, a form of political participation. Additionally, although we deliver our intervention in a survey, the intervention itself is one already used by refugee advocates. As such, our experimental treatment can change actual behavior in the real world to promote inclusion toward refugees among host populations.

We also contribute to a rich literature on immigrant exclusion, which often treats individual attitudes and behaviors toward immigrants as static (24). Previous work has emphasized the stability and intensity of immigration attitudes (25). Our study shows that, such research notwithstanding, it is possible to shift a respondent’s behavior toward refugees at least in the short run. Indeed, we show both that a minimally intrusive intervention can change behavior and that this effect is especially strong among those who hold more inclusionary baseline attitudes. These results call for more research on the drivers of attitudinal and behavioral change when it comes to public attitudes toward immigrants and refugees.

Finally, our work has implications for political activists seeking to redirect public debate on refugees. Indeed, the treatments we used in this study reflect the arguments and strategies regularly used in the policy world and in the media, often with the intent to shape public opinion about refugees. Our perspective-taking treatment borrowed directly from an existing lesson builder offered to educators by the Pulitzer Center, asking participants to imagine themselves as a refugee and answer a set of three open-ended questions: “Imagine that you are a refugee fleeing persecution in a war-torn country. What would you take with you, limited only to what you can carry yourself, on your journey? Where would you flee to or would you stay in your home country? What do you feel would be the biggest challenge for you?”

In addition to a pure control condition, we include a separate treatment that provides information about the US commitment to resettling Syrian refugees relative to that of other industrialized democracies. Indeed, at least two previous studies (15, 26) suggest that providing information about immigrants can increase inclusion. More specifically, this treatment provides information in the form of a graph highlighting the comparatively low number of Syrian refugees the United States has committed to resettle (SI Appendix, Fig. S2). The treatment provides objective information; it does not engage the respondent in any perspective-taking exercise. We therefore treat it here as a test of whether an alternative message—one that does not appeal to respondent perspective taking—might have an inclusionary effect.

In each of our three conditions, half of the sample was randomly selected to complete the full survey during wave 1, from October 20, 2016 to October 26, 2016. The other half completed only the first part of the survey during wave 1 (completing only the pretreatment and treatment portions) and then completed the second part of the survey (the posttreatment portion) during wave 2, from October 28, 2016 to November 5, 2016. In other words, some respondents were randomly assigned to answer our outcome variable questions immediately after treatment, while others were randomly assigned to do so 8 d later, allowing us to test the durability of our perspective-taking treatment effect.

Our perspective-taking treatment engaged respondents as expected. More than 86% of respondents in the perspective-taking treatment group provided written responses to the perspective-taking vignette questions. We can further confirm that our information treatment provided new information to close to 62% of respondents.

We measure inclusion via a semibehavioral task that asks respondents to write, if they are willing, a letter to the next

*For UNHCR, for example, the “My Life as a Refugee” game (mylifeasarefugee.org/game.html) and “7 videos guaranteed to change the way you see refugees” (www.unhcr.org/innovation7/videos-guaranteed-to-change-the-way-you-see-refugees.html) “will force you to imagine what the Syria Crisis would look like in New York City or London, to see what a year of conflict could do to a child, but most importantly to recognize refugees as ordinary people.” Mercy Corps ran an experiential exhibit that created a “multidimensional and highly personal view into the daily life of the millions of people forcibly displaced from their homes.” (https://www.mercycorps.org/press-room/releases/mercy-corps-opens-beyond-survival-life-refugee-experience).
President of the United States in support of admitting Syrian refugees. An increasing number of social scientists have recently turned to semibehavioral measures in surveys to guard against response bias (27, 28). Indeed, our participants had to write a response requiring both time and cognitive effort. Additionally, the content of the note was meaningful since we told respondents, truthfully, that we would subsequently send the letter to the future President. (For ethical purposes, the letters remain anonymous, and respondents were informed as such.) Relying on such a measure therefore reduces the likelihood that respondents reacted to the perspective-taking intervention out of acquiescence or social desirability bias.

We use a dichotomous measure that equals 1 if the respondent not only said “yes, I want to write a letter,” but also on the actual content of the letter. In SI Appendix, section 8, we present results on alternative outcome variables, but our main analysis relies on the behavioral measure we prespecified in our preanalysis plan. (We did not prespecify that we would manually recode this variable because we did not anticipate that respondents would take this opportunity to write a negative message to the President (one more excluding of refugees). In our preanalysis plan, we assumed that this variable would capture a behavioral measure of support for refugees. Our recoding reflects the original intent behind the measure.)

Given the randomized design of the experiment, we can rely primarily on ordinary least-squares (OLS) regressions of treatments with appropriate covariate controls on the outcomes to identify our causal estimands of interest. We include controls for the following prespecified pretreatment covariates, measured for each respondent: gender, age (via birth year), US born, education level, religion, party identification (party ID), and ethnocentrism. We use the demeaning construction for noncategorical covariate controls as well as interactions with the treatment in estimating equations (29). Given the goal of identifying the treatment effect of treatment $T$ on outcome $Y$ and controlling for pretreatment covariate $X$, the estimating equation is

$$Y = \beta_0 + \beta_1 T + \beta_2 (X - \bar{X}) + \beta_3 T \cdot (X - \bar{X}),$$  \hspace{1cm} [1]$$

where $\beta_1$ is the estimated treatment effect, and errors are robust and clustered at the individual level for outcomes measured several times for each individual (e.g., refugee rating). While our randomized research design allows for an unbiased estimation of the treatment effect, we wish to improve precision, through the adjustment of covariates (29) as well as the appropriate clustering of errors. We note that our main findings are unchanged when using weighted least squares (SI Appendix, Table S1).

**Results**

All tests of average treatment effects presented here, unless otherwise noted, have been prespecified in a preanalysis plan we registered with the Evidence on Governance and Politics site (egap.org/registry/2235) before data analysis. The tests on heterogeneous treatment effects by respondent party ID were not prespecified.

We find that the perspective-taking treatment resulted in a significant increase in the likelihood of writing a letter in support of refugees. This effect is strongest among Democrats, but observable also among Republicans. Finally, the effect does not survive after 1 wk nor does it appear to change respondent attitudes toward refugees, suggesting that minimally intrusive treatments—like the one used by the Pulitzer Center—are effective in moving inclusionary behavior in the short term and may be more effective in nudging behavioral change than altering attitudes.

The leftmost coefficient in Fig. 1 illustrates our main finding, that those who were randomly assigned to the perspective-taking treatment were significantly more likely to write a letter in support of refugees than those in the control group. While 18.8% of our sample wrote a supportive letter in the control condition, 20.8% did so under the perspective-taking treatment, an 11% increase. To contextualize the size of the effect, the most popular online petitions to Presidents Obama and Trump to increase US commitments to accept refugees target between 75,000 and 100,000 signatures. (See for example the most popular Change.org and Moveon.org petitions: https://www.change.org/p/barack-obama-resettle-syrian-refugees-in-the-u-s and https://petitions.moveon.org/sign/urge-the-us-government.) An increase from 18.8% of this goal to 20.8% of this goal amounts to an increase in approximately 1,500–2,000 signatures.

Fig. 1 further indicates that the effect is not driven by the administration of just any message about Syrian refugees. Indeed, the information message about the number of Syrian refugees the United States has committed to resettling relative to that of other industrialized democracies exercised a statistically insignificant effect on letter writing (rightmost coefficient in Fig. 1). Additionally, the effect of the perspective-taking message is significantly different from that of the information message (center coefficient in Fig. 1). In other words, there is something particular about the perspective-taking exercise that moved respondents to write letters to the President, in support of admitting Syrian refugees.

Yet we also find that the effect of perspective taking is short-lived. In SI Appendix, Fig. S3 breaks down the average treatment effect of perspective taking by wave, showing that wave 1 largely drives the main effect. Those who received the perspective-taking treatment were no more likely to write a letter 1 wk later than were those in the control group. At least in the context of our survey experiment, perspective taking works in the short run.

Is the effect of perspective taking restricted to certain types of respondents? Although we did not preregister the following set of analyses, it is worth investigating whether the perspective-taking exercise worked only on self-identified Democrats, who may be more predisposed to respond positively to efforts to increase refugee inclusion [a claim we confirm by looking at the probabilities of writing a supportive letter for Democrats (23%) vs. Republicans (4.6%) in the control condition—a statistically significant difference ($P = 0.000$)]. Fig. 2 illustrates the heterogenous treatment effects of our perspective-taking treatment by party ID, with the effect on the self-identified Democratic subsample in blue, the effect on the self-identified Independent subsample in green, and the effect on the self-identified Republican subsample in red.

1 In an online appendix at 1 https://github.com/sidelinear/refugee-empathy, we present results for the full set of analyses we preregistered in our preanalysis plan. These results confirm that the statistical significance of the effect of perspective taking on letter writing in the short run survives the Bonferroni correction for multiple-hypothesis testing. It also confirms that we find largely null effects on respondent attitudes toward refugees, with the possible exception of attitudes toward admitting refugees who pass a security screening. Here, the perspective-taking exercise seems to move respondents toward greater inclusion on this measure as well. The statistical significance of this effect, however, passes only the 90% confidence threshold. Finally, it shows that all our results hold when we estimate Eq. 1 with a logistic regression rather than OLS for binary outcome variables.
We find that the robust significant positive effect of perspective taking on letter writing is driven largely by Democrats, who have a 25% likelihood of writing a supportive letter in the control condition and a 34% likelihood of writing such a letter in the perspective-taking condition—a nearly 50% increase. The perspective-taking treatment moved Republicans in the positive direction as well: from 4.6% in the control condition to 7.4% in the perspective-taking treatment, a statistically significant effect as estimated in Eq. 1. Our results suggest that the perspective-taking treatment moves to action individuals from a cross-section of partisan backgrounds.

Discussion

Our findings reveal how common strategies and narratives influence public responses to refugees and how these effects vary by party. Overall, the perspective-taking treatment proved effective in promoting inclusionary behavior, but this effect is short-lived. Meanwhile, the alternative information treatment failed to move our respondents toward more inclusionary behavior, suggesting that there is something particularly effective about a perspective-taking exercise.

Our results have important implications for understanding what kinds of messages shape public opinion and public action. Importantly, it is worth considering why we find an effect of the perspective-taking treatment on behavior (letter writing), but not on attitudes (refugee ratings; SI Appendix, Fig. S5). Literature in psychology has long noted the weak relationship between attitudes and behavior (30, 31), and political scientists have recently come to similar conclusions (32, 33).

We propose that our intervention did not change attitudes but rather strengthened the attitude–behavior link. In other words, our perspective-taking exercise may have given respondents an opportunity to act on their attitudinal dispositions. Under this interpretation, our treatment provided a nudge, encouraging those who already held positive attitudes toward refugees to take action on that preference. Our perspective-taking treatment may have primed respondents’ intrinsic motivation to help others in need, which then caused them to take action when given the relatively low-cost opportunity to do so; or it may have applied extrinsic (social) pressure to act (34–36).

Although we cannot tell whether our treatment appealed to intrinsic motivation or extrinsic pressure, we find two results that give us confidence in the interpretation that perspective taking closed the attitude–behavior gap among those who already held inclusionary attitudes. First, as we have shown in SI Appendix, Fig. S3, our treatment was effective only in wave 1. That our treatment worked only in the short run is consistent with the interpretation that our intervention nudged respondents to act on their positive attitudes.

Second, we find that the probability of letter writing is higher for individuals who provide higher values on our refugee rating scale (Y2) than for individuals who provide lower values. We illustrate this first with descriptive statistics presented in SI Appendix, Fig. S13, which shows the probability of letter writing for each value of Y2 in our control condition (solid line) and in our perspective-taking condition (dashed line). SI Appendix, Fig. S13 highlights where our intervention took effect: individuals who rated refugees a 7 (the highest possible rating) were more likely to write a letter under the perspective-taking condition than under the control condition (a result that is statistically significant at the 95% confidence level). This is not the case for any other value of our refugee rating scale. In other words, our intervention may have moved to action those individuals with the warmest predisposition toward refugees, and this holds for both Democrats and Republicans (SI Appendix, Figs. S14 and S16).

Because both our refugee scale and letter-writing measures were asked after the treatment, we also conduct an inference-based analysis that adjusts for posttreatment bias. To do so, we focus on a specific quantity of interest, the average controlled direct effect (ACDE), which measures the causal effect of a treatment (perspective taking) when the mediator (refugee rating) is fixed at a particular level. We apply the debiasing techniques proposed in Acharya et al. (37) to estimate the ACDE when the refugee rating is fixed at high values and when the refugee rating is fixed at low values. We find that the magnitude of the treatment effect on letter writing for individuals who gave high refugee ratings (6 or 7) is 3.5 times greater than that of the treatment effect on letter writing for individuals who gave low refugee ratings (between 1 and 5). (This finding is robust to defining high refugee ratings as a 7 and low refugee ratings as anything between 1 and 6.) Together, our descriptive and inference-based analyses support the interpretation that our intervention...
strenthened the attitude–behavior link for individuals with the most positive priors toward refugees.²

Finally, we turn to the subset of respondents—Independents—for whom the perspective-taking treatment affected attitudes (SI Appendix, Fig. S12) but not behavior (Fig. 2 and SI Appendix, Fig. S15). Recent work on the political behavior of Independents suggests that these individuals are less likely to take action that is perceived as partisan (40). To the extent that being supportive of refugees is a partisan issue, a plausible interpretation given the elite partisan divide on immigration politics (12), writing a letter to the next US President may have seemed to Independents respondents like partisan action. If so, it is not surprising that Independents turned down the opportunity to do so. We thus interpret our findings on the ambivalent effects of our perspective-taking treatment on Independents as consistent with the latest research on self-identified Independents in American politics. Our results raise questions about the conditions under which, and the mechanisms through which, perspective taking promotes inclusionary behavior. In our study, a perspective-taking exercise increased inclusionary behavior, but an informational message did not. There is still much to learn about what aspects of our perspective-taking message moved respondents toward inclusion, in particular because our design does not allow us to measure whether our perspective-taking treatment instilled empathy among our respondents. Additionally, the attenuation of the effect in wave 2 raises questions about the durability of a perspective-taking exercise, particularly in a highly polarized context where respondents are likely exposed to a multitude of stimuli in the real world. We suspect this was precisely the context our participants found themselves in, during the 2 wk before a polarized presidential election (SI Appendix, Fig. S4 shows that the attenuation of the treatment effect in wave 2 is driven by a statistically significant increase (P = 0.03) in inclusionary behavior among respondents in the control condition). Future work could also disentangle the extent to which perspective taking and other interventions designed to promote inclusion are more effective when they appeal to extrinsic pressure or intrinsic motivation. We see here an opportunity to further define the scope in which perspective-taking exercises effectively reduce prejudice and promote inclusionary behavior outside the laboratory.

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