# Moral Universalism: Measurement and Heterogeneity\*

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### **Abstract**

This paper introduces a set of experimentally-validated survey games to measure moral universalism: the extent to which people exhibit the same level of altruism and trust towards strangers as towards in-group members. In a representative sample of the U.S. population, an individual's degree of universalism is a fairly general trait. Older people, men, the rich, the rural, and the religious exhibit less universalist preferences and beliefs. Looking at economic and social behaviors, universalists donate less money locally but more globally, are less likely to exhibit home bias in equity and educational investments, have fewer friends, and report being more lonely.

Keywords: Moral universalism, in-group favoritism, altruism, trust

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## 1 Introduction

This paper introduces a set of simple and portable experimentally-validated survey games to measure and study heterogeneity in *moral universalism*: the extent to which people exhibit the same level of altruism and trust towards strangers as towards in-group members, holding fixed the overall level of altruism and trust. Universalists are not "more" or "less" moral: full universalism simply corresponds to the extreme case that one's neighbor, friend or cousin are treated in the same way (and trusted by the same amount) as a random stranger.

Both psychologists and economists have long been aware that most people are not fully universalist. Instead, they expend more altruism towards, and are more likely to trust, members of their own social groups such as co-ethnics, family members, or people with similar political views (Fershtman and Gneezy, 2001; Goette et al., 2006; Bernhard et al., 2006; Sutter and Kocher, 2004; Bauer et al., 2018; Kranton et al., 2016; Berge et al., 2018). Yet while there is now a considerable body of evidence on in-group favoritism in specific domains, most widely used experimental games are designed to illuminate tradeoffs between "me vs. you," rather than "us vs. them." Thus, little work has focused on (i) developing a simple and portable measurement tool that allows to identify universalism in a general way, rather than with respect to a specific in-group; (ii) understanding the consistency with which people are (not) universalist across different in-groups or domains; (iii) documenting heterogeneity in universalism and corresponding sociodemographic correlates; and (iv) understanding the relationship between heterogeneity in universalism and economic decision-making.

This paper develops and experimentally validates a survey-based measure of moral universalism in altruism and trust with respect to a wide range of potential in-groups. By deploying our measure in a survey of a large representative sample of the U.S. population, we document that (i) an individual's degree of universalism appears to be a fairly general trait that is rather insensitive to the choice of specific in-groups or the decision-making domain (altruism or trust beliefs); (ii) individuals exhibit large heterogeneity in universalism, which correlates with a range of sociodemographic variables; and (iii) heterogeneity in universalism is systematically correlated with relevant and pre-registered economic and social behaviors and outcomes.

Our empirical measure of universalism in altruism derives from a series of money allocation games in a spectator design, in which survey participants split the hypothetical sum of \$100 between two individuals: a member of an in-group and a randomly-selected stranger. This spectator design has the attractive feature that it does not rely on the detour of self-other tradeoffs and hence holds the overall level of a respondent's altruism constant by construction.

Ideally, we would like to capture universalism for the universe of potential in-groups, yet this is infeasible in practice. Our approach is hence to select a broad range of groups based on an ex-ante crowdsourcing exercise. We then vary the specific identity of the recipients in the bystander money allocation games to construct measures of domestic, foreign, and global universalism in altruism.

First, domestic universalism measures tradeoffs between a domestic in-group member and a random domestic person. Here, the list of in-groups includes the respondent's extended family, neighbors, friends of family, colleagues, organization (e.g., club) and people who share the respondent's hobbies, religious beliefs, age, political views, or race. For instance, in one question, a participant is asked to split hypothetical \$100 between a member of their extended family and a randomly-selected person from the United States. Second, foreign universalism is measured by asking respondents to split \$100 between a random person who lives in the U.S. and a random world citizen. Third, global universalism is derived from allocation games in which the potential recipients are either random world citizens or global in-group members such as someone who speaks the respondent's language or shares their religious beliefs. In total, respondents complete a set of 16 money allocation games. These domestic, foreign, and global universalism components are highly correlated. We hence combine them into a summary statistic of universalism in altruism.

Apart from presenting this main summary statistic of universalism in altruism, we also introduce a short three-question version of our module. The resulting short measure exhibits a correlation of  $\rho=0.94$  with our main universalism variable, and can be elicited by researchers who are operating under tight time constraints.

We estimate an individual's degree of universalism in trust using similar techniques. Respondents complete the same 16 allocation games as described above, yet split 100 trust points (rather than \$100) to indicate which of two individuals they trust more. Again, this yields summary measures of domestic, foreign, and global universalism, which are highly correlated. We collapse these into a summary statistic of universalism in the trust domain.

We validate these survey tasks in various ways. (i) While our money allocation games are hypothetical in nature, we implement an experimental validation procedure in which we show that behavior in our hypothetical tasks is strongly correlated with behavior in the same financially-incentivized money allocation games. (ii) We show that responses to our trust questions are strongly correlated with beliefs in a structured experimental cheating task. (iii) We document that universalism as estimated from our specific set of 15 domestic and global in-groups is almost perfectly correlated with universalism as measured in a larger set of 40 such social groups.

To shed light on the internal structure of universalism and its relationship with eco-

nomic behaviors and outcomes, we deploy our instruments in a large-scale pre-registered nationally representative internet survey of the U.S. population ( $N \approx 6,600$ ). Our analysis begins by decomposing the variation in behavior in our 32 money and trust point allocation games. From an ex-ante perspective, it is conceivable that (i) individuals exhibit substantial heterogeneity in their average level of universalism across in-groups; (ii) people do not differ much in how universalist they are on average, yet everyone is more parochial vis-à-vis some in-groups than others; (iii) different people are parochial with respect to different in-groups. We find that the vast majority of the data is explained by (i) and (iii). 31% of the variation in the data is due to respondent fixed effects; in contrast, only 8% of the variation in the data are due to fixed effects for specific in-groups. These patterns imply that individual-level heterogeneity in universalism is much more important in the data than what exactly the identity of the in-group is: to a first approximation, people who are parochial when their extended family is involved, are also parochial when co-ethnics are involved. While the identity of in-groups matters relatively little, individual-level heterogeneity in universalism is substantial: while a large majority of participants favor their in-groups to varying degrees, others essentially never discriminate based on group membership.

Our findings suggest that universalism is a reasonably general trait that is partly invariant to the specific domain (beliefs or preferences) and choice of in-group. Indeed, our summary measures of universalism in altruism and trust are highly correlated with each other ( $\rho=0.56$ ;  $\rho=0.82$  after correcting for measurement error), which again suggests that these different dimensions indeed reflect the same underlying psychology. Further analyses suggest that participants' consistency across choice tasks is not mechanically driven by "laziness," but indeed reflects deliberate decisions that vary in meaningful and internally consistent ways across social groups.

Given that individual-level heterogeneity is the main source of variation in our data, we next study its sociodemographic correlates. We find that older people, men, whites, the rich, people with lower cognitive skills, the rural, and the religious exhibit less universalist preferences and beliefs, on average. Here, the strongest correlations are found with age and religiosity.

In a final step of the analysis, we investigate the potential economic and social relevance of heterogeneity in moral universalism. To this effect, we focus on four sets of pre-registered outcomes and behaviors: donation decisions, home bias in equity and educational investments, and the structure of people's social networks. First, we document that more universalist people donate less money locally (to local community organizations or churches); at the same time, universalists donate more money to nationwide and global charities. Thus, the type of universalism that we pick up with our survey games is related to economically meaningful differences in real donation decisions, highlighting

the external validity of our measurement tool.

Second, we elicit measures of home bias in equity investments. It is well-known in the finance literature that people on average exhibit so-called equity home bias, whereby they invest considerably less money into foreign companies relative to domestic ones than seems warranted given actual risk-return profiles and transaction cost differences. We measure equity home bias by eliciting the value of national and international stocks participants own. In addition, we asked participants how they would invest a hypothetical budget between a manufacturer in the U.S. and one outside the U.S. For both actual and hypothetical equity investments, we find that universalists exhibit less home bias.

Third, we obtain a measure of "home bias" in educational investments. It is conceivable that non-universalists are less open to move away for educational purposes, because they might value and trust their local environment more. We hence ask respondents whether they would advise their child to attend a local college, or a college that is geographically distant but ranked slightly higher. We find that universalists are more likely to advise their children to study at a faraway college.

Finally, we elicit a range of pre-registered measures related to social ties. The rationale for doing so is that universalists – by virtue of expending their altruism and trust budget more uniformly – might invest less into close relationships. Indeed, moral philosophers in the communitarian tradition have long argued that universalism produces atomized and socially isolated individuals (Sandel, 2005; Etzioni, 1994). To empirically assess this, we measure how many friends and acquaintances our respondents have, how much time they spend with them, how often participants give and receive help within their community, and whether they feel that they live a socially-rewarding or lonely life. In line with our hypothesis, universalists have fewer friends and acquaintances, spend less time with their social contacts, and report being more lonely.

Our paper fits into the small lab-to-field literature on in-group bias and parochialism cited in the opening paragraph and recently reviewed by Lane (2016). This literature has mostly used dictator games (self-other tradeoffs) to measure parochialism, while we rely on spectator designs. Other work in political economy and cultural economics has measured universalism using psychological questionnaires that include a broad swath of both utilitarian and deontological moral concepts (Enke, forthcoming, 2019; Haidt, 2012). Our paper contributes to these literatures by (i) developing and validating a portable measurement device for moral universalism that can easily be deployed in surveys and experiments and does not rely on the detour of self-other tradeoffs, (ii) shedding light on the structure of universalism across a large set of in-groups, (iii) studying heterogeneity in universalism and corresponding correlates, (iv) relating universalism to a range of relevant economic and social behaviors and outcomes.

## 2 Conceptualizing and Measuring Universalism

## 2.1 Universalism

We are interested in measuring universalism, defined as the extent to which people exhibit the same level of altruism (preferences) and trust (beliefs) towards everyone, holding fixed the overall level of altruism and trust. For example, a full universalist trusts their mother to the same extent as a random stranger, while less universalist beliefs reflect high trust in in-group members but low trust in out-group members. This clarifies that universalism is not about "me vs. you" (as most research on social preferences in behavioral economics) but instead about "us vs. them."

A key issue is the types of in-groups we consider. Throughout, we define and work with the following types of social identities:

- 1. Domestic in-group members (e.g., one of your neighbors, or someone in the U.S. who shares your religious beliefs)
- 2. Domestic strangers
- 3. Global in-group members (e.g., someone anywhere in the world who shares your religious beliefs)
- 4. Global strangers

We will empirically measure (i) domestic universalism as tradeoff between 1. and 2.; (ii) foreign universalism as tradeoff between 2. and 4.; and (iii) global universalism as tradeoff between 3. and 4.

## 2.2 Measurement

Universalism in altruism. To measure universalism in altruism, we use a "bystander" money allocation game. In any given task, participants were asked to allocate hypothetical \$100 between two recipients: a member of an in-group and a "randomly-selected person." Subjects could allocate the \$100 in any way they saw fit, but to ensure that the overall level of altruism is held constant, could not keep any money for themselves. Participants were asked to assume (i) that both recipients are equally rich (addressing income effects) and (ii) that neither of these recipients would find out who sent them the money (ruling out reciprocity considerations). Figure 5 in Appendix A.1 provides a screenshot of an example decision screen.

Our objective is to measure moral universalism with respect to a large set of potential in-groups, including both nationals and foreigners. Thus, respondents completed a

total of 16 hypothetical money allocation tasks that fall into three categories, based on the discussion in Section 2.1: domestic universalism, foreign universalism, and global universalism.

First, to estimate *domestic* universalism, respondents made a total of ten decisions, the order of which was randomized across respondents. In each of them, respondents were asked to split hypothetical \$100 between (i) a randomly-selected person who lives in the U.S. and (ii) a randomly-selected member of one of their social groups, who also resides in the U.S. To tie our hands in the selection of in-groups as much as possible, we based the selection on an ex-ante crowd-sourcing exercise. On Amazon Mechanical Turk (AMT), we asked a set of N=400 respondents which social groups they believe people most identify with. We then used those social groups that were mentioned most often (see Appendix A.2.3 for details). The final set of social groups includes extended family, friends of family, neighbors, colleagues at work or school, same organization (e.g., club), same age, same ethnic background or race, same political views, same hobbies, and same religious beliefs. The average allocation to the randomly-selected person across the ten questions makes up the domestic universalism measure.

Second, to estimate *foreign* universalism, respondents were asked to split hypothetical \$100 between (i) a randomly-selected person from the U.S. and (ii) a randomly-selected person who lives anywhere in the world. Foreign universalism then corresponds to the monetary amount sent to the global stranger.

Third, to estimate *global* universalism, respondents made five decisions, in each of which they were asked to split hypothetical \$100 between (i) a randomly-selected person who lives anywhere in the world and (ii) a randomly-selected person who lives anywhere in the world and is a member of the respondent's social groups. Across the five questions, the social groups included same language, same religious beliefs, same ethnic background, same values, and same occupation. Again, the selection of these five groups is based on the crowd-sourcing exercise described in Appendix A.2.3. The average amount of money sent to the randomly-selected world citizen makes up the global universalism measure.

To reduce the dimensionality of the data, and because these measures are highly correlated, we compute a summary statistic of universalism in altruism, which averages domestic, foreign, and global universalism. See Appendix D.1 for a correlation matrix.

*Universalism in trust*. The paradigm to measure universalism in trust is identical to the one described for altruism, except that in a given task respondents were asked to allocate 100 "trust points" (rather than hypothetical \$100) between two individuals. This

<sup>&</sup>lt;sup>1</sup>We excluded "close family" and "close friends" because pilot data revealed very little variation in respondents' parochialism with respect to these groups.

was explained to participants as allocating points to indicate whom they trust more. Figure 5 in Appendix A.1 provides a screenshot of an example decision screen. Respondents again completed a total of 16 tasks, based on the same social groups as above. This again yields domestic, foreign, and global universalism components, which we again average into a summary statistic of universalism in trust.

## 2.3 Ex-Ante Validation of Survey Questions

Universalism in Altruism. All of the money allocation decisions described above are hypothetical in nature. This is in line with an emerging large-scale survey literature that relies on unincentivized preference measures (Falk et al., 2018). Indeed, recent evidence suggests that in the absence of strong external defaults there are no differences in responses between incentivized and hypothetical survey questions (Baillon et al., 2020). It is also worth pointing out that our hypothetical money allocation game is the direct analogue of an experimental decision and hence tightly structured and well-defined.

To add further credence to the validity of our measures, we follow Falk et al. (2015) in conducting an experimental validation exercise. N=300 subjects on AMT completed both hypothetical and financially-incentivized versions of our money allocation games, with a one-week time lag. See Appendix A.2.1 for details.

We find that, over a one-week horizon, the correlation between average unincentivized universalism and average incentivized universalism is  $\rho = 0.38$ . This compares favorably to a financially-incentivized test-retest correlation of  $\rho = 0.33$ , which we obtain from another sample of N = 100 subjects. These correlations are in the same range as those in the validation exercises by Falk et al. (2015).

The correlation coefficients are likely attenuated because of measurement error. For example, when we consider only the subset of subjects who completed both stages of the survey in at least the median response time, the correlation between incentivized and hypothetical decisions increases to  $\rho=0.49$ . Also, the correlation equals  $\rho=0.50$  when we reduce measurement error by applying the Obviously Related Instrumental Variables technique of Gillen et al. (2019).

Universalism in Trust. We validate our universalism in trust tool with a measure of beliefs about others' behavior in a structured experimental cheating game. Here, subjects were asked to predict the behavior of another subject (with a given group membership) in a task that was built to resemble the widely used die-in-a-cup cheating task developed by Fischbacher and Föllmi-Heusi (2013). In online sessions conducted on Amazon MTurk, N=300 subjects completed both our trust questions and the structured cheating game. Reassuringly, we find that beliefs elicited in the cheating game correlate

strongly with our measure of universalism in trust ( $\rho = 0.60$ ). For details, we refer to Appendix A.2.2.

**Robustness to Larger Set of Social Groups.** To gauge whether our instrument is sensitive to the particular set of social groups we use, we implemented an additional validation check. With a sample of N=300 AMT workers, we conducted our money allocation games with a superset of 40 social groups. As summarized in Appendix A.2.3, we find very high correlations (around  $\rho \approx 0.9$ ) between our main universalism measure described above and universalism constructed from random subsets of the other social groups.

## 2.4 Digression: A Short Measurement Module

We develop short versions of our measurement modules that are based on fewer questions (in-groups). These short modules may prove useful for researchers interested in eliciting moral universalism under tight time constraints. As we discuss in Appendix B, in our survey to be presented below, almost all three-question versions of our measurement module exhibit correlations around  $\rho \approx 0.90$  with our main measure that is based on 16 questions. In fact, even the *separate allocation decisions* exhibit correlations of  $\rho \approx 0.50-0.70$  with the main universalism measures. This suggests that very short measurement modules will capture a large fraction of the information that is contained in our full module. We note here that three-question module that explains the largest fraction of the variation in universalism in altruism in our data ( $\rho = 0.94$ ).<sup>2</sup> However, we emphasize that *any* combination of one domestic, one foreign, and one global universalism question will represent a meaningful proxy for overall universalism.

## Short module for universalism in altruism.

- 1. Domestic: Split \$100 between a member of one of your past or current organizations (local church, leisure club or association, etc.) and randomly-selected U.S. person
- 2. Foreign: Split \$100 between randomly-selected U.S. person and randomly-selected person from anywhere in world
- 3. Global: Split \$100 between someone who speaks your same language and lives anywhere in the world and randomly-selected person from anywhere in world

<sup>&</sup>lt;sup>2</sup>We present the short module for universalism in trust in Appendix B.

## 3 Survey Design and Logistics

## 3.1 Logistics

We implemented a pre-registered survey of U.S. citizens born in 2001 or earlier through *Dynata*, a market research internet panel. The survey consisted of five components: (i) an initial screen that screened respondents in or out of the survey depending on whether their sociodemographic characteristics satisfied our sample quotas; (ii) decision screens to measure universalism and additional social preferences; (iii) a questionnaire; (iv) six survey blocks to elicit our outcome variables of interest; and (v) a Raven matrices IQ test. We took two measures to ensure quality control. First, every respondent who completed the survey in less than 400 seconds was immediately dropped and replaced by *Dynata*. Second, the survey contained two attention check questions. Whenever a respondent answered an attention check incorrectly, they were immediately routed out of the survey and replaced by *Dynata*. The median response time was 18 minutes.

We contracted with Dynata for a nationally representative sample of N=1,000 respondents. However, because constructing a sample that matches the census on the dimensions of age, gender, educational attainment, income, race, and employment status is logistically challenging, *Dynata* eventually supplied a much larger sample to us (total N=6,591), a subset of which makes up the more nationally representative sample. The physical process was that *Dynata* kept sampling respondents until our pre-specified quotas were satisfied. Since we view throwing away data as scientifically questionable, we report analyses based on the full sample in the main text. In Appendix G, we replicate all analyses using the pre-registered representative sample. The results are always similar. The sample characteristics for both the full and representative samples are described in Appendix C.1.

## 3.2 Pre-Registration

The target sample size, specifications of universalism measures employed, and outcome variables were included in a pre-registration on EGAP, see http://egap.org/registration/5810. We pe-specified that we would conduct separate analyses for universalism in altruism and in trust. However, to reduce the dimensionality of our analyses in the main text, we work with a summary statistic of universalism that averages decisions across altruism and trust. Appendices E and F report robustness checks for universalism in altruism and trust separately. The results are always similar.

Moreover, we report two additional correlational analyses that were left out of the pre-registration but included in the sociodemographic questionnaire: race / ethnicity, and wealth.

## 4 The Structure of Universalism

We begin our analysis by laying out the internal structure of universalism. Do people strongly differ in how universalist they are? Are some people more universalist vis-à-vis some in-groups, but less universalist vis-à-vis other in-groups? To address these questions, we decompose the variation in our full set of allocation game decisions, pooled across domains (universalism in altruism and trust) and types of in-groups, for a total of 210,912 decisions by 6,591 respondents.

Figure 1 shows that 31% of the variation in the data is due to respondent fixed effects. On the other hand, only about 8% of the variation is due to in-group fixed effects. This suggests that it matters much more for observed allocation decisions whether the respondent is overall universalist or not, than whether the particular in-group is given by, for example, domestic neighbors or global co-ethnics.

This suggests that respondents are relatively consistent in how (non-) universalist they are. A different way to see the high degree of consistency in universalism is to take each respondent's set of 32 money allocation and trust point allocations and construct a full correlation matrix. As illustrated in Figure 9 in Appendix D.1, we find that *every single one* of these correlation coefficients is positive and usually sizable in magnitude. This again suggests that universalism is a reasonably general trait that does not depend on the specific in-group that is used.

A potential concern is that these patterns reflect heuristic decision-making by respondents, in the sense that they mentally settle on an allocation decision and then mechanically implement this rule, without paying much attention to the particular in-group in a question. However, Figure 1 reveals that 36% of the variation in the data is due to respondent-times-social-group fixed effects. These interactions identify the attitudes of a specific respondent towards a specific in-group. If respondents had decided heuristically without paying attention to the specific in-groups, then – conditional on respondent and in-group fixed effects – the respondent-times-social-group interactions would explain none of the variation in the data. Thus, while there is large and meaningful variation in average universalism across respondents, this appears to reflect deliberate and internally consistent group-specific decisions, rather than heuristics.

Having established the relative importance of across-respondent and across-social-group heterogeneity, in Figure 2 we visualize the variation across these two dimensions. Panel A shows average allocation decisions, separately for each in-group. While there is clearly heterogeneity in universalism across different in-groups, perhaps the most striking feature of the figure is the close correspondence between allocation decisions in altruism and trust games. On average, people allocate about 62 dollars (or trust points) to their respective in-group members.

To visualize the across-respondent heterogeneity, we compute an overall composite measure of universalism, which is given by the average of the summary statistic of universalism in altruism and the summary statistic of universalism in trust. Panel B of Figure 2 shows a histogram of this composite measure, which has a simple interpretation. Zero means that the respondent allocated all money and all trust points to the respective in-group member in each of the 32 decisions. 50, on the other hand, means that the respondent split the money and the trust points equally, on average. Thus, values between zero and 50 correspond to intermediate, parochial decisions, while values above 50 reflect respondents who allocated more money or trust points to the strangers than the respective in-group members, on average.<sup>3</sup> We see that a large majority of respondents is partially parochial (very few data points are to the right of 50), yet there appears to be large heterogeneity in universalism across respondents.

Having identified individual-level heterogeneity as a main source of variation in our data, we now turn to examining correlates of this heterogeneity.

## 5 Sociodemographic Correlates of Universalism

Figure 3 displays OLS estimates from regressions of our composite universalism measure on a set of covariates. See Appendix C.2 for detailed descriptions of the construction of each of these variables, and Appendix E.2 for tabular results. Here, among others, we consider (i) a measure of cognitive skills that corresponds to the score on a five-item Raven matrices IQ test; (ii) an income and wealth index that aggregates measures of income and net worth; (iii) an urbanicity index that aggregates information on local population density and the respondent's self-reported neighborhood size; and (iv) a religiosity index that aggregates self-described religiosity (from 0 to 10), frequency of church attendance (on a scale from 0 to 5), and an indicator for atheism, agnosticism, or no religion.

We find that older people, men, whites, people with lower cognitive skills, the rich, the rural, and the religious exhibit less universalist preferences and beliefs. The strongest correlations are found with age ( $\rho=-0.21$ ) and religiosity ( $\rho=-0.20$ ). In terms of quantitative magnitudes, the results suggest that an additional ten years in age is associated with an additional 1.1 dollars or trust points allocated to a member of one's in-groups relative to a random stranger. Similarly, a one-standard-deviation increase in religiosity is associated with an additional 2.4 dollars or trust points allocated to a member of one's in-groups relative to a random stranger.

<sup>&</sup>lt;sup>3</sup>Figure 11 in Appendix E reproduces this distribution for universalism in altruism and trust separately. <sup>4</sup>Appendix E.2 presents tabular results separately for universalism in altruism and in trust, respec-

tively. Appendix E.3 further presents correlations between universalism and other types of social attitudes

## 6 Universalism and Economic Behaviors and Outcomes

Next we analyze whether heterogeneity in universalism is potentially relevant for economic and social behaviors and outcomes. We present pre-registered correlational analyses of the relationship between universalism and four types of behaviors and outcomes: (i) the structure of people's donations; (ii) home bias in equity investments; (iii) education choices; and (iv) the structure of people's social networks. This list of topics is unified by a common theme: they relate to how an individual makes trade-offs involving options that are more or less "local." We here present analyses that use the composite measure of universalism. The Appendix reports robustness checks for universalism in altruism and universalism in trust separately; the results are always similar.

**Donations.** Heterogeneity in universalism might be related to whom people donate to. An important distinction is between donations that go to local community organizations such as schools or local churches, and donations to nationwide or even global charities. To assess this, our survey asked respondents to report the dollar amount that they donated over the past 12 months in each of four categories: local community organizations, local church, nationwide charities, and global charities.

The top panel of Figure 4 studies the relationship between universalism and log donations in each of these four categories. Throughout, we standardize dependent variables into z-scores for ease of interpretation. For each dependent variable, we present the OLS coefficient of universalism for each of three different regression specifications: (i) a univariate regression (blue); (ii) a regression that conditions on age, gender, race, cognitive skills, and the income and wealth index; and (iii) a specification that additionally controls for religiosity, urbanicity, and college education. We emphasize that some of these covariates (such as age and religiosity) are potentially "bad controls" in the sense that these variables potentially induce variation in universalism in the first place. We hence view conditional regressions more as sensitivity checks than as attempts to get closer to causal identification.

The results show that universalist people donate less locally than less universalist people, yet they donate more at more global levels. In fact, going from left to right, the regression coefficients become uniformly more positive looking across the different donation domains. In terms of quantitative magnitude, an increase in moral universalism equivalent to an additional one dollar or trust point allocated to a random stranger is associated with a decrease in donations to local religious organizations of 4.9% and to local communities of 0.9%, and an increase in donations to global non-profits of 0.9%.

such as equity-vs.-efficiency preferences.

<sup>&</sup>lt;sup>5</sup>Appendix C.2 contains details on the elicitation procedure for all variables discussed in this section.

*Equity Investments.* A long line of literature originating with French and Poterba (1991) has documented "home bias" across a wide variety of financial asset classes, trade, and consumption goods. We hypothesize that some part of such home bias in equity investment decisions might be driven by low universalism. For example, it is conceivable that people with low universalism do not trust that managers of foreign companies conduct their regular business and believe that they instead engage in rent-seeking activities.

To investigate the relationship between universalism and home bias, our survey included two questions. First, we asked respondents how much money they have currently invested in national and foreign stocks. Second, because many people do not themselves own financial assets, we included a hypothetical investment question in which respondents were asked how they would invest hypothetical \$100 between stocks of a U.S. manufacturer and those of a manufacturer based abroad.

The middle panel of Figure 4 summarizes the results. We find that higher universalism is consistently correlated with lower home bias in equity. In terms of quantitative magnitudes, our data suggests that a one-dollar or trust point increase in moral universalism is associated with a 0.2% decrease in the portion of an investor's actual equity portfolio made up of domestic stocks, and similarly a 0.5% decrease in the domestic portion of an investor's hypothetical portfolio.

*Education Choices.* A potentially important dimension of educational decisions is geographic distance. Some people might prefer to study close to their place of upbringing, while others might be willing to move further away from home. It is conceivable that less universalist people are less willing to study further from home, simply because they value and trust their local community more.

To study the relationship between universalism and educational investment, our survey included a question on how likely (on a scale 0–10) respondents would be to recommend to their child that they attend a local college, relative to a college that is more distant but ranked slightly higher. The middle panel of Figure 4 summarizes the results. We find that higher universalism is consistently correlated with lower home bias in educational investments. In terms of quantitative magnitudes, an increase of ten dollars or trust points (about one standard deviation) in universalism is associated with a decrease on a scale from 0 (definitely recommend the local college) to 10 (definitely recommend the distant college) of 0.11.

**Social Networks.** In a final step, we study the relationship between universalism and the structure of people's social networks. This is motivated by the observation that, by definition, for a given level of altruism, universalists expend less altruism towards so-

cially close people. It is thus conceivable that universalists have fewer close relationships. Indeed, moral philosophers in the communitarian tradition have long argued that moral universalism produces atomized and socially isolated individuals (Sandel, 2005; Etzioni, 1994).

To investigate this, our survey contained six additional questions, regarding: (i) how many friends a respondent has, which we defined as "individuals with whom you feel mutual bonds of affinity and with whom you would feel comfortable sharing personal information"; (ii) how many acquaintances a respondents has, which we defined as "individuals you know and with whom you would feel comfortable spending some time, but only for more superficial or professional purposes"; (iii) how often a respondent interacts with friends in a typical week; (iv) how often a respondent both (a) gave help to and (b) received help from members of the local community within the month prior to completing the survey; and (v) respondents' self-assessment of whether they live a fulfilled social life or feel rather lonely, on a scale from zero to ten.

The results are reported in the bottom panel of Figure 4. Again, all outcome variables are standardized into z-scores. We find that universalists indeed have fewer close social connections: they report having fewer friends, fewer acquaintances, meeting with friends less often, and being more lonely. We do not find meaningful correlations with the number of times the respondent received or gave help to others. Overall, these results are consistent with the idea that while universalists treat socially distant people relatively well, they are relatively less inclined to invest into close relationships.

## 7 Conclusion

Through a large-scale survey of the U.S. population, we have derived evidence that universalism (i) is a domain-general parameter at the level of the individual that does not strongly depend on the specific in-group in question, (ii) varies meaningfully across the population along demographic dimensions of interest, and (iii) is systematically correlated with important dimensions of economic and social behavior.

To do so, this paper has proposed a simple, portable and experimentally-validated set of survey items to measure individual heterogeneity in universalism in both altruism and trust. In addition to our main elicitation tool, we have provided a shorter measurement module that is easy and fast to implement, yet maintains almost all of the explanatory power of the full universalism measure. Our measures of universalism also include components on domestic universalism, foreign universalism, and global universalism, each of which could in principle be leveraged by researchers who are interested in these specific contexts. We hence believe that this paper opens up the possibility for

more detailed or applied work on the role of universalism in economic decision making. In Enke et al. (2019), we take a first step in this direction by deploying our universalism measurement tool in a new seven-country survey to study the link between universalism and the structure of political ideology.

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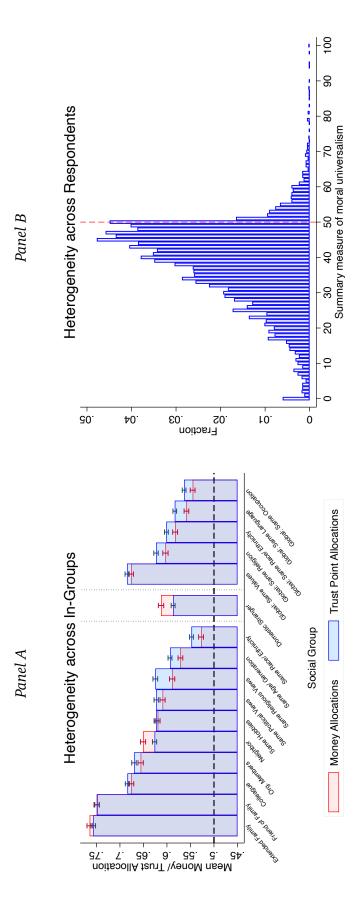
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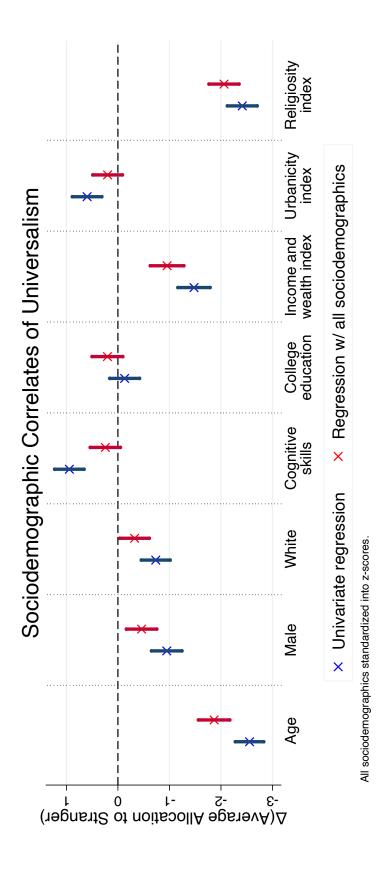
## **Tables and Figures**

# Variance Decomposition All Allocation Decisions O.24 O.36 O.31 Residual variation (Respondent x Social Group) variation Social Group-specific variation Respondent-specific variation

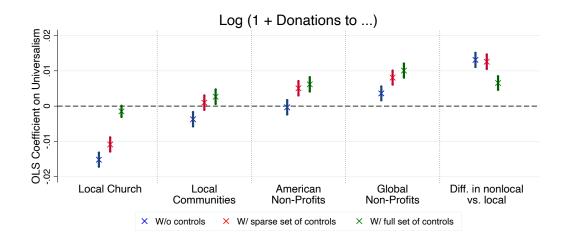
Figure 1: This figure presents the incremental  $\mathbb{R}^2$  for a series of stacked regressions of all 32 allocation decisions made by all 6,591 respondents in our survey on various fixed effects. That is, we stack all allocation decisions across both choice domains into a single column, regressing this column sequentially on respondent, social group, and respondent-times-social-group fixed effects. It shows that 31% of variation in the data can be explained by heterogeneity in respondents' average level of universalism, while 8% of the variance in the data can be attributed to heterogeneity in average universalism across social groups. Finally, 36% of the variation in the data can be explained by respondent-times-in-group fixed effects, i.e., by how individual respondents choose allocations specific to the given in-group, beyond what would be predicted by their average universalism level and the specific social group.

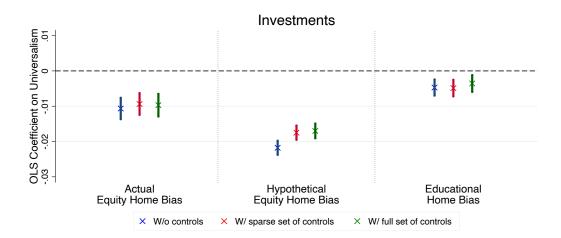


to a global stranger. Bars 12–16 show average allocations to a global in-group member vis-à-vis a global stranger. Each bar is composed of N=6,591 individuals. bars show average allocations to domestic in-groups in tradeoffs vis-à-vis a domestic stranger. The 11th bar shows the average allocation to a domestic stranger relative Figure 2: This figure presents heterogeneity in decision-making along two components of the variation in data from our universalism tasks. In Panel A, we present ingroup-specific variation: average allocations of money and trust points given to every social group across all subjects, along with 95% confidence intervals. The first ten In Panel B, we present respondent-specific variation: the distribution of the composite measure of moral universalism across our sample of the U.S. population. The amounts reflect allocations to random strangers, so that the measure is decreasing in in-group favoritism.



along with 95% confidence intervals. All sociodemographics are standardized into z-scores. Since moral universalism increases with allocation amounts to a stranger Figure 3: This figure presents OLS estimates from regressions of the composite measure of moral universalism on each of the given sociodemographic correlates, vis-à-vis an in-group member, negative coefficients in this figure represent a decrease in moral universalism given a one-standard-deviation increase in the given sociodemographic correlate. In our sample, one standard deviation in age is approximately 16.6 years. For the male indicator, one standard deviation is 0.4, and for the white indicator, one standard deviation is equal to 0.8.





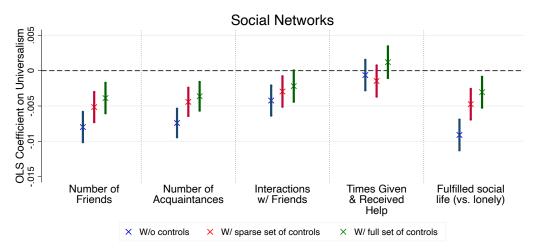


Figure 4: This figure presents OLS coefficients for the regression of a given outcome variable on the composite measure of moral universalism, along with 95% confidence intervals. All dependent variables are standardized into z-scores. Other than the first panel, the following outcome variables are in logs: (1) number of friends, (2) number of acquaintances, (3) interactions with friends, and (4) times given and received help. The sparse set of controls consists of age, gender, race, cognitive skill, and our composite economic index (of log net worth and log income). To these, the full set of controls adds an indicator for college education, urbanicity, and religiosity.

## **ONLINE APPENDIX**

## A Details on Measurement Tool and Validation

## A.1 Screenshots

In each row below, how would you split \$100 between a randomly-selected person who lives in the United States and the individual displayed on the right (who is part of a particular social group)?

The closer you drag the slider to one individual, the more money you allocate to that individual. Please assume all individuals below have the same income, all live in the United States, and would not find out that it was you who sent them the money.

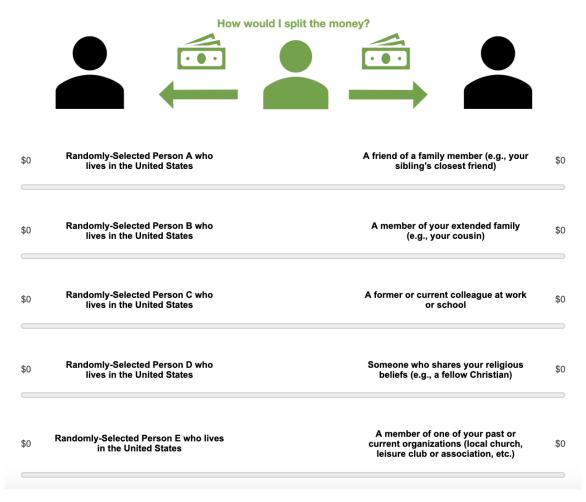


Figure 5: Example decision screen for domestic universalism in altruism. Subjects would see two of these screens consecutively, where five of the ten groups would be presented on each screen. Across all subjects, the order of the ten social groups was randomized, and whether all social groups appeared on the left or all appeared on the right was also randomized for any given choice domain. The layout for tasks eliciting global universalism in altruism is identical to that of domestic groups.

How would you split \$100 between a randomly-selected person who lives anywhere in the world and a randomly-selected person who lives in the United States?

The closer you drag the slider to one individual, the more money you allocate to that individual. Please assume both individuals below have the same income, and would not find out that it was you who sent them the money.

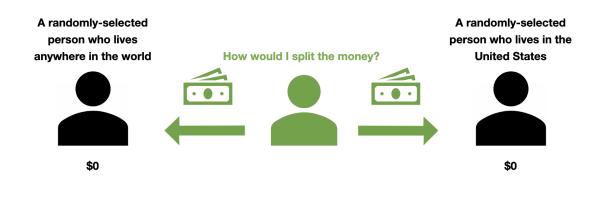


Figure 6: Example decision screen for foreign universalism in altruism. Across subjects, it was randomized whether the domestic social group appeared on the left or on the right. The layout for the task eliciting foreign universalism in *trust* is identical to this layout, with the exception of necessary changes to the instructions and to graphics, as consistent with the layout for trust tasks presented in Figure 7.

In each row below, how would you split 100 "trust points" between a randomly-selected person who lives in the United States, and the individual displayed on the right (who is part of a particular social group)?

The closer you drag the slider to one individual, the more you trust that individual, relative to the other individual. Please assume all of the individuals below live in the United States.

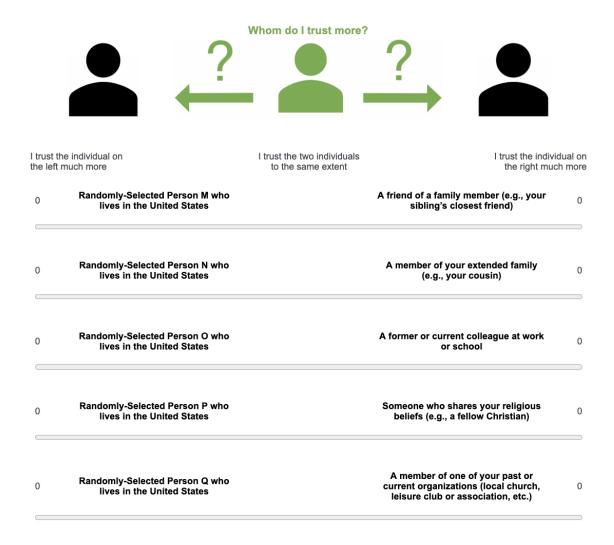


Figure 7: Example decision screen for domestic universalism in trust. Subjects would see two of these screens consecutively, where five of the ten groups would be presented on each screen. Across all subjects, the order of the ten social groups was randomized, and whether all social groups appeared on the left or all appeared on the right was also randomized for any given choice domain. The layout for tasks eliciting global universalism in trust is identical to that of domestic groups.

## A.2 Details on Ex-Ante Experimental Validation

## A.2.1 Universalism in Altruism

**Validation of Survey Items.** We validate our measure of universalism in altruism by financially-incentivizing our bystander dictator games. In a series of sessions conducted on Amazon MTurk over a one-week time horizon, N = 400 subjects completed two rounds of a condensed version of our survey that included only money allocation tasks.

For every subject, money allocations in each round of the two-part survey could come in one of two flavors: (i) hypothetical, and (ii) financially-incentivized. The goal was to compare decisions and resulting measurements within-subject and across the hypothetical and incentivized conditions. To obtain a bechmark value, a subset of subjects conducted the incentivized tasks twice, delivering an incentivized test-retest correlation.

To make financially incentivizing subjects feasible, money allocations in both conditions were played only with the following set of five groups: (i) same hobby, (ii) same age/ generation, (iii) same race or ethnicity, (iv) same political views, and (v) same religious views. In order to identify group membership and thus incentivize the measure, subjects were asked to provide answers to the following set of questions: (a) their favorite hobby<sup>6</sup>; (b) their age<sup>7</sup>; (c) ethnicity/ race; (d) informal political affiliation as either a Democrat, Republican, or Independent; and (e) religious denomination. We sampled AMT workers with the appropriate characteristics to serve as recipients in the financially-incentivized money allocation games.

**Logistics.** In the first stage, N = 145 subjects completed the hypothetical versions of our allocation tasks, while another N = 255 subjects completed the financially-incentivized versions. All subjects were informed at the beginning of this first stage of the survey that the survey would consist of two parts, and that they would receive an invitation to complete the second part of the survey one week after completing the first stage.

The N=145 subjects who first completed a hypothetical version of our money allocation tasks then completed the incentivized versions in the second stage. Of the N=255 subjects who first completed the incentivized versions, N=158 would complete the hypothetical counterparts in the second stage, and the remaining N=97 would repeat the incentivized condition. Of the 158 subjects randomly-assigned to complete the incentivized condition in the first stage and the hypothetical condition in the second stage, 146 (92.4%) completed both stages. Of the 145 who completed the hypothetical condition first and then the incentivized condition second, 127 (87.6%) completed both

<sup>&</sup>lt;sup>6</sup>The options here were: movies, TV series, video games, sports, outside recreational activities (canoeing, hiking), art, and music.

 $<sup>^7</sup>$ Subjects were asked to choose the decade they were born in; the options were "Before 1930", "1931 – 1940", "1941 – 1950", and so on so forth until "1991 – 2001".

stages. Finally, of the 97 subjects assigned to complete incentivized conditions in both stages, 79 (81.4%) completed both rounds. These stages were run on April 29th, 2019, and May 6th, 2019.

In order to incentivize the allocation tasks, subjects completing the incentivized condition were informed that 2.5% of study participants would be selected for payout. If selected, one of six decisions (the dictator game eliciting revealed altruism, plus five incentivized universalism tasks) would be randomly selected and implemented. That is, out of a separate set of MTurk Workers who completed elicitations of group memberships, some would be randomly selected to receive payment according to the financially-incentivized decisions of participants of our validation exercise. Subjects of the validation exercise were explained this process before making their decisions.

## A.2.2 Universalism in Trust

Our measure of trust universalism relies on qualitative questions, which cannot be incentivized. In order to validate this measure, we show that our direct measure of trust universalism correlates strongly with a structured, experimental game measure of trust.

In Amazon MTurk sessions, subjects in the United States were asked to play a "cheating game". They were asked to imagine another participant of the survey would be responsible for allocating \$200 between themselves and the subject. The hypothetical participant's decision, however, would be dictated by a random draw from a set of 201 cards, each one numbered with a different integer from 0–200. Specifically, the other, hypothetical participant would keep as much out of the \$200 as the number listed on the randomly-drawn card, and give the remaining amount of money to the subject.

Importantly, instructions clarified that the drawn card would only be observable to the other participant, and not to the experimenter or to the subject. The actual allocation of money would be determined by the hypothetical participants' *report*, thus mimicking cheating setups as in Fischbacher and Föllmi-Heusi (2013). Instructions emphasized that the other participant could cheat by reporting a higher number than was actually drawn and thus by keeping more of the \$200 amount than the game entitled them to.

Subjects were asked to imagine that the card drawn by the hypothetical participant contained the number "100", such that both the other participant and the subject should receive hypothetical \$100 if the hypothetical participant were completely honest. The task for the subject in the cheating game was twofold: (i) to predict the number reported by a randomly-selected person who lives in their own country, and (ii) predict which of two people would cheat more to the subject's disadvantage (and by how much) in a version of the game in which both a randomly-selected person from their country and a member of their in-group would play the cheating game with the subject (that is, each

draw their own card containing \$100, and each report their own numbers). To simplify the space of possible allocation pairs between the two participants, subjects were asked to imagine that the people on the other end of any cheating game would only ever cheat to the subject's disadvantage (i.e. only give the subject *less* than or equal to the even split of \$100 they were supposed to). Subjects were asked to assume that each of the hypothetical players had the same information about the subject's group membership as the subject had about the hypothetical players'.

A composite measure of our qualitative trust questions correlates positively with a composite measure of beliefs in the cheating game ( $\rho=0.60$ ). That is, those subjects who reported trusting members of their in-group relatively more than a randomly-selected person in our qualitative trust questions also reported beliefs consistent with members of their in-groups cheating relatively less than a randomly-selected person in the cheating game.

## A.2.3 Crowd-sourcing and Robustness to the choice of groups

Our measurement tool relies on a specific subset of social groups that is small relative to the universe of all candidate groups. To alleviate concerns about the sensitivity of both our tool and results to the particular set of social groups chosen, we followed a twofold approach: (i) we implemented a crowd-sourcing exercise to tie our hands in the selections process of the groups; (ii) we conducted a validation exercise with a substantially larger set of groups.

**Crowd-sourcing exercise.** We partitioned a list of 27 different domestic social groups into two broad categories: those groups people typically *interact* with (i.e., specific individuals you know, such as close family members), and those groups people typically do *not* interact with but have consciousness of kind or of a common set of characteristics (e.g., someone of your same race or ethnicity). From each of these two sets of groups, N = 200 subjects on Amazon MTurk were asked to select the five social groups people typically most identify with. We repeated this same exercise with an additional N = 200 subjects on Amazon MTurk, but with a set of 15 *global* social groups (where naturally the distinction in terms of interaction was not made).

From these two separate crowd-sourcing exercises, we selected five domestic social groups people typically identify with the most out of the *interaction* list, and five domestic social groups from the *non-interaction* list. We excluded "close family" and "close friends", as they lacked variation across respondents. We finally selected the five most-selected global social groups. Combined, these fifteen groups make up the domestic and global versions of our universalism measures.

**Validation exercise.** N = 300 U.S. MTurk Workers completed money allocation tasks with a larger selection of 25 domestic social groups and 15 global social groups.<sup>8</sup>

We construct measures of universalism that rely on these larger sets. The raw correlation coefficient between the domestic ten-group measure in our main sample and the expanded, domestic 25-group measure is  $\rho=0.96$ . Excluding the original ten social groups from the latter measure (i.e., correlating our main measurement with the measure involving only the 15 new social groups), the correlation coefficient is  $\rho=0.89$ .

For the global versions, the correlation between the 5-group measure in our main sample and the expanded measure with 15 groups is  $\rho=0.93$ . Excluding the five social groups included in the main survey from the larger universalism measure, the correlation coefficient between the five-group measure and the corresponding ten-group measure is  $\rho=0.84$ .

More granularly, we take the pairwise correlation between money allocations to all 25 domestic social groups. For example, we take the correlation between all allocations given to "Someone who lives in your local neighborhood" and all allocations given to "One of your close friends", and do this for all possible pairings of social groups (excluding all pairings of a social group with itself). Both the mean and median correlation coefficients for allocations to domestic social groups are  $\rho=0.29$ , while the minimum is  $\rho=0.08$  and the maximum is  $\rho=0.45$ . That is, higher allocations to one social group are always at least weakly correlated with higher allocations to any other social group.

For the foreign versions of the universalism measures, these statistics are  $\rho=0.42$  for both the mean and median,  $\rho=0.25$  for the minimum, and  $\rho=0.61$  for the maximum.

Lastly, we randomly generate universalism measures where we randomly draw groups from the superset of 25 domestic social groups and 15 global social groups to obtain measures based on ten domestic social groups and five global social groups. We randomly create a total of 2,500 such measures. The mean of all correlations between these 2,500 measures and the main measure formed from the 10 domestic social groups and 5 social groups in our main survey is  $\rho=0.93$ , while the minimum is  $\rho=0.85$ .

## A.3 List of Social Groups

Domestic social groups included in main survey. (i) A member of your extended family (e.g., your cousin); (ii) A member of one of your past or current organizations (local church, leisure club or association, etc.); (iii) Someone who lives in your local neighborhood; (iv) A friend of a family member (e.g., your sibling's closest friend); (v) A former or current colleague at work or school; (vi) Someone who shares your interests or hobbies (e.g., a fellow fan of the same sports team, or a fellow runner); (vii) Someone

<sup>&</sup>lt;sup>8</sup>For lists of these groups, see Appendix A.3.

who shares your religious beliefs (e.g., a fellow Christian); (viii) Someone of your same age/generation; (ix) Someone who shares your political views (e.g., a fellow left-winger, or a fellow right-winger, etc.); (x) Someone of your same race/ ethnicity (e.g., a fellow Hispanic person).

Global social groups included in main survey. (i) Someone who speaks your same language and lives anywhere in the world; (ii) Someone who shares your religious beliefs (e.g., a fellow Christian) and lives anywhere in the world; (iii) Someone of your same race/ ethnicity (e.g., a fellow Hispanic person) who lives anywhere in the world; (iv) Someone who shares your values and lives anywhere in the world; (v) Someone who shares your occupation/ profession and lives anywhere in the world.

## Additional domestic social groups included in validation exercise (Appendix A.2.3).

(i) A member of your close family (e.g., your sibling); (ii) One of your close friends; (iii) A friend of one of your close friends; (iv) One of your acquaintances (who is also not a friend); (v) A member of your distant family (e.g., a cousin of your parent); (vi) One of your distant friends; (vii) Someone who shares your values; (viii) Someone of your same occupation/ profession; (ix) Someone who speaks your same language; (x) Someone of your same social class (e.g., a fellow working class member); (xi) Someone of your same gender; (xii) Someone who resides in your same city; (xiii) Someone who resides in your same state; (xiv) Someone of your same sexual orientation; (xv) Someone of your same educational attainment.

## Additional global social groups included in validation exercise (Appendix A.2.3).

(i) Someone who shares your interests or hobbies (e.g., a fellow fan of the same sports team, or a fellow runner) and lives anywhere in the world; (ii) Someone of your same gender who lives anywhere in the world; (iii) Someone of your same age/ generation who lives anywhere in the world; (iv) Someone who shares your political views (e.g., a fellow left-winger, or a fellow right-winger, etc.) and lives anywhere in the world; (v) Someone of your same social class (e.g., a fellow working class person, or middle class individual) who lives anywhere in the world; (vi) Someone of your same educational attainment who lives anywhere in the world; (vii) Someone of your same sexual orientation who lives anywhere in the world; (viii) Someone who lives in the same continent as you, and not in your same country; (ix) Someone who lives in a country that is an international ally to your country; (x) Someone who lives in a country that is a member state of the same international organization as your own country's (e.g., NATO, European Union, etc.).

## **B** Short Measurement Module

In this section, we present a three-group version of our measurement tool that can be implemented in surveys where time is a constraint. In Section 4, we showed a significant portion of variation in our allocation tasks is driven by respondent rather than social group fixed effects. We now additionally show that allocations across our universalism tasks are highly consistent across decision domains and in-groups and that, in turn, a smaller set of social groups is sufficient to capture a significant portion of the information elicited by our full measurement tool.

To highlight this degree of consistency, from the superset of all social groups in our survey we take all combinations of three groups consisting of one domestic social group, one global social group, and the foreign vs. domestic decision. For each of these 50 combinations of groups and for both altruism and trust, we calculate the corresponding universalism measure as described in Section 2.2.

We compute each of these alternative measurements and correlate them with our full measures. Figure 8 plots these correlation coefficients for the case of universalism in altruism. Even the "worst" of the alternative, short versions of our measurement tool performs well relative to the full measure, with a correlation coefficient of  $\rho=0.86$ . The results are identical for the case of universalism in trust.

We emphasize again that *any* combination of one domestic, one foreign, and one global universalism question will represent a meaningful proxy for overall universalism. Thus, researchers may wish to select in-groups based on their interests and the topic of their study. Still, in our data, the largest of these correlation coefficients ( $\rho = 0.94$ ) corresponds to the following combination of groups that make up the short module for universalism in altruism:

## Short module for universalism in altruism.

- 1. Domestic: Split \$100 between a member of one of your past or current organizations (local church, leisure club or association, etc.) and randomly-selected U.S. person
- 2. Foreign: Split \$100 between randomly-selected U.S. person and randomly-selected person from anywhere in world
- 3. Global: Split \$100 between someone who speaks your same language and lives anywhere in the world and randomly-selected person from anywhere in world

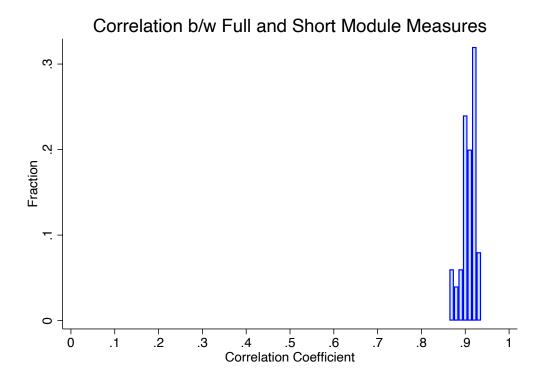


Figure 8: Distribution of correlation coefficients for all possible variants of a modular version of our measurement tool for universalism in altruism. Coefficients present the correlation between the given short measure and our full survey measure. The minimum of these correlation coefficients is  $\rho = 0.86$ , while the largest is  $\rho = 0.94$ .

For universalism in trust, the recommended short module (for which the correlation coefficient with the full measure of universalim in trust is  $\rho = 0.93$ ) is:

## Short module for universalism in trust.

- 1. Domestic: Split 100 trust points between a member of one of your past or current organizations (local church, leisure club or association, etc.) and randomly-selected U.S. person
- 2. Foreign: Split 100 trust points between randomly-selected U.S. person and randomly-selected person from anywhere in world
- 3. Global: Split 100 trust points between someone of your same race/ethnicity who lives anywhere in the world and randomly-selected person from anywhere in world

## C Additional Details on Survey Design and Logistics

## C.1 Sample Characteristics of *Dynata* Survey

Category	Population (%)	Study Sample (%)	
		Full	Representative
Gender			
Male	49	40.5	48.5
Female	51	59.5	51.5
Age			
18–29	21	12.1	21.8
30–39	16	19.5	16.8
40–49	16	19.1	16.8
50–59	17	23.3	16.4
60–69	14	5.7	14.8
≥70	16	20.3	13.3
Income			
Below 15,000	11	5.2	16.7
15,000–24,999	9	6.0	9.2
25,000–34,999	9	8.3	8.9
35,000–49,999	12	12.0	10.7
50,000–74,999	17	21.9	17.1
75,000–99,999	13	15.1	13.2
100,000–149,999	15	16.6	15.3
150,000–199,999	7	8.0	6.3
200,000 or more	7	7.1	2.5
Ancestry			
White	63	79.1	62.7
African-American	17	8.1	17.2
Hispanic	12	5.7	12.0
Asian	5	4.8	5.0
Other	3	2.4	3.1
Education			
No high school	11	0.9	6.1
High school	29	13.6	29.4
Some college	29	28.9	28.0
Bachelor's degree or higher	31	56.6	36.4
<b>Employment Status (for those at most 65)</b>			

Employed full-time	67	70.7	67.0
Not employed full-time	33	29.3	33.0

Note: Income ranges are in annual amounts of USD.

## C.2 Description of Main Survey Variables

**Domestic universalism in altruism.** Universalism with respect to altruism (preferences), measured through bystander dictator games over the local currency analogue of hypothetical \$100, between a domestic member of one's in-groups relative to a domestic stranger. The measure averages the ten corresponding money allocation decisions.

**Foreign universalism in altruism.** Universalism with respect to altruism (preferences), measured through a bystander dictator game over the local currency analogue of hypothetical \$100 between a domestic stranger and a global stranger.

**Global universalism in altruism.** Universalism with respect to altruism (preferences), measured through bystander dictator games over the local currency analogue of hypothetical \$100, between a global member of one's in-groups relative to a global stranger. The measure averages the five corresponding money allocation decisions.

**Summary measure of universalism in altruism.** Unweighted average of domestic universalism in altruism, foreign universalism in altruism, and global universalism in altruism.

**Domestic universalism in trust.** Trust analogue of domestic universalism in altruism, where the bystander dictator game is instead over 100 trust points.

**Foreign universalism in trust.** Trust analogue of foreign universalism in altruism, where the bystander dictator game is instead over 100 trust points.

**Global universalism in trust.** Trust analogue of global universalism in altruism, where the bystander dictator game is instead over 100 trust points.

**Summary measure of universalism in trust.** Trust analogue of the summary measure of universalism in altruism. That is, unweighted average of domestic universalism in trust, foreign universalism in trust, and global universalism in trust.

**Composite measure of universalism.** Unweighted average of (i) summary measure of universalism in altruism and (ii) summary measure of universalism in trust.

**Dictator game behavior (revealed altruism).** Altruism as elicited through a standard dictator game over \$100 between the self and a domestic stranger.

**Generalized trust.** Generalized trust in others as elicited through an allocation of trust points on a scale from 0 to 100. Respondents were prompted to consider their trust in a domestic stranger, where 0 meant that they believe they "cannot trust a randomly-selected person very much", and 100 meant they believe "a randomly-selected person can in general be trusted a great deal."

**Equity-efficiency preferences.** Elicitation of preferences for efficiency over equity (Fisman et al., 2017), as given by a bystander dictator game between two randomly-selected people from their country of residence, in which the most unequal split of money maximizes total payoffs. The measure captures how much a subject deviates from an equal, 50:50 split of the money.

**Communal moral values.** Respondent's preference for communal moral values, as elicited with one loyalty and one fairness item of Haidt's Moral Foundations Questionnaire. Specifically, the difference between subject's rating on a scale from 0 (not at all relevant) to 5 (extremely relevant) regarding the relevance of "Whether or not someone showed a lack of loyalty" and "Whether or not some people were treated differently than others" in determining whether something is right or wrong.

**Religiosity Index.** Composite measure from a principal component analysis of: (i) self-described religiosity on a scale from 0 (not at all religious) to 10 (very religious); (ii) church attendance on a scale from 0 to 5; and (iii) an indicator for atheism, agnosticism, or no religion. Standardized into z-scores.

**Income and Wealth Index.** Composite measure from a principal component analysis of: (i) log income (from free-form text entry), and (ii) log net worth (from free-form text entry). Standardized into z-scores.

**Urbanicity Index.** Composite measure from a principal component analysis of: (i) the population density in respondent's zip code, and (ii) respondent's neighborhood size on a scale from 0 to 9. Standardized into z-scores.

**Educational attainment.** Respondent's educational attainment. The four educational categories were: (i) no high school, (ii) high school, (iii) some college or vocational training, (iv) bachelor's degree or higher.

**College-educated indicator.** Indicator for a college education, from the educational attainment variable.

**Cognitive skills.** Respondent's score on a Raven's Progressive Matrices IQ test.

**Donation amounts.** Total log dollar amounts given over the past twelve months by each respondent to the following four causes, respectively: (i) Local church or other local religious organizations; (ii) Local communities and groups (e.g., local firefighters, schools, libraries, and city-sponsored functions), excluding local churches; (iii) Non-profit organizations that work towards a better life for people in America in general (e.g., Feeding America); and (iv) Non-profit organizations that work towards a better life for people around the world (e.g., United Way Worldwide).

**Difference in nonlocal versus local donation amounts.** Log dollar amount of nonlocal donations (those donations to non-profits focused on the United States as a whole or the entire world) minus the log dollar amount of local donations (those donations to local churches and local communities).

**Actual home bias.** Subjects were asked to estimate the actual total dollar amount of dollars invested in both domestic (based within-the-US) and foreign (based outside-the-US) stocks in their own equity portfolio(s). The proportion of their total stock investments made up by domestic stocks made up each subject's degree of actual home bias.

**Hypothetical home bias.** Respondent's allocation (out of \$100) to stocks of a domestic manufacturer relative to a foreign manufacturer. In forming these hypothetical portfolios, subjects were told to assume none of their investments would be taxed.

**Educational home bias.** Subject's response to the following prompt: "Suppose you have a child that asks you for advice. Your child is undecided between attending (a) a local college or (b) a college that is geographically distant but ranked slightly higher. On a scale from 0 to 10, how strongly would you advise your child to attend either college?", where 0 represented "Would definitely advise to attend the local college", and 10 represented "Would definitely advise to attend the distant college".

**Number of friends.** Respondent's estimate of the number of people they consider to be friends, defined in the survey as those "individuals with whom you feel mutual bonds of affinity and with whom you would feel comfortable sharing personal information".

**Number of acquaintances.** Respondent's estimate of the number of people they consider to be acquaintances, defined in the survey as those "individuals you know and with whom you would feel comfortable spending some time, but only for more superficial or professional purposes."

**Interactions with friends.** Respondent's report on how often they are able to spend time with one of their friends during a typical week, elicited by asking respondents: "Thinking about a typical week, approximately how often per week do you get to spend time with one of your friends?"

Times given and received help. Combination of the aproximate number of times over the month prior to completing the survey that a respondent "relied on someone you know from your local community for help (e.g., assisting with some household chore, watching after a child, etc.)" and in turn "helped someone you know from your local community (e.g., assisting them with some household chore, watching after a child, etc.)".

**Quality of social life.** Respondent's self-description of the quality of their social life on a scale from 0 ("I feel rather lonely") to 10 ("I have a fulfilling social life").

# D Additional Analyses on the Structure of Universalism

### D.1 Consistency in Universalism and the Existence of Types

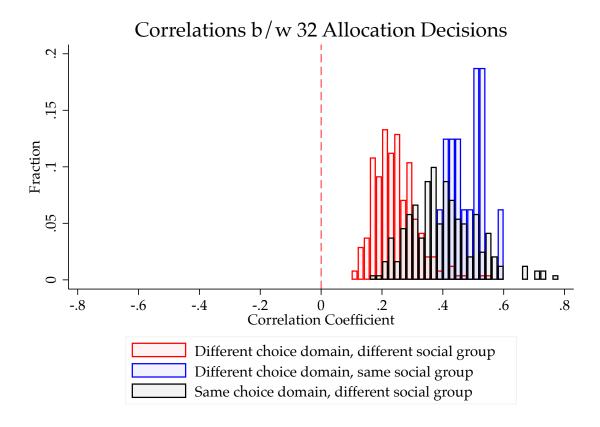


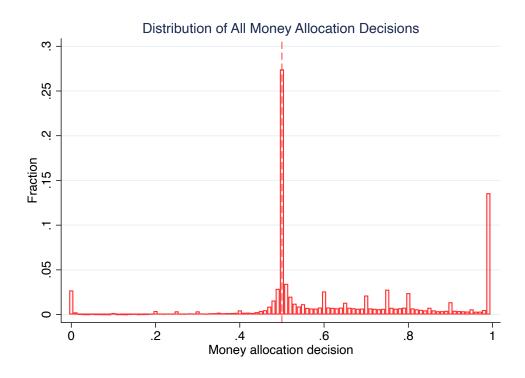
Figure 9: This figure presents the distribution of all pairwise correlation coefficients for the set of all money and trust point allocations in our survey. In red, we plot the correlation coefficients for decisions involving different choice domains (altruism vs. trust) *and* a different social group. In blue, the correlation coefficients for decisions involving the same social group but a different choice domain. Finally, in black we plot the correlation coefficients involving the same choice domain, but different social groups.

Table 2: Correlations between Universalism Measures

	(1)								
	Altruism: domestic Altruism: global Altruism: foreign Altruism: all Trust: domestic Trust: global Trust: foreign Trust: all Summary	Altruism: global	Altruism: foreign	Altruism: all	Trust: domestic	Trust: global	Trust: foreign	Trust: all	Summary
Altruism: domestic	1								
Altruism: global	$0.664^{***}$	1							
Altruism: foreign	0.320***	$0.441^{***}$	1						
Altruism: all	0.767***	0.838***	0.798***	1					
Trust: domestic	0.543***	0.464***	$0.235^{***}$	0.487***	1				
Trust: global	0.459***	0.559***	$0.268^{***}$	$0.511^{***}$	$0.732^{***}$	1			
Trust: foreign	0.227***	0.306***	0.404***	0.405***	0.387***	0.459***	1		
Trust: all	0.479***	$0.526^{***}$	0.378***	0.563***	$0.825^{***}$	0.863***	0.788***	1	
Summary	0.722***	0.790***	0.691***	$0.910^{***}$	$0.720^{***}$	0.754***	$0.650^{***}$	0.855***	1

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

# **D.2** Histograms of Allocation Decisions



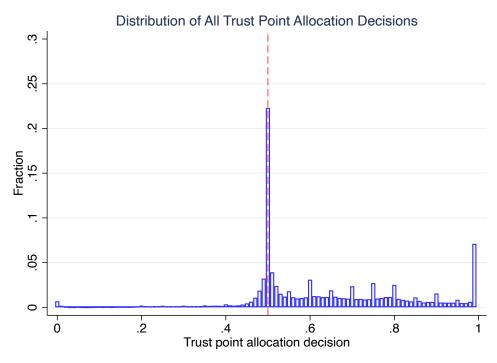
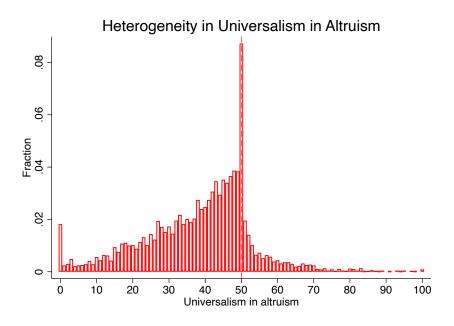


Figure 10: Distributions of all money and trust point allocations to in-group members in our full sample.

# **E** Additional Analyses on Heterogeneity and Correlates

## E.1 Heterogeneity



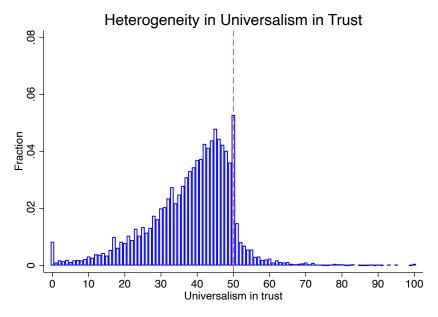


Figure 11: Distributions of universalism in altruism and in trust across our sample of the U.S. population. The measures averages each subject's money allocation and trust point decisions, respectively, across a variety of social groups. These average amounts reflect allocations to random strangers, so that the measure is decreasing in subjects' in-group favoritism. Data underlying figure is from the full study sample.

# E.2 Sociodemographics

Table 3: Sociodemographic correlates of universalism

		D	ependent	variable:	Composite	measure (	of moral u	Dependent variable: Composite measure of moral universalism	u	
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
Age	-0.15*** (0.01)								-0.11*** (0.01)	-0.11*** (0.01)
Male	-0.92*** (0.31)								-0.92*** (0.31)	-0.94*** (0.31)
White		-1.80*** (0.35)							-0.80** (0.36)	-0.80** (0.36)
Cognitive skills [0-5]			0.77***						$0.22^{*}$ (0.12)	0.20 (0.12)
College-educated				-0.26 (0.30)		0.69**				0.41 (0.31)
Income and Wealth Index (z-score)					-1.48*** (0.16)	-1.59*** (0.17)			-0.90*** (0.16)	-0.96*** (0.17)
Urbanicity Index (z-score)							0.60***		0.23 (0.15)	0.20 (0.15)
Religiosity Index (z-score)								-2.42*** (0.15)	-2.06*** (0.15)	-2.07*** (0.15)
Observations $R^2$	6591 0.05	6591 0.00	6591 0.01	6591 0.00	6591 0.02	6591 0.02	6491 0.00	6591 0.04	6491 0.08	6491 0.08

trust. In columns 7, 9, and 10, we have a smaller number of observations as population densities could not be obtained for all subjects. Notes. OLS estimates, robust standard errors in parentheses. Each observation is one subject. The dependent variable is the composite measure of moral universalism, corresponding to the average of all allocation decisions across social groups and across both altruism and  $^*$   $p < 0.10, ^{**}$   $p < 0.05, ^{***}$  p < 0.01.

Table 4: Sociodemographic correlates of universalism in altruism

		Del	vendent va	ıriable: M	Dependent variable: Moral universalism w.r.t. altruism, all groups	rsalism w.	r.t. altruis	m, all gro	sdr	
	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
Age	-0.19*** (0.01)								-0.15*** (0.01)	-0.15*** (0.01)
Male	-1.27*** (0.39)								-1.24*** (0.39)	-1.26*** (0.39)
White		-2.04** (0.44)							-0.75* (0.45)	-0.75* (0.45)
Cognitive skills [0-5]			0.97***						$0.30^{*}$ (0.15)	$0.28^*$ (0.16)
College-educated				-0.16 (0.37)		0.91**				0.58 (0.39)
Income and Wealth Index (z-score)					-1.63** (0.19)	-1.77*** (0.21)			-0.92*** (0.19)	-1.00*** (0.20)
Urbanicity Index (z-score)							0.65***		0.25 (0.18)	0.20 (0.19)
Religiosity Index (z-score)								-2.42*** (0.19)	-1.95*** (0.19)	-1.96*** (0.19)
Observations $R^2$	6591 0.05	6591 0.00	6591 0.01	6591 0.00	6591 0.01	6591 0.01	6491 0.00	6591 0.03	6491 0.07	6491 0.07

moral universalism with respect to altruism and all groups, corresponding to the average of all allocation decisions across social groups and across altruism. In columns 7, 9, and 10, we have a smaller number of observations as population densities could not be obtained Notes. OLS estimates, robust standard errors in parentheses. Each observation is one subject. The dependent variable is the measure of for all subjects. \*  $p < 0.10, \, ^{**}$   $p < 0.05, \, ^{***}$  p < 0.01.

Table 5: Sociodemographic correlates of universalism in trust

			Dependen	t variable	: Moral ur	ıiversalism	w.r.t. tru	Dependent variable: Moral universalism w.r.t. trust, all groups	sa	
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
Age	-0.11*** (0.01)								-0.074*** (0.01)	-0.074*** (0.01)
Male	-0.57* (0.32)								$-0.60^{*}$ (0.31)	$-0.61^{*}$ (0.31)
White		-1.56*** (0.37)							-0.85** (0.38)	-0.85** (0.38)
Cognitive skills [0-5]			0.57***						0.13 (0.13)	0.12 (0.13)
College-educated				-0.37		0.48 (0.32)				0.24 (0.32)
Income and Wealth Index (z-score)					-1.33*** (0.16)	-1.40*** (0.17)			-0.89*** (0.17)	-0.92*** (0.17)
Urbanicity Index (z-score)							0.54***		0.22 (0.15)	0.20 (0.15)
Religiosity Index (z-score)								-2.42*** (0.15)	-2.18*** (0.15)	-2.18*** (0.15)
Observations $\mathbb{R}^2$	6591 0.03	6591 0.00	6591 0.00	6591 0.00	6591 0.01	6591 0.01	6491 0.00	6591 0.04	6491 0.06	6491 0.06

moral universalism with respect to trust and all groups, corresponding to the average of all allocation decisions across social groups and across trust. In columns 7, 9, and 10, we have a smaller number of observations as population densities could not be obtained for all subjects. Notes. OLS estimates, robust standard errors in parentheses. Each observation is one subject. The dependent variable is the measure of  $^{*}$   $p < 0.10, ^{**}$   $p < 0.05, ^{***}$  p < 0.01.

# E.3 Correlation b/w Universalism and Other Social Attitudes

Table 6: Correlations between Universalism and Social Attitudes

Social preference	Universalism w.r.t	Social group(s) considered	ρ
Dictator game behavior	Altruism	All	0.305
Dictator game behavior	Altruism	Domestic	0.349
Dictator game behavior	Altruism	Foreign	0.179
Dictator game behavior	Altruism	Global	0.237
Dictator game behavior	Composite Summary	All	0.287
Dictator game behavior	Trust	All	0.190
Dictator game behavior	Trust	Domestic	0.216
Dictator game behavior	Trust	Foreign	0.0953
Dictator game behavior	Trust	Global	0.175
Generalized trust	Altruism	All	0.0871
Generalized trust	Altruism	Domestic	0.0874
Generalized trust	Altruism	Foreign	0.0510
Generalized trust	Altruism	Global	0.0794
Generalized trust	Composite Summary	All	0.0996
Generalized trust	Trust	All	0.0895
Generalized trust	Trust	Domestic	0.0878
Generalized trust	Trust	Foreign	0.0543
Generalized trust	Trust	Global	0.0840
Preference for efficiency over inequity	Altruism	All	-0.0557
Preference for efficiency over inequity	Altruism	Domestic	-0.0512
Preference for efficiency over inequity	Altruism	Foreign	-0.0408
Preference for efficiency over inequity	Altruism	Global	-0.0440
Preference for efficiency over inequity	Composite Summary	All	-0.0677
Preference for efficiency over inequity	Trust	All	-0.0652
Preference for efficiency over inequity	Trust	Domestic	-0.0298
Preference for efficiency over inequity	Trust	Foreign	-0.0567
Preference for efficiency over inequity	Trust	Global	-0.0727
Rel. importance of communal moral values	Altruism	All	-0.157
Rel. importance of communal moral values	Altruism	Domestic	-0.0809
Rel. importance of communal moral values	Altruism	Foreign	-0.134
Rel. importance of communal moral values	Altruism	Global	-0.155
Rel. importance of communal moral values	Composite Summary	All	-0.171
Rel. importance of communal moral values	Trust	All	-0.145
Rel. importance of communal moral values	Trust	Domestic	-0.0898
Rel. importance of communal moral values	Trust	Foreign	-0.147
Rel. importance of communal moral values	Trust	Global	-0.112

Notes. See Appendix C.2 for details on the construction of the social attitudes variables.

- F Additional Analyses on Economic Behaviors and Outcomes
- F.1 Tabular presentation of results: Summary measure of universalism

Table 7: Universalism and behaviors / outcomes

						Depe	ndent variab	ile: Log (1+	Dependent variable: Log (1+Donations to)	(,					
	]	Local Church	'n	Local	al Communities		Ame	American Non-Profits	rofits		Global Non-Profits	ofits	Diff. ir	Diff. in nonlocal vs. local	. local
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)
Composite universalism	-0.015*** (0.00)	-0.011*** (0.00)	-0.0015* (0.00)	-0.0037*** (0.00)	0.00098	0.0027**	-0.00033	0.0051***	0.0062***	0.0036***	0.0081***	0.010*** (0.00)	0.013***	0.013***	0.0065***
Age		0.0093***	0.0048***		0.0062***	0.0054***		0.0097***	0.0092***		0.0068***	0.0062***		-0.0023*** (0.00)	0.00085 (0.00)
Male		0.043*	$0.11^{***}$ (0.02)		0.033 (0.03)	0.036 (0.02)		0.035 (0.02)	0.028 (0.02)		0.091*** (0.03)	$0.091^{***}$ (0.02)		0.011 (0.03)	-0.046* (0.02)
Cognitive skills [0-5]		-0.016 (0.01)	$0.020^{***}$ (0.01)		-0.0039 (0.01)	-0.0054 (0.01)		0.021**	0.014 (0.01)		0.0043 (0.01)	0.0032 (0.01)		0.013 (0.01)	-0.016* (0.01)
Income and Wealth Index (z-score)		$0.16^{***}$ (0.01)	$0.11^{***}$ (0.01)		$0.25^{***}$ (0.01)	$0.22^{***}$ (0.01)		0.26***	$0.21^{***}$ (0.01)		0.23***	0.19***		0.0088 (0.01)	0.017 (0.01)
African-American		0.28***	0.023 (0.04)		-0.088** (0.04)	-0.12*** (0.04)		0.039 (0.04)	-0.030 (0.04)		0.041 (0.04)	-0.044 (0.04)		-0.15*** (0.04)	-0.031 (0.04)
Native American		0.049 (0.13)	0.079 (0.11)		0.16 (0.13)	0.18 (0.13)		0.20 (0.14)	$0.23^{*}$ (0.13)		0.088 (0.13)	0.12 (0.13)		0.028 (0.13)	0.052 (0.12)
Asian		0.043 (0.05)	0.048 (0.04)		-0.082 (0.06)	-0.11** (0.06)		0.032 (0.06)	-0.066		0.17***	0.091 (0.06)		0.083	0.011 (0.06)
Hispanic		0.061 (0.05)	-0.059 (0.04)		-0.13*** (0.05)	-0.14*** (0.05)		-0.028 (0.05)	-0.076 (0.05)		-0.019 (0.05)	-0.068		-0.034 (0.05)	0.0058 (0.05)
Other non-white		0.085	0.065 (0.07)		0.11 (0.10)	0.096 (0.10)		$0.18^{*}$ (0.10)	0.15 (0.10)		0.082 (0.10)	0.062 (0.10)		0.011 (0.09)	0.012 (0.08)
College-educated			0.16***			0.21*** (0.02)			0.27*** (0.02)			0.21*** (0.02)			0.014 (0.02)
Urbanicity Index (z-score)			-0.0026 (0.01)			-0.026** (0.01)			0.066***			0.061*** (0.01)			0.083*** (0.01)
Religiosity Index (z-score)			0.65***			0.11***			0.094***			0.14***			-0.41*** (0.01)
Observations $R^2$	6591 0.03	6591 0.09	6491 0.48	6591	6591 0.09	6491 0.11	6591 0.00	6591 0.11	6491 0.14	6591 0.00	6591 0.08	6491	6591 0.02	6591 0.03	6491 0.19

Notes. OLS estimates, robust standard errors in parentheses. Each observation is one subject. The independent variable is our composite measure of universalism, which averages all decisions across all social groups and across both altruism and trust. All dependent variables are in logs, and then standardized into z-scores.\* p < 0.05, \*\*\* p < 0.05, \*\*\* p < 0.01.

Table 8: Universalism and behaviors / outcomes

							Depe	Dependent variable:	e:						
	1	No. of friends		No. 6	No. of acquaintances	ıces	Intera	Interaction w/ friends	spu	Times r	Times rec'd and given help	en help	Ful	Fulfilled social life	fe
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)
Composite universalism	-0.0080*** (0.00)	-0.0052*** (0.00)	-0.0039***	-0.0074*** (0.00)	-0.0044*** (0.00)	-0.0036*** (0.00)	-0.0042*** (0.00)	-0.0029*** (0.00)	-0.0022* (0.00)	-0.00062 (0.00)	-0.0015 (0.00)	0.0012	-0.0091*** (0.00)	-0.0047*** (0.00)	-0.0030*** (0.00)
Age		0.0028***	0.0020**		0.0041***	0.0034***		-0.00020 (0.00)	-0.00062 (0.00)		-0.0043*** (0.00)	-0.0055*** (0.00)		0.0074***	0.0064***
Male		0.028 (0.03)	0.031 (0.03)		0.0069	0.0065 (0.03)		$0.11^{***}$ (0.03)	0.12***		-0.033 (0.03)	-0.0078 (0.03)		-0.028 (0.03)	-0.018 (0.02)
Cognitive skills [0-5]		0.026*** (0.01)	0.025**		0.091*** (0.01)	0.084***		-0.021** (0.01)	-0.016 (0.01)		-0.0042 (0.01)	0.0076 (0.01)		-0.028*** (0.01)	-0.024** (0.01)
Income and Wealth Index (z-score)		0.17***	0.13***		0.19***	0.14*** (0.02)		0.062*** (0.01)	0.047***		0.051*** (0.01)	0.041***		$0.21^{***}$ (0.02)	0.18*** (0.02)
African-American		-0.35*** (0.05)	-0.40*** (0.05)		-0.42*** (0.04)	-0.45*** (0.04)		-0.13*** (0.05)	-0.16*** (0.05)		0.040 (0.05)	-0.0052 (0.05)		$0.10^{**}$ (0.05)	0.044 (0.05)
Native American		0.031 (0.17)	0.048 (0.16)		-0.064 (0.17)	-0.100 (0.17)		-0.025 (0.19)	-0.0099 (0.19)		0.025 (0.16)	0.051 (0.16)		-0.13 (0.17)	-0.13 (0.16)
Asian		0.043 (0.06)	-0.019 (0.06)		-0.19*** (0.06)	-0.25*** (0.06)		-0.17*** (0.06)	-0.19*** (0.06)		-0.28*** (0.05)	-0.23*** (0.05)		0.0070 (0.05)	-0.035 (0.05)
Hispanic		-0.097* (0.05)	-0.12** (0.05)		-0.18*** (0.05)	-0.20*** (0.05)		-0.018 (0.05)	-0.034 (0.05)		-0.013 (0.05)	-0.011 (0.06)		$0.12^{**}$ (0.05)	0.092* (0.05)
Other non-white		-0.018 (0.11)	-0.042 (0.11)		0.031 (0.11)	0.0097 (0.11)		0.034 (0.10)	0.0061 (0.10)		0.23**	$0.25^{**}$ (0.11)		-0.10 (0.09)	-0.14* (0.08)
College-educated			0.25***			0.28***			0.074***			0.048*			0.16***
Urbanicity Index (z-score)			0.024*			-0.00026 (0.01)			0.0085 (0.01)			-0.057*** (0.01)			0.026** (0.01)
Religiosity Index (z-score)			$0.12^{***}$ (0.01)			0.086***			0.073***			0.17***			0.15***
Observations $\mathbb{R}^2$	6591 0.01	6591 0.06	6491	6591 0.01	6591	6491	6591 0.00	6591	6491 0.02	6591 0.00	6591 0.01	6491	6591 0.01	6591 0.08	6491

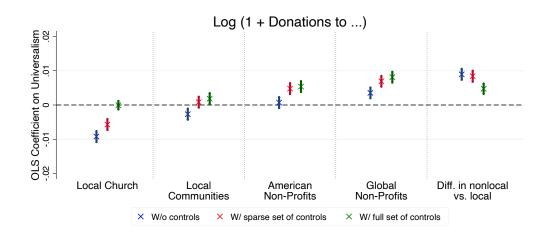
Notes. OLS estimates, robust standard errors in parentheses. Each observation is one subject. The independent variable is our composite measure of universalism, which averages all decisions across all social groups and across both altruism and trust. Number of friends, number of acquaintances, interactions with friends, and times received and given help are all in logs. All dependent variables are standardized into z-scores. \* p < 0.10, \*\* p < 0.05, \*\* p < 0.01.

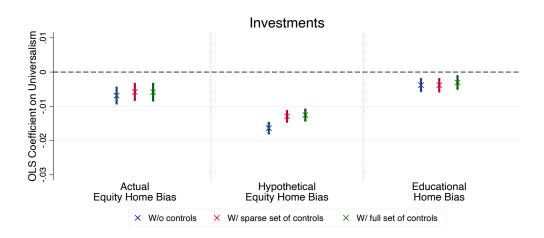
Table 9: Universalism and behaviors / outcomes

				Дер	Dependent variable:	able:			
	A	Actual home bias	ias	Hypot	Hypothetical home bias	e bias	Educa	Educational Home Bias	Bias
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
Composite universalism	-0.011*** (0.00)	-0.0094*** (0.00)	-0.0097*** (0.00)	-0.022*** (0.00)	-0.017*** (0.00)	-0.017*** (0.00)	-0.0047*** (0.00)	-0.0049*** (0.00)	-0.0036***
Age		0.0056***	0.0056***		0.013***	0.013***		0.0011 (0.00)	0.00057 (0.00)
Male		-0.0030 (0.04)	0.0017 (0.04)		-0.035 (0.02)	-0.028 (0.02)		0.019 (0.03)	$0.044^*$ (0.03)
Cognitive skills [0-5]		0.015 (0.02)	0.015 (0.02)		-0.020** (0.01)	-0.015 (0.01)		-0.0088 (0.01)	0.0058 (0.01)
Income and Wealth Index (z-score)		-0.040 (0.04)	-0.012 (0.04)		-0.0028 (0.01)	0.0049 (0.01)		-0.089*** (0.01)	-0.051*** (0.01)
African-American		-0.11 (0.11)	-0.096 (0.11)		-0.30*** (0.05)	-0.29*** (0.05)		-0.1 <i>7</i> *** (0.05)	-0.15*** (0.05)
Native American		-0.044 (0.26)	0.094 (0.24)		-0.068 (0.15)	-0.084 (0.15)		0.036 (0.18)	-0.0091 (0.17)
Asian		0.038 (0.08)	0.074 (0.08)		-0.18*** (0.06)	-0.15** (0.06)		-0.17*** (0.06)	-0.055 (0.06)
Hispanic		0.057 (0.10)	0.057 (0.10)		-0.013 (0.05)	-0.0015 (0.05)		-0.13** (0.06)	-0.095 (0.06)
Other non-white		0.14 (0.13)	0.14 (0.12)		-0.058 (0.10)	-0.055 (0.10)		-0.12 (0.10)	-0.050 (0.10)
College-educated			-0.15*** (0.05)			-0.045* (0.03)			-0.25*** (0.03)
Urbanicity Index (z-score)			-0.018 (0.02)			-0.033*** (0.01)			-0.081*** (0.01)
Religiosity Index (z-score)			-0.033 (0.02)			0.034***			0.045***
Observations $R^2$	2908 0.02	2908 0.03	2871 0.03	6591 0.07	6591 0.13	6491 0.13	6591 0.00	6591 0.01	6491 0.04

*Notes.* OLS estimates, robust standard errors in parentheses. Each observation is one subject. The independent variable is our composite measure of universalism, which averages all decisions across all social groups and across both altruism and trust. All dependent variables are standardized into z-scores.  $^*$  p < 0.00, \*\*\* p < 0.05. \*\*\* p < 0.00.

#### F.2 Universalism in Altruism and Universalism in Trust





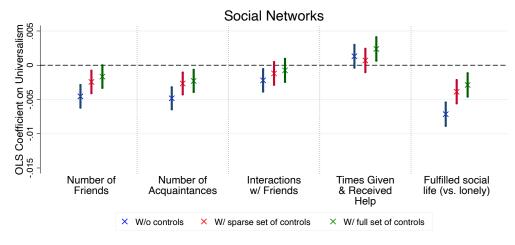
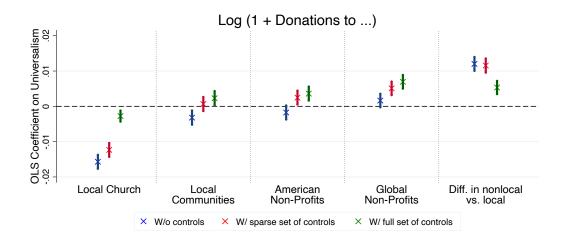
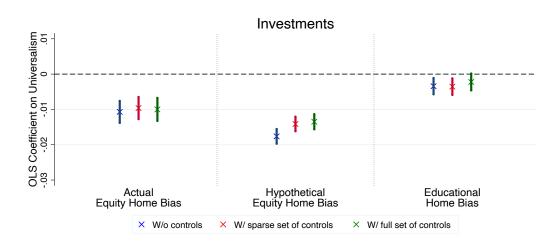


Figure 12: This figure presents OLS coefficients for the regression of the given outcome variable on our measure of universalism w.r.t. altruism, along with 95% confidence intervals. Other than the first panel, the following outcome variables are in logs: (1) number of friends, (2) number of acquaintances, (3) interactions with friends, and (4) times given and received help. The sparse set of controls consists of age, gender, race, cognitive skill, and our composite economic index (of log net worth and log income). To these, the full set of controls adds an indicator for college education, urbanicity, and religiosity.





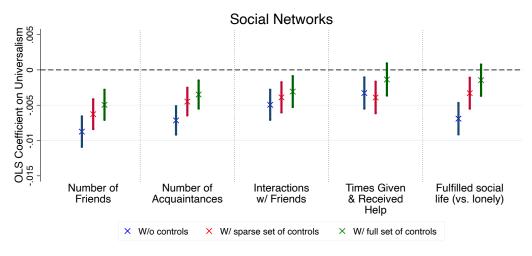


Figure 13: This figure presents OLS coefficients for the regression of the given outcome variable on our measure of universalism w.r.t. trust, along with 95% confidence intervals. Other than the first panel, the following outcome variables are in logs: (1) number of friends, (2) number of acquaintances, (3) interactions with friends, and (4) times given and received help. The sparse set of controls consists of age, gender, race, cognitive skill, and our composite economic index (of log net worth and log income). To these, the full set of controls adds an indicator for college education, urbanicity, and religiosity.

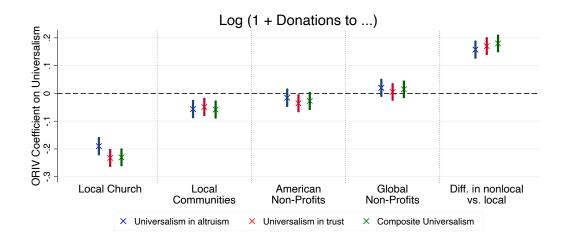
#### F.3 ORIV Analysis

Gillen et al. (2019) propose instrumentation strategies to address measurement error in experimental settings. To ensure that the relationships we measure between moral universalism and outcome variables are neither attenuated by nor simply artefacts of measurement error, we employ their obviously-related instrumental variables (ORIV) estimator. To do so, we treat different subsets of our universalism tasks as duplicate elicitations (in their notation,  $X^a$  and  $X^b$ ) of universalism ( $X^*$ ).

As pre-registered, the order of social groups presented in our survey is randomized within the domestic and global categories. As such, the first measure of universalism  $(X^a)$  is constructed just like the main measure described in Section 2, except that it only uses the five domestic groups that (randomly) appear first and the three global groups that (randomly) appear first in the survey for each subject. We do not include the foreign decision as there was only *one* of these elicitations.

Analogously, the second measure of universalism  $(X^b)$  is constructed just like the main measure described in Section 2, except that it only uses the five domestic groups that (randomly) appear last and the two global groups that (randomly) appear last in the survey.

Replicating our analyses of outcome variables in Section 6 with the ORIV estimator and the two duplicate elicitations described above delivers the results in Figure 14, where we plot the ORIV coefficients from instrumenting for universalism in altruism, universalism in trust, and composite universalism. Since each subject appears twice when implementing ORIV, standard errors are clustered at the subject level. We find that in almost all cases the results with the ORIV estimator are similar to those with OLS.



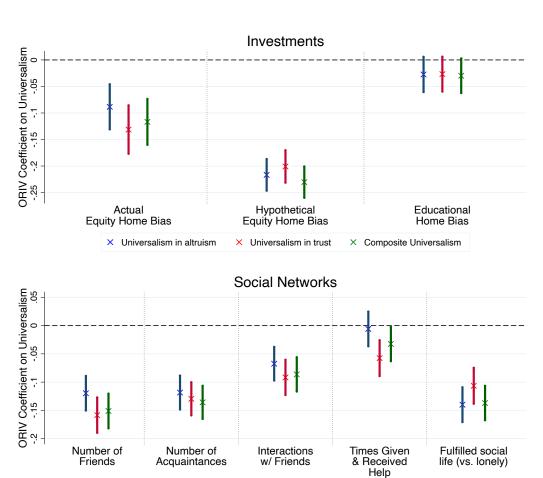


Figure 14: This figure presents coefficients for the stacked, ORIV regression of the given outcome variables on duplicate elicitations of our composite measure of moral universalism, along with 95% confidence intervals. As recommended by Gillen et al. (2019), both the universalism measures and outcome variables are standardized into z-scores so they have the same scale. Other than the first panel, the following outcome variables were originally in logs, before standardization: (1) number of friends, (2) number of acquaintances, (3) interactions with friends, and (4) times given and received help. Data underlying figure is from the full study sample.

Universalism in trust

× Composite Universalism

× Universalism in altruism

# G Replication of analyses based on pre-registered, representative *Dynata* sample

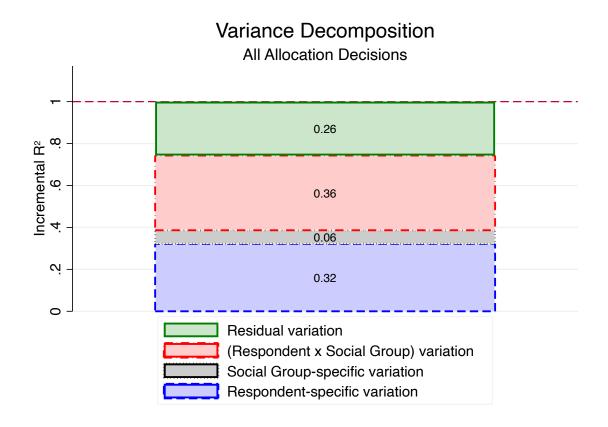
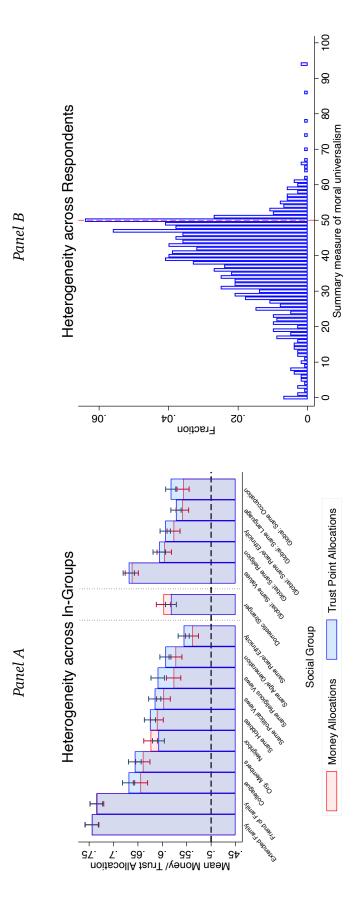


Figure 15: This figure presents the incremental  $R^2$  for a series of stacked regressions of all 32 allocation decisions made by all respondents in the representative sample of our survey on various fixed effects. That is, we stack all allocation decisions across both choice domains into a single column, regressing this column sequentially on respondent, social group, and respondent-times-social-group fixed effects. It shows that 32% of variation in the data can be explained by heterogeneity in respondents' average level of universalism, while 6% of the variance in the data can be attributed to heterogeneity in average universalism across social groups. Finally, 36% of the variation in the data can be explained by respondent-times-in-group fixed effects, i.e., by how individual respondents choose allocations specific to the given in-group, beyond what would be predicted by their average universalism level, the choice domain, and the specific social group.



present in-group-specific variation: average allocations of money and trust points given to every social group across all subjects, along with 95% confidence intervals. The first ten bars show average allocations to domestic in-groups in tradeoffs vis-à-vis a domestic stranger. The 11th bar shows the average allocation to a domestic stranger relative to a global stranger. Bars 12–16 show average allocations to a global in-group member vis-à-vis a global stranger. Each bar is composed of N = 999 Figure 16: This figure presents heterogeneity in decision-making along two key components of the variation in data from our universalism tasks. In Panel A, we individuals. In Panel B, we present respondent-specific variation: the distribution of composite measure of moral universalism across our representative sample of the U.S. population. The measure is a summary statistic averaging each subject's allocation decisions across both altruism and trust and across all social groups. These average amounts reflect allocations to random strangers, so that the measure is decreasing in subjects' in-group favoritism.

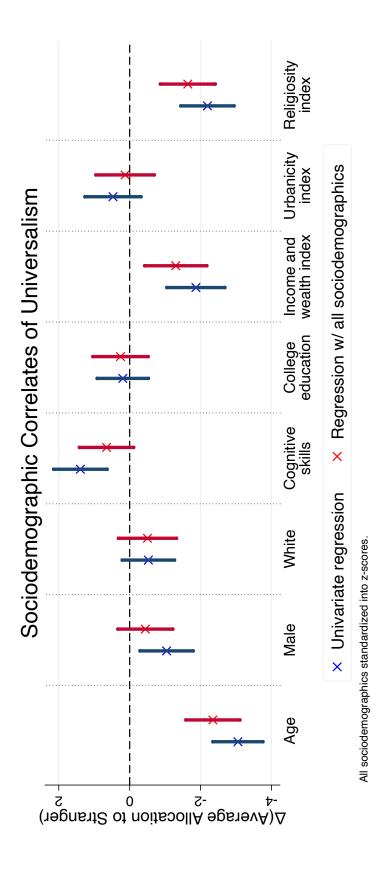
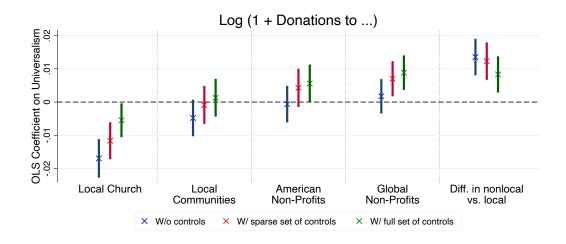
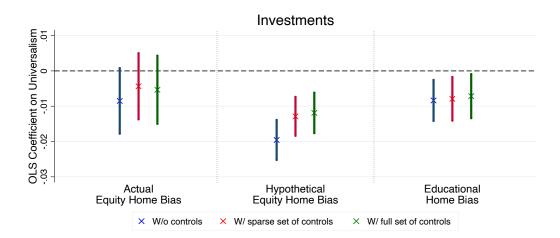


Figure 17: This figure presents OLS estimates from regressions of the composite measure of moral universalism on each of the given sociodemographic correlates, this figure represent a decrease in moral universalism given a one-standard-deviation increase in the given sociodemographic correlate. In our sample, one standard deviation in age is approximately 17.5 years. For the male indicator, one standard deviation is 0.49, and for the white indicator, one standard deviation is equal to along with 95% confidence intervals. Since moral universalism increases with allocation amounts to a stranger vis-à-vis an in-group member, negative coefficients in





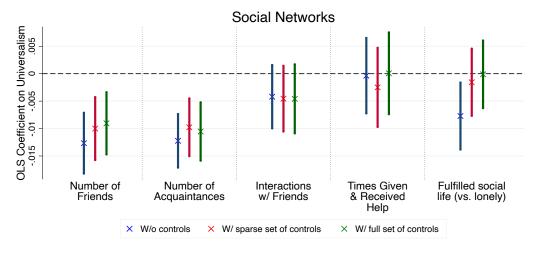


Figure 18: This figure presents OLS coefficients for the regression of the given outcome variable on our composite measure of moral universalism, along with 95% confidence intervals. All dependent variables are standardized into z-scores. Other than the first panel, the following outcome variables are in logs: (1) number of friends, (2) number of acquaintances, (3) interactions with friends, and (4) times given and received help. The sparse set of controls consists of age, gender, race, cognitive skill, and our composite economic index (of log net worth and log income). To these, the full set of controls adds an indicator for college education, urbanicity, and religiosity.