

## Non-Theists Are No Less Moral Than Theists: Some Preliminary Results

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ABSTRACT: The longstanding stereotype that non-theists are less moral than theists is not empirically supported. To test this commonplace assumption, 114 undergraduate participants were evaluated to draw comparisons about religious identity and altruism levels. Participants were placed into one of two groups, theists or non-theists. The theist group was then further divided: weakly religious, moderately religious, and highly religious. Non-theists and theists as a whole, as well as theist subgroup assessments, were compared. Data were collected through self-report surveys. Additionally, to test moral decision-making abilities, participants answered questions based on situational dilemmas. Using Kohlberg's coding schema, scores were assigned for the participant's global moral reasoning rather than for the content of their answers. Using independent groups t-test, ANOVA, and post-hoc tests,our findings suggest no support for the existence of the stereotype that non-theists are less moral than theists. Religious identity did not conclusively determine whether or not an individual was more moral or more altruistic.

KEYWORDS: KOHLBERG, MORAL REASONING, RELIGIOUS IDENTITY, THEISM, NON-THEISM

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### Introduction

In the United States, individuals who do not self-identify with any organized religion are generally seen in a negative light by those who do self-identify with organized religion (e.g., <u>Harper, 2007</u>; see also <u>D'Andrea & Sprenger, 2007</u>; <u>Koproske, 2006</u>). For example, Edgell, Gerteis, and Hartmann (<u>2006</u> p. 281; see also <u>Caldwell-Harris</u>, <u>Wilson</u>, <u>LoTempio</u>, <u>& Beit-Hallahmi</u>, 2011) found that approximately half of Americans "Would Disapprove if My Child Wanted to Marry" an atheist. Yet non-theists are a growing minority, expanding from 8.2% in 1990, to 14.1% in 2001, to 15.0% in 2008 of the US population (<u>Kosmin & Keysar</u>, 2009 p.1).Over the last decade, religious individuals have become more tolerant of members of other religions; however, they have not become more tolerant of non-religious individuals (<u>Edgell et al. 2006</u>). Such lack of tolerance possibly stems from a well-known stereotype that links elevated levels of religiosity with elevated levels of morality; that is, many people believe that non-theists are less moral than theists, on average (<u>Zuckerman</u>, 2009). Additionally, we know from interview research that non-religious individuals from rural states in the US, perhaps based on these negative stereotypes, are typically unwilling to reveal their non-religious identity, hiding their identity, unless explicitly confronted by family and friends (<u>Charles</u>, <u>Rowland</u>, <u>Long</u>, <u>& Yarrison</u>, 2012; <u>Rowland</u>, Long, <u>& Yarrison</u>, forthcoming).

Generally, the justification for this widespread prejudice is the belief that in the absence of spiritual guidance by organized religion or a higher power, people cannot overcome their base impulses, which results in a lawless, mendacious, and otherwise amoral individual (Zuckerman, 2009). It is beyond the scope of this paper to speculate on the origins of this "amoral atheist" stereotype. It may be the case that most people are simply misinformed about the correlation between moral reasoning abilities and belief in God. At this point in history, it appears that the label of atheist has come to be associated with amorality and a general rejection of societal values, and not simply the lack of a belief in God.<sup>2</sup>

The possibility of morality without the benefit of religious belief is an ongoing debate, both publicly (e.g., <u>Kaminer, 1997</u>) and among scholars (<u>Epstein, 2009</u>). Still, there is little empirical evidence that can be evaluated to determine whether theists and non-theists differ in the capacity for moral reasoning. This preliminary study provides such evidence by measuring moral reasoning and self-reported altruistic behavior in a modest sample of college students.

### **Prior Research**

While studies have examined beliefs about theists and non-theists, little empirical work directly compares theists *to* non-theists. Exceptions to this generally find little basis for bias against non-theists. For example, a survey by the Pew Forum on Religion and Public Life (2009) found that non-theist Americans are the group least supportive of governmental use of torture. Caldwell-Harris et al. (2011) sent questionnaires to theists and non-theists to analyze their levels of wellbeing, spirituality, self-compassion, interpersonal reactivity, religious background, and to what extent they believe in magic. They found no difference between theists and non-theists in levels of compassion, empathic concern, perspective taking, fantasy, or personal distress. Additionally, while some studies have found that religion impedes criminal behavior (Bair & Wright, 2001; Powell, 1997; Bainbridge, 1989; Elifson

<sup>2</sup> For example, we speculate that the same participants in the previously cited research would have indicated a more favorable reaction toward individuals labeled as "secularists" or "humanists," despite their otherwise negative attitudes towards "atheists."

et al. 1983; Peek et al. 1985 as cited in Zuckerman, 2009), several other studies found that religiosity has no significant effect on inhibiting criminal activity, and that murder rates are lower in more secular nations and higher in more religious nations (e.g., Jensen, 2006; Paul, 2005; Fox & Levin, 2000, as cited in Zuckerman, 2009).

### **Measuring Morality**

Morality has numerous ambiguous definitions. Commonly conceptualized as compassion toward fellow human beings or sympathy for others experiencing difficult situations, especially those involving physical or mental pain, morality can also be observed and measured when thinking about what to do in various situations. There are two common types of measures for morality, namely, measures of altruistic behavior and measures of moral reasoning. These measures capture participants' past moral behavior and their current moral reasoning abilities.<sup>3</sup>

*Altruistic behavior* is generally considered moral, as it involves placing others' needs before one's own. Altruistic behavior can be measured using self-report scales, for example, Rushton, Chrisjohn, and Fekken's (1981) Self-Report Altruism scale composed of a 20-question survey that asks participants how often they have engaged in various altruistic behaviors. With any scale that requires participants to reflect on past behavior, we know that data collected with these instruments suffer from retrospective bias, normative bias, and the potential for exaggeration or self-aggrandizement. However, this particular scale has been shown to correlate well with performance of altruistic behaviors.

*Moral reasoning* is not a measure of moral behavior per se, but a proxy reflecting one's intellectual approach to situations with respect to the moral consequences of different actions. The classic method for measuring moral reasoning is an interview designed by Kohlberg (1969), which can be adapted to other data gathering formats, such as self-reported surveys, to streamline coding (see Appendix). Kohlberg's theory of stages of moral reasoning measures people's reasoning ability by evaluating their reactions to hypothetical moral dilemmas (e.g., <u>Colby et al. 1983; Kohlberg, 1969</u>). In this system of measurement, participants are not evaluated based on their ability to select the "moral answer" for each dilemma, but rather on the type of reasoning they use to justify the behavioral option they selected (<u>Crain, 1985</u>). Based on their justifications, participants can be placed on a six-point scale indicating the stage of moral reasoning they have reached, or the stages they are between. Unlike the previous measure, which focused on altruistic behavior and has been shown to reflect verifiable behaviors, this measure examines moral *reasoning*. This is of particular interest because the stereotype of the "amoral atheist" pertains to both moral reasoning and moral behavior.<sup>4</sup>

Despite the immense utility of Kohlberg's dilemmas, we agreed with critics that his dilemmas are gender-biased and dated.<sup>5</sup> To address this concern, we replaced one of Kohlberg's dilemmas in

<sup>3</sup> There is also a lot of recent interest in creating a multi-dimensional schema for morality, most notably, John Haidt's (2012) work on "Moral Foundations Theory." Future research could develop these dimensions of morality by specifically comparing theists and non-theists.

<sup>4</sup> Readers might also be interested in this measure of moral reasoning ability if they are concerned that our participants might score similarly on the altruism scale despite differences in moral reasoning ability. That is, there might be several reasons that individuals participate in altruistic behaviors, only a subset of which is the direct result of competent moral reasoning.

<sup>5</sup> Many have argued that Kohlberg's theory is male-centric (e.g. <u>Gilligan, 1982</u>). Our study included both male and female participants, and a reviewer of an earlier draft suggested that utilizing a male-centric measure was problematic. We are sympathetic to this critique of Kohlberg's work, but wish to note that our study included a clearly female-oriented scenario of our own design, and that the results reported below do not change if we limit our analyses to only the male participants.

order to tap into contemporary issues regarding abortion, and revised two dilemmas in order to update their language and reflect contemporary dollar values. Only the Heinz dilemma remained intact. (See <u>Appendix</u> for the complete dilemmas.) Additionally, while Kohlberg collected data through face-to-face interviews, we did not. Time-intensive interviews were streamlined through the use of on-line survey data collection techniques. In the spirit of an interactive interview situation, we also collected responses to a number of questions including open-ended questions such as "what would you do?" and "why would you do that?" (see <u>Appendix</u>).

### **Research Hypotheses**

Based on the stereotype that theists are less moral than theists, we generated and tested the following two hypotheses:

- 1. Non-theists will score lower than theists in terms of altruistic behavior.
- 2. Non-theists will score lower than theists in terms of moral reasoning.

More specifically, we hypothesized that:

- 3. Non-theists will score lower than religious individuals in any category (highly, moderately, and weakly religious) regarding altruistic behavior.
- 4. Non-theists will score lower than religious individuals in any category (highly, moderately, and weakly religious) regarding moral reasoning.

### Method

The first author (an undergraduate thesis student) gained IRB approval for the study, oversaw the recruitment of participants from Introductory Psychology courses, was responsible for gaining informed consent from participants, oversaw the collection of data, and lead a team of assistants during the analysis and preparation of results. Participants came to a research laboratory to complete a survey administered through Checkbox, an online survey system (<u>www.checkbox.com</u>, 2002) at their own pace with complete confidentiality. Participants commonly arrived in small groups, but completed the questions in individual rooms so that other participants could not view their answers or the pace at which their surveys were completed.

### Instruments, Scales, and Procedures

First, participants responded to the content of four moral dilemmas (see <u>Appendix</u>). Moral dilemmas are paragraph-long scenarios, in which the main character is forced to make a (potentially difficult) decision in a (potentially difficult) situation. For each dilemma, participants answered 10 questions. The first, third, and fourth dilemmas (or scenarios) were Kohlberg's (<u>Colby et al. 1983</u>), which are the "Joe,""Louise," and "Heinz"dilemmas, respectively. The second dilemma, the

"Courtney" dilemma, was original (i.e., we designed it for the purpose of this study). Participants were asked to answer four different types of multiple choice questions after reading each dilemma: (type-1) what would you do?; (type-2) what should the protagonist do?; (type-3) why elect that option?; and (type-4) another group of questions that tie in to relevant social norms.

For example, in the Appendix, question 10, a type-1 question, asked whether or not the participants would have an abortion if they found themselves in "Courtney's" position. By comparison, question 19, a type-2 question,asked "Thinking back over this dilemma, what would you say is the most responsible thing for Courtney to do in this situation?" Questions 11, 16, and 18 were type-3 questions, asking the participants to explain why they made the particular decision that they did. In each of these questions, the multiple choice answer always included an option that allowed participants to indicate religion as their primary reason for making their decision (e.g., "I would feel religiously obligated not to have an abortion" or "God would be upset"). Questions 12, 13, 14, 15, and 17 were type-4 questions, asking about different social norms (e.g., "Is it wrong to consider having an abortion?", or "Is it acceptable for unmarried people to be having sex?").These questions allowed us to take a more in-depth look at participants' reasoning.

After completing the moral dilemmas, participants completed five surveys: the Self-Report Altruism Scale (Rushton et al. 1981);the Attitudes Toward God Scale (ATGS 9, Wood, Worthington, Exline, Yali, & Aten, 2010)<sup>6</sup>; the Attachment to God Inventory (Beck & McDonald, 2004); a Religious Upbringing Scale (RUS, <u>Charles, Rowland, & Didyoung, unpublished</u>); and the Religious Commitment Inventory (Worthington, Wade, Hight, Ripley, & McCullough, 2003). Data from the ATGS 9, the Attachment to God Inventory, and the RUS are not analyzed here. Participants also completed four demographic questions: gender, age, religious preference (if any), and belief in God (yes/no). We did not ask about race or socioeconomic status.

### Scoring and Coding

The open-ended questions in the moral dilemmas were scored in compliance with Kohlberg's published coding instructions (Colby et al. 1983). Participants' responses to each dilemma were coded, and the resulting scores were combined to give each participant a Moral Maturity Score (MMS). Roughly speaking, the process of scoring is as follows: the coder identifies the theme being taken into account by the participant (e.g., concern for other), which comes from a list prepared by Colby and Kolhberg (1983). The coder then rates the sophistication of the participant's reasoning about each theme (e.g., it is "stage 3", or "between 3 and 4"), according to Colby and Kolhberg's (1983) instructions, and then a weighted average is taken. Thus, an MMS score of 1 indicates the lowest possible score (i.e., only obedience and punishment driven reasoning), while a score of 3 indicates a higher level of moral reasoning (i.e., the search for interpersonal accord and compliance with general social norms). In principle, Kohlberg's scale has a ceiling of 6, which implies the highest level of moral reasoning (i.e., reasoning driven entirely by "universal principles"). The first author, along with two research assistants working under his supervision, coded every survey. The group met to determine the rate of consistency between independently derived codes. Because of intensive training prior to the coding process, nearly unanimous coding took place (more than 95% consistency between coding). In the few cases where disagreement arose, the group met and consensus was reached. This process lasted

<sup>6</sup> Because we were doing a study involving Non-theists, we modified the Attachment Toward God Scale by adding a "not applicable" option. For example, participants could indicate "not applicable" when asked how angry they feel toward God, although, as it happens, some non-theists were quite angry toward God.

nearly five months in the fall of 2011. The other five surveys were coded by summing participants' responses, including a number of reverse-scored items.

### **Assignment of Religious Categories**

The demographic information and data from the Religious Commitment Inventory were used to categorize participants into groups based on their level of religiosity. First, participants who said they did not believe in God or who listed their affiliation as Atheist or Agnostic were categorized "non-theist." We performed a quartile split on the Religious Commitment Inventory scores of the remaining participants. Participants in the bottom quartile were labeled "weakly religious," those in the top quartile were labeled "highly religious," and those in the middle were labeled "moderately religious."<sup>7</sup>

In this study, "non-theist" included atheists, who lack belief in the existence of a god or supreme being, and agnostics, who believe that the existence of a god or supreme being cannot be determined (Miovic, 2004). Following Kosmin and Keysar's (2009) categories, non-theists also included anyone self-identifying as Secularists, Humanists, Ethical Culturalists, and individuals with no religious preference. These groups are commonly referred to as "Nones" because, when asked "What is your religion, if any?" members of these groups respond "None" (Kosmin & Keysar, 2009 p. 2). In this study, theists included individuals who self-identify with a major religion, which, in our sample, includes Catholics, Jews, and Protestants. We recruited participants from Introduction to Psychology classes at a rural college and 114 student participants joined the study (representing roughly half of the participant pool).

### Results

#### **Theists and Non-theists**

Participant age ranged from 18 to 45 years (M = 19.43, SD = 3.59); 40 were male, 74 were female. Participants were divided into theists (N = 96; 28 Protestant, 17 Catholic, 2 Jewish, 9 with no set religion but who believed in a higher power) and non-theists (N = 18, 14 Atheist, 4 Agnostic). Theists were further subdivided into weakly religious (N = 24), moderately religious (N = 47), and highly religious (N = 25).

To add further validity to our religious categories, we analyzed the type-2 questions in the moral dilemmas survey to determine the number of times members of a given religiosity level claimed religion as their primary reason for behavioral decisions. Significant differences were found between the groups (F (3, 110) = 21.35, p < .05). Non-theists (M = .000, SD = .000) did not differ from weakly religious participants (M = .250, SD = .676); however, both those groups selected religious justifications less frequently than did the moderately religious (M = 1.04, SD = 1.160); and the moderately religious selected religious justifications less frequently than did the moderately than did the highly religious (M = 2.40, SD = 1.658).

<sup>7</sup> Because we are treating theist v. non-theist as a categorical distinction, using a quartile split seemed preferable to treating degree of religiosity as a continuous variable. (The latter approach implies non-theists are merely the low point on a degree-of-theism scale.)

### First Hypotheses: Theists and Non-theists

The data did not support our first hypotheses. Theists did not significantly differ from non-theists in terms of self-reported altruism (t (112) = -1.157, p > .05) or moral reasoning (t (112) = -0.038, p > .05). While we are aware of the difficulties in interpreting null results, our analysis has adequate power to detect small effect sizes, leading us to conclude that any undetected effects are quite small. The analyses below indicate we were able to detect several other effects. These results are admittedly preliminary.

### Second Hypotheses: Highly Religious, Non-theists, and Weakly Religious

In terms of the moral reasoning score, highly religious individuals did not significantly differ from non-theists (t (41) = 0.88, p > .05), highly religious individuals did not differ from weakly religious individuals (t (47) = -1.15, p > .05),and non-theists did not differ from weakly religious individuals (t (40) = 1.439, p > .05)(see Figure 1a).

In terms of self-reported altruism, highly religious individuals did not significantly differ from non-theists (t (41) = 0.36, p > .05), highly religious individuals did not differ from weakly religious individuals (t (47) = -.471, p > .05), and non-theists did not differ from weakly religious individuals (t (40) = 0.809, p > .05)(see Figure 1b).

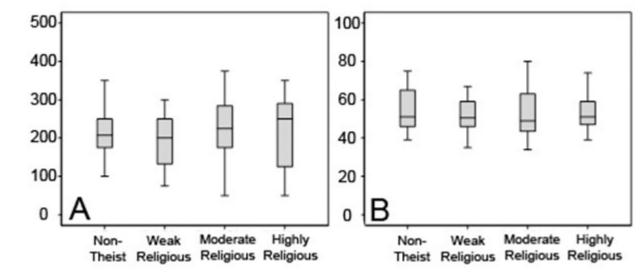


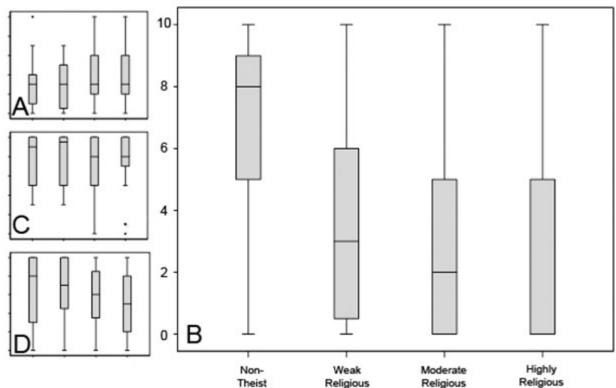
Figure 1.

Box plots of (A) 500 point moral maturity scores (0 = blind egoism; 500 = promotes general welfare) and (B) 100 point self-report altruism (20 = performs no altruistic acts within the last month; 100 = routinely performs several altruistic acts within the last month), for participants who were Non-theists, Weakly Religious, Moderately Religious, and Highly Religious. The central bar indicates the median, the box limits indicate the inter-quartile interval, and the error bars indicate the extreme values. No comparisons are significant. Theists and Non-theists did not differ in terms of moral reasoning ability or altruistic behavior.

#### **Behavior-related Decisions in Scenarios**

For each scenario, the first question asked participants to state what they would do on a scale from 1-10. No differences were found based on religious category in the behavioral tendencies indicated in scenario 1 (F (3, 110) = .965 p > .05), scenario 3 (F (3,110) = .434, p > .05), or scenario 4 (F (3, 110) = 1.049, p > .05)(see Figure 2a, c, d). There was a significant difference found in behaviors for scenario 2, the "Courtney" dilemma about abortion (F (3,110) = 9.541, p < .05). A Tukey HSD test indicated that the mean for non-theist (M = 6.89, SD = 3.027) differed significantly from the means for weakly religious (M = 3.67, SD = 3.20), moderately religious (M = 3.00, SD = 3.07), and highly religious (M = 2.04, SD = 3.05). There were no other significant differences between groups (see Figure 2b).



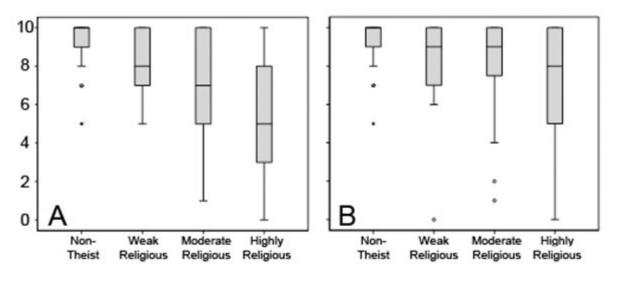


Box plot of behavioral tendencies in moral dilemmas indicating willingness to (A) obey a seemingly unreasonable request from a parent, (B) have an abortion, (C) withhold crucial information from a parent, and (D)steal medicine. On the scale, 0 indicated "I definitely would not…" while 10 indicated "I definitely would…" Outliers indicate scores more than three box-areas from the median. There were no significant differences between Theists and Non-theists in terms of a willingness to disobey parents, lie, or steal. The only significant difference was in the willingness to have an abortion. This suggests that the seemingly stable judgment of Theists as moral and Non-theists is supported by ever-shifting selective attention that keeps prejudiced individuals focused of points of behavioral disagreement, while ignoring any wider evaluation of the morality of Theists vs. Non-theists.

### Social Norm Decisions Relevant to Abortion Scenario

Because groups only differed in their projected behaviors indicated in scenario 2, we further analyzed type-4 questions for scenario 2, the "Courtney" dilemma. Question 12 asked whether it is acceptable for the characters of the dilemma to be involved in premarital sex. A one-way ANOVA found a statistically significant difference between the groups (F (3, 110) = 10. 647 p < .05). A Tukey HSD test indicated that the mean for non-theists (M = 0.89, SD = 1.451) differed significantly from the mean for the moderately religious (M = 3.13, SD = 2.525) and from the mean for the highly religious (M = 4.64, SD = 3.094); the mean for the weakly religious (M = 1.71, SD = 1.805) differed significantly from the mean for the highly religious (see Figure 3a).

Figure 3.



Box plots showing attitudes towards premarital. Questions 12 and 17 can be summarized as follows (A) 12: Is premarital sex acceptable? (B) 17: Given that they have been together for 2 years? Question 12 has been reverse coded so that higher scores in both plots indicate sex is acceptable, while lower scores indicate it is not. Note that there is (A) a fairly linear trend between degree of religiosity and the belief that even premarital sex is wrong, unless (B) you point out that there is a long-term relationship, in which case Weak and Moderate Religious people are (as a group) indistinguishable from Non-Theists, and that even the majority of Highly Religious people think premarital sex is acceptable.

Religious individuals were more accepting of premarital sex when it was emphasized that the couple had been in a relationship for two years. For Question 17 there was still a significant difference between groups (F (3, 110) = 3.543 p > .05). However, for that question the only difference indicated by a Tukey HSD was that the mean for the highly religious (M = 6.88, SD = 3.180) differed from those of all other groups: non-theists (M = 9.17, SD = 1.465), weakly religious (M = 8.25, SD = 2.327), and moderately religious (M = 8.30, SD = 2.176)(see Figure 3b).

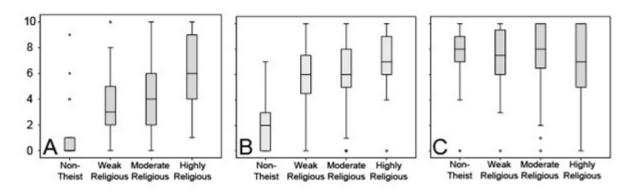
Higher degrees of religiosity were associated with lower levels of tolerance for Courtney's consideration of the abortion, which was observable from analysis of Question 15. There was a

significant difference across groups (F (3, 110) = 11.249 p < .05). A TukeyHSD test indicated that the mean for non-theists (M = 1.33, SD = 2.497) differed from the mean for weakly religious (M = 3.46, SD = 2.654), the mean for weakly religious did not differ from the mean for moderately religious (M = 4.15, SD = 2.956), and all groups' means differed from the mean for highly religious (M = 6.28, SD = 2.865) (see Figure 4a).

Analysis of Question 14 indicated that theists thought that Courtney should bear the "burden" of being a teenager mother, whereas non-theists did not (F (3,110) = 13.892 p < .05). A Tukey HSD test indicated that the mean for non-theists (M = 2.22, SD = 2.157) differed significantly as compared to the means for all theist groups: weakly religious (M = 6.00, SD = 2.670), moderately religious (M = 6.02, SD = 2.739), and highly religious (M = 7.16, SD = 2.461). However, theists did not differ from each other.

In contrast, Question 13 indicated agreement about who to blame for the circumstances of the dilemma. There was no significant difference between groups (F (3,110) = 2.257 p > .05), and all groups indicated that fault rested on Courtney (see Figure 4c).

Figure 4.



Box plots showing additional social-norm judgments from Scenario 2. Questions 15, 14, and 13 can be summarized as follows (A) 15: Is considering an abortion wrong? (B) 14: Must Courtney accept being a teen parent? (C) 13: Is it Courtney's fault for forgetting her birth control? Note that there is (A) a fairly linear trend between degree of religiosity and the belief that even considering an abortion is wrong, (B) a bifurcation with Theists thinking that Courtney must have the child, and Non-theists at least admitting her a choice, but that there is (C) agreement across all groups (on average) that it is Courtney's fault that she is pregnant.

### Discussion

The fool hath said in his heart, there is no God. They are corrupt, they have done

abominable works, there is none that doeth good (Psalm 14.1, <u>The Holy Bible, King James</u> <u>Version</u>)<sup>8</sup>

Social acceptance of non-religious individuals in the United States has not kept pace with their growing numbers. The stereotype that non-theists are amoral endures among religious individuals, partly justified by particular readings of classic works, such as the Psalms; however, this tension is also readily seen in contemporary works, especially those locked in debate such as *The Case for God* (Armstrong, 2009) and Atheism: The Case Against God (Smith, 1979).

Social scientific and behavioral research, however, has not taken up this issue empirically. To the best of our knowledge, these preliminary results are the first empirical test of this stereotype, and the results evidence no difference in altruistic behavior or moral reasoning abilities between theists and non-theists (see Figure 1). Additionally, close inspection of the few observed differences between groups suggest that the cultural boundary separating morality from amorality may have changed over time in such a way that keeps non-theists ever outside the bounds of morality in this ongoing conversation about which groups are and are not moral.

On point, the behavioral choices that theists and non-theists considered to be culturally appropriate solutions to moral dilemmas were surprisingly similar in a number of cases. In Scenario 1, for example, all groups indicated it was acceptable to disobey direct instructions from a parent (see Figure 2a). In Scenario 3, all groups indicated it was acceptable to bear false witness to a parent (see Figure 2c). In Scenario 4, all groups expressed ambivalence about the acceptability of theft (see Figure 2d). The only significant difference in behavioral choices across the dilemmas was in Scenario 2, in which non-theists were, on average, more likely than were any of the theist sub-groups to indicate that they would have an abortion in the context of the situation described in the dilemma (see Figure 2b). Thus, any attempts to emphasize the differences in moral decision making between theists and non-theists can only hold if it focuses on the very narrow points of disagreement (e.g., abortion), while ignoring the wide swaths of similarity between the groups (as indicated by the other three dilemmas).

Even emphasis on the very limited moral question of whether abortion is acceptable overstates the differences between theists and non-theists. While the groups studied seemed to have different opinions about the acceptability of premarital sex (see Figure 3a), the groups all judged premarital sex acceptable when the question was rephrased to emphasize the ongoing and "committed" nature of the relationship (see Figure 3b). While group opinions differed in terms of the acceptability of Courtney even considering an abortion, all but the highly religious erred on the side of it being acceptable (see Figure 4a). Further, all groups agreed that responsibility for the precarious situation was Courtney's (see Figure 4c). The only question that suggested a clean divide between theists and non-theists was whether Courtney's responsibility for the situation obligated her to keep the child (see Figure 4b).

### Limitations

We acknowledge that there is ongoing debate about whether or not Kolhberg's morality model is indicative of actual human behavior (<u>Fishbein & Ajzen, 1975</u>). Reasoning and action are obviously not the same. There is also the potential lack of generalizability. The religious affiliation among

<sup>8</sup> Of course, Psalm 14 was not directed at Atheists per se. This poem was written – and there is much speculation on its exact age – during 1,000 to 600 B.C., which was approximately 100 years before the term "atheist" was coined for common usage among the Ancient Greeks. There is little evidence to indicate that atheists were conceived of as a group at the time that Psalms was written. More likely, the authors had polytheists and various spiritual sects in mind in their explicit use of the singular when invoking a one "God."

participants was limited. Further, our data were collected in a rural US context, and the participants were primarily traditionally aged college students.

In addition, we also recognize that with such a modest sample in our preliminary study, the error associated with measures of group means can be quite large. As mentioned earlier, this implies that null results are likely to be found when small differences are still present. We believe there is no substantial change to our conclusions if such small differences exist, though they might be important for other purposes. After all, the prominent stereotype that our data argues against would predict large differences, which we would have easily detected, if they were present.

### A comment on the shifting cultural boundaries of morality

In closing, it is worth noting that much of the interesting data in this study was derived from our transformation of Kohlberg's dilemmas. We used three dilemmas from his monograph (Colby et al. 1983) and a new dilemma created for the study about abortion. We believe that if we used more of Kohlberg's original dilemmas, we would have continued to observe similarities between theists and non-theists. While it is an open empirical question, we do not know whether Kohlberg's dilemmas ever distinguished theists from non-theists in a culturally meaningful way; Kohlberg's original analysis from the 1950s did not report on this comparison. What we do know is that our new dilemma regarding abortion was the only one in this study to show a clear statistical difference between the groups. Perhaps not by coincidence, abortion is one of the most prominent issues in modern debates about morality.

We now hazard a hypothesis: Non-theists are consistently deemed amoral by theists, but for different reasons depending on the social and historical context. To illustrate, consider the cultural boundary that is now drawn among our participants regarding when premarital sexual relations are appropriate. We suspect that even the weakly religious participants in Kohlberg's studies from the 1950s would have judged premarital sex morally inappropriate after two years of dating. In contrast, our contemporary study shows that even highly religious participants considered pre-marital sexual relations acceptable, especially after two years in a committed relationship. Previously, cultural boundaries surrounding pre-marital sexual relations may have differentiated between "moral theists" and "amoral non-theists"; however, the same issue no longer maintains the boundary. Under such circumstances, either the stereotype must fall away or a new criterion must be established to maintain the boundary. In this particular case, if US theists are motivated to maintain their perceptions of moral superiority, the historic trend toward moral homogeneity puts ever growing pressure on whatever points of contrast that remain to cleanly separate them from non-theists. The entire weight of the negative stereotype comes to fall on an increasingly truncated subset of issues.

This may help explain the particular vehemence with which people argue about issues such as abortion. As one of the few current boundaries keeping the negative stereotype about non-theists alive, opinions about abortion have become a crucial component of religious adherents' self-identity as moral arbitrators. When abortion inevitably fails to polarize morality debates, those seeking to maintain their identities as moral arbitrators will, out of necessity, find some new issue to hoist up as firm proof that non-theists are (still) amoral.

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### **Appendix: Decision Making Scenarios**

### Scenario I

Joe is a fourteen-year-old boy who wanted to go to camp very much. His father promised him he could go if he saved up the money for it himself. So Joe worked hard at his paper route and saved up the five hundred dollars it cost to go to camp, and a little more besides the five hundred. But just before camp was going to start, his father changed his mind. Some of his friends decided to go on a special fishing trip, and Joe's father was short of the money it would cost. So he told Joe to give him the money he had saved from the paper route. Joe didn't want to give up going to camp, so he thinks of refusing to give his father the money.

- 1. If Joe was to ask you for advice about what he should do in that situation what would you tell him?
  - A. Joe, you should keep the money.
  - B. Joe, you should give your father the money.
  - C. I could not tell Joe what to do. It is not my place to judge.
- 2. What would you do if you were Joe, would you give your father the money?
  0 = No, I will defiantly keep it. 10= Yes, I would not hesitate to give the money to my father.
  0 1 2 3 4 5 6 7 8 9 10
- 3. In this situation, if you were to give your father the money, why would you?
  - A. It's what is right.
  - B. Family is everything to me, he is my father.
  - C. It's just what I would do.
  - D. I would be afraid of angering God.
  - E. Other \_\_\_\_\_

4.	4. 4. Does the father have the right to tell Joe to give him the money?												
	0= N	o, he d	oes not.								10= Yes, he does.		
	0	1	2	3	4	5	6	7	8	9	10		
5.	Does	giving	, the mo	ney ha	ve anyt	hing to o	do with	being	a good s	on?			
	0= No, not at all. 10= Yes, extremely.												
	0	1	2	3	4	5	6	7	8	9	10		
6.	Is the	e fact th	nat Joe e	earned	the mor	iey hims	self imp	ortant	in this s	ituatio	on?		
	0= N	o, not a	at all.								10= Yes, extremely.		
	0	1	2	3	4	5	6	7	8	9	10		

7. The father promised Joe he could go to camp if he earned the money. In this situation how important is the fact that the father promised Joe?0= No, not at all.10= Yes, extremely important.

- 0 1 2 3 4 5 6 7 8 9 10
- 8. What do you think is the most important thing a father should be concerned about in his guidance to his son?
  - A. Teaching to do what's right by society's standards.
  - B. Teachings of the importance of the obligations to family.
  - C. Teachings of God.
  - D. None of these.
- 9. Thinking back over this scenario, what would you say is the most responsible thing for Joe to do in this situation?
  - A. He should keep the money.
  - B. He should give the money to his father.

Why? \_\_\_\_\_

### Scenario II

Courtney is a 17-year-old girl. Her boyfriend and her have been dating for two years. They are sexually active, only with each other. Courtney started taking birth control in the second year of their relationship. Courtney started taking birth control because she was afraid to become pregnant as a teenager. She feels that could destroy her life because she is so young. Courtney tends to be forgetful and accidentally stopped taking her pill for 2 weeks. During this period she had intercourse with her boyfriend and became pregnant. She is afraid to tell her mother, and horrified at the thought of having this child. She and her boyfriend feel as if they are not ready to be parents, and that they have too much to lose in having this child. Courtney is considering having an abortion. Should she go through with this idea?

10. If you were Courtney, do you think you would have an abortion?											
0= N	lo, not	at all.			10= Ye	es, I dei	finitely	would	in this si	tuation.	
0	1	2	3	4	5	6	7	8	9	10	

11. If you feel as if you would not have an abortion why wouldn't you?

- A. N/A
- B. I am too young to have a child.
- C. My family will be infuriated.
- D. God will be upset if I had a child out of wedlock.
- E. It's just wrong to have an abortion.
- F. Other\_\_\_\_\_

12. Is it wrong for Courtney and her boyfriend to be having premarital sex, even though so many other people are?

0= N	o, not a	at all.						1	l0= Yes	s, extreme	ely wrong.
0	1	2	3	4	5	6	7	8	9	10	

	<ul><li>13. Is it Courtney's fault for forgetting to take her birth control?</li><li>0= No, not at all.</li><li>10= Yes, it's all her fault.</li></ul>										
0	1		3	4	5	6	7	8	9	10	
	st Courti No, not a		ept the l	ourden	of bein	g a teena	-			was irresponsible? Iy agree with this.	
0	1	2	3	4	5	6	7	8	9	10	
15. Is th 0= N	e fact th No, not a		rtney is	conside	ering an	abortic		-	is verv	wrong of her.	
0	1	2	3	4	5	6	7	8	9	10	
B. 1 C. 1 D. (	l would l would l would Other	feel per feel ob feel rel	rsonally ligated t igiously	o follo obliga	w socie ted not	tal stand to have	lards to an abor	preserv tion.		n general.	
	okay fo No, not a		ney and	her bo	6		0	0		their relationship? nitted relationship.	
0	1	2	3	4	5	6	7	8	9	10	
C. 1 D. (		nst soci ily will l be ups	ety's sta be hurt set, it's a	andards a sin.							
Cou A. S	nking ba rtney to bhe shou he shou	do in tl ld have	his situa the abc	tion? ortion.	ıa, wha	it would	d you s	say is	the mo	ost responsible thing for	

Why?\_\_\_\_\_

### Scenario III

Judy was a twelve-year-old girl. Her mother promised her that she could go to a special rock concert coming to their town if she saved up from baby-sitting and lunch money to buy a ticket to the concert. She managed to save up the 50 dollars the ticket cost plus another five dollars. But then her mother changed her mind and told Judy that she had to spend the money on new clothes for school. Judy was disappointed and decided to go to the concert anyway. She bought a ticket and told her

mother that she had only been able to save five dollars. That Saturday she went to the performance and told her mother that she was spending the day with a friend. A week passed without her mother finding out. Judy then told her older sister, Louise, that she had gone to the performance and had lied to her mother about it. Louise wonders whether to tell their mother what Judy did.

20. If you were Louise, the older sister, should you tell your mother that your sister, Judy, lied about the money?

0= N	No, I she	ould no	t tell.			10= Yes, I should not hesitate to tell my mother.						
0	1	2	3	4	5	6	7	8	9	10		

21. If you were to tell, why would you?

- A. I would feel personally obligated to my Mother.
- B. I would feel obligated to follow societal standards to tell the truth.
- C. I would feel religiously obligated not to lie.
- D. Other \_\_\_\_\_
- 22. In wondering whether to tell, Louise thinks of the fact that Judy is her sister. Should that make a difference in Louise's decision?

0= N	lo, it ma	akes no	differe	nce.		10= Yes, that is reason enough not to tell.					
0	1	2	3	4	5	6	7	8	9	10	

# 23. Does telling on Judy have anything to do with being a good daughter?0= No, it does not at all.10= Yes, it absolutely does.

0 1 2 3 4 5 6 7 8 9 10

24. Why would it have anything to do with being a good daughter?

- A. Because Judy's mother is responsible for her.
- B. Because any mother deserves to know what their children are doing.
- C. Because religion teaches that children should defer to their parents on important decisions.
- D. Other \_\_\_\_\_
- 25. How important is the fact that Judy earned the money herself in this situation?

0= N	Not imp	ortant a	at all.			10= Yes, it is the most important fact in this situation.						
0	1	2	3	4	5	6	7	8	9	10		

26. How important is it that the mother promised Judy she could go to the concert if she earned the money?

0= N	lot impo	ortant a	t all.		1	10= Yes it is very important that the mother promised.						
0	1	2	3	4	5	6	7	8	9	10		

### 27. Why should a promise be kept?

- A. Because the promise is important to the individuals who make it.
- B. Because society could not function without personal integrity.
- C. Because it is wrong not to.
- D. Because religion teaches us to keep our promises.

E. Other

- 28. Is it important to keep a promise to someone you do not know well and probably won't see again?
- 29. Thinking back over this dilemma, what would you say is the most responsible thing for Louise to do in this situation?
  - A. She should tell.
  - B. She should not tell.

Why? \_\_\_\_\_

### Scenario IV

In Europe, a woman was near death from a special kind of cancer. There was one drug that the doctors thought might save her. It was a form of radium that a druggist in the same town had recently discovered. The drug was expensive to make, but the druggist was charging ten times what the drug cost him to make. He paid \$400 for the radium and charged \$4,000 for a small dose of the drug. The sick woman's husband, Heinz, went to everyone he knew to borrow the money and tried every legal means, but he could only get together about \$2,000, which is half of what it cost. He told the druggist that his wife was dying, and asked him to sell it cheaper or let him pay later. But the druggist said, "No, I discovered the drug and I'm going to make money from it." So, having tried every legal means, Heinz gets desperate and considers breaking into the man's store to steal the drug for his wife.

5	30. If you were Heinz, would you steal the drug? 0= No, I would not.10= Yes, I would.												
0	1	2	3	4	5	6	7	8	9	10			
C. 1		nst soc ly wou	iety's ru ld be le	ules t down	if I did.		v would	n't you	?				
32. Is it 0= M 0	actually Io, it is 1 1	-	ll.	to steal 4	the druş 5	g? 6	7	8	9	10= Yes, it is. 10			

### 33. If it were okay for Heinz to steal the drug why would it be?

- A. N/A
- B. Heinz must to save a life.
- C. Society standards can be done away with when a life is in jeopardy.

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D. God would allow it in this case.

34. Does	34. Does Heinz have a duty or obligation to steal the drug?											
0= N 0	o, not at 1	all. 2	3	4	5	6	7	8	9	10= Yes, he does. 10		
	o, he sh	ould no	t.				C		Q	10= Yes, he should.		
36. If you A. N B. It C. M D. S	0 1 2 3 4 5 6 7 8 9 10 36. If you were Heinz, and you think it's wrong to steal the drug, why wouldn't you steal it? A. N/A B. It's against society's norms. C. My family raised me not to steal D. Stealing is a sin. E. Other											
strang		-		is not	his wife 5	e but	a strang 7	er. Sho 8	ould yo 9	ou steal the drug for the 10= Yes, he should. 10		
D. G	/A . M ociety w od wou	ly famil vould al ld want	y taugh low me me to	nt me lif e to, the save a l	e is mor ends jus	e impo stify th	nat is you ortant than ne means	an the l				
В. I С. Y	refuse to don't ca	o judge ire what I woul	him, w a strar d disres	vho am l 1ger doe spect hi	to judge es. m if he c	e?		2?				
40 Thinl	ring has	le oren	this di	lomme	what we	uld		a tha m	oct rec	ponsible thing for Using		

- 40. Thinking back over this dilemma, what would you say is the most responsible thing for Heinz to do in this situation?
  - A. He should steal the drug.
  - B. He should not steal and follow the law.

Why? \_\_\_\_\_