

# Replication Project

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## Contents

<b>1</b>	<b>Abstract</b>	<b>2</b>
<b>2</b>	<b>Introduction</b>	<b>3</b>
<b>3</b>	<b>Literature Review</b>	<b>4</b>
<b>4</b>	<b>Paper Review</b>	<b>4</b>
<b>5</b>	<b>Replication</b>	<b>4</b>
<b>6</b>	<b>Extension</b>	<b>6</b>
6.1	Extension 1: Correcting the Mistake on Figure 1 . . . . .	6
6.2	Extension 2: Average Treatment Effect by Party Strength Among Democrats rather than Republicans . . . . .	8
6.3	Extension 3: Binomial Regression instead of Linear on Barber and Pope's Figure 2 . . . . .	9
<b>7</b>	<b>Appendix</b>	<b>11</b>
<b>8</b>	<b>Conclusion</b>	<b>11</b>
<b>9</b>	<b>Bibliography</b>	<b>16</b>

# 1 Abstract

Barber and Pope (2018) show that the electorate is more influenced by party position than real ideology. I successfully replicated Barber and Poper's results. The results of the paper and the replication indicate that party loyalists vote in line with their leader, regardless of the political content of their leader's cues. More specifically, voters with low political knowledge, high partisanship, and high approval of their leader are more likely to support their leader's cues, regardless of the true ideological implications, even if they are not in line with the party's traditional views. I looked at Barber and Pope's regressions testing the causal effect of conservative and liberal cues from President Trump on Republican, Democrats, and Independents with varying levels of political knowledge, partisanship, approval of Trump, and political ideology. I took the regression on partisanship and knowledge as well as the overall regression of average cue response among all political identities and ran a more robust binomial regression as well as corrected for a mistake in the first figure of the paper. I found that party loyalists are not necessarily ideological loyalists and, more specifically, that many Republican Trump supporters respond positively to liberal or conservative cues from Trump but not necessarily from others. This finding forces Americans to rethink the importance of parties and the ideological strength of their positions.

## 2 Introduction

My replication paper will be looking at Michael Barber and Jeremy C. Pope’s paper, “Does Party Trump Ideology? Disentangling Party and Ideology in America” which was published in the American Political Science Review in 2018. The paper tests whether citizens truly use their policy views to choose a partisan affiliation and if they see partisanship as more of a social identity. The paper asks: “how sincerely held are expressed political and policy opinions and are these opinions based on ideological convictions, or group loyalty?”<sup>1</sup> The authors use Trump’s unusual presidency to answer these questions. Since President Trump is both the leader of the GOP as well as a president that endorses both liberal and conservative views, the authors test the effect of Trump’s political stances on voters’ political stances.

The authors’ main hypothesis asserts that the influence of President Trump will demonstrate the existence of a large bloc of party loyalists in the electorate when his influence moves opinion in either a liberal or conservative direction based on his political cue. Those who are most likely to be party loyalists have a lack of knowledge about the party’s traditional views and a lack of self-proclaimed “symbolic ideological commitment.” Their null hypothesis is that Trump’s cue has no effect on subgroups. They have four specific hypotheses that fall under their main hypothesis: 1. **Knowledge Hypothesis:** Only the those with less knowledge should react to the cue and behave as party loyalists presumably because the knowledgeable gain little from the treatment (political cue). 2. **Partisan Hypothesis:** Strong party affiliates that share party with the cue-giver are more likely to be party loyalists. 3. **Approval Hypothesis:** Those who approve of the cue-giver should be more likely to be party loyalists. 4. **Symbolic Ideology Hypothesis:** Self-described conservatives should hold firm to their presumed beliefs and are less likely to be party loyalists because they stick with their self-described policy tenets.

These hypotheses are tested by running a variety of regressions on data collected from surveys. Subjects were split into two groups, control and treatment, and asked about 10 political issues with clear partisan positions. The authors chose questions that capture policy issues in which Trump has taken either a conservative stance or a liberal stance. The control group was asked if they agree with a policy. The treatment group was asked if they agree with a policy after being prompted that Trump endorses this policy. Using this data, the authors ran linear regressions, which I replicated using R, that explained subjects’ support of policies using their partisanship, approval of the president, political knowledge, and symbolic ideology.<sup>2</sup> The authors conclude, and I confirm, that all of their hypotheses hold true except the symbolic ideology hypothesis. They found that people who most strongly described themselves as conservative most strongly answered the Trump cues (both liberal and conservative). I extend this analysis by running binomial regressions which demonstrate more robust relationships. I also correct a mistake in one of the figures from the published paper.

I find that the authors’ first three hypotheses are indeed correct - those with lower political knowledge, higher partisanship, and higher approval tend to respond more strongly to a cue-giver, regardless of the ideological basis of the cue. Like the authors, I also conclude that those with higher ideological levels are actually more partisan in their response to cue-givers: even if a fellow partisan cue-giver demonstrates a nontraditional policy position, those with strong self-identified ideologies are more likely to respond to the cue. These conclusions all point to the fact that parties are becoming more of a social identity and that ideology is being displaced by partisan affinity. This has major implications for the future of the party system and the way that candidates campaign. It seems that they are catering to a social cohort rather than an ideological community.

All analysis for this paper is available at my Git hub profile and the original data is available on Data verse.<sup>3</sup>

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<sup>1</sup>1, Barber and Pope

<sup>2</sup>R

<sup>3</sup>[https://github.com/carine-h/milestone\\_5](https://github.com/carine-h/milestone_5), <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/38BFML>

### 3 Literature Review

There is an increasing amount of discussion around the legitimacy of partisan identification in terms of its ideological significance. Barber and Pope are just two of many authors noticing the decline of the ideological salience of partisanship and the populations more susceptible to this phenomenon. Zaller and Feldman (1992), for instance, discuss the weakness of voters' ideological preferences: "Most citizens, we argue, simply do not possess preformed attitudes at the level of specificity demanded in surveys. Rather, they carry around in their heads a mix of only partially consistent ideas and consideration." Rather, they feel that voters operate based on pre-conceived judgements and generalizations. With respect to Barber and Pope's findings, this means that the American electorate uses partisanship and ideology as masks for their own personal notions and prejudices.

Iyengar and Westwood (2015) mark the rise of party identity in American life, making Barber and Pope's conclusions ever more salient. According to their study, partisan polarization is as strong as racial polarization and has implications on nonpolitical judgements about members of the opposite party.<sup>4</sup> Taken with the Barber and Pope results, this could mean that cue-givers are merely partisan symbols, decreasing the importance of the actual content of their cues. This also reinforces the idea that partisanship dictates policy positions.

### 4 Paper Review

The authors offer four hypotheses under the broader hypothesis that partisanship and policy preference are highly intertwined. That is, partisan loyalty dictates ones policy preferences. So, for instance, a strong Republican will support liberal or conservative policies if endorsed by President Trump. It is worth noting that the authors recognize the fact that the Trump influence they see on Republicans cannot be differentiated from the "presidency effect." Overall, however, the data shows that partisanship is on average stronger than policy ideals.

To reiterate, here are the four hypotheses:

1. **Knowledge Hypothesis:** Only the those with less knowledge should react to the cue and behave as party loyalists presumably because the knowledgeable gain little from the treatment (political cue).
2. **Partisan Hypothesis:** Strong party affiliates that share party with the cue-giver are more likely to be party loyalists.
3. **Approval Hypothesis:** Those who approve of the cue-giver should be more likely to be party loyalists.
4. **Symbolic Ideology Hypothesis:** Self-described conservatives should hold firm to their presumed beliefs and are less likely to be party loyalists because they stick with their self-described policy tenets.

The authors confirm the first three, finding that those with lower political knowledge, higher partisanship (Republican), and higher approval of the President respond to his cues, both liberal and conservative.

The fourth, hypothesis, however, turns out to be wrong. The authors find that self-described conservatives with stronger ideological identifications are actually more prone to response to support conservative and liberal policies from President Trump. This means that ideology has become less moral and philosophical, but more social.

### 5 Replication

I was able to replicate the Interactions Models table (Table 1) and Figures 1-5 which test each of the hypotheses in the paper. The only issue I ran into was in Figure 1: Average Treatment Effect of Policy Cues.

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<sup>4</sup>Iyengar

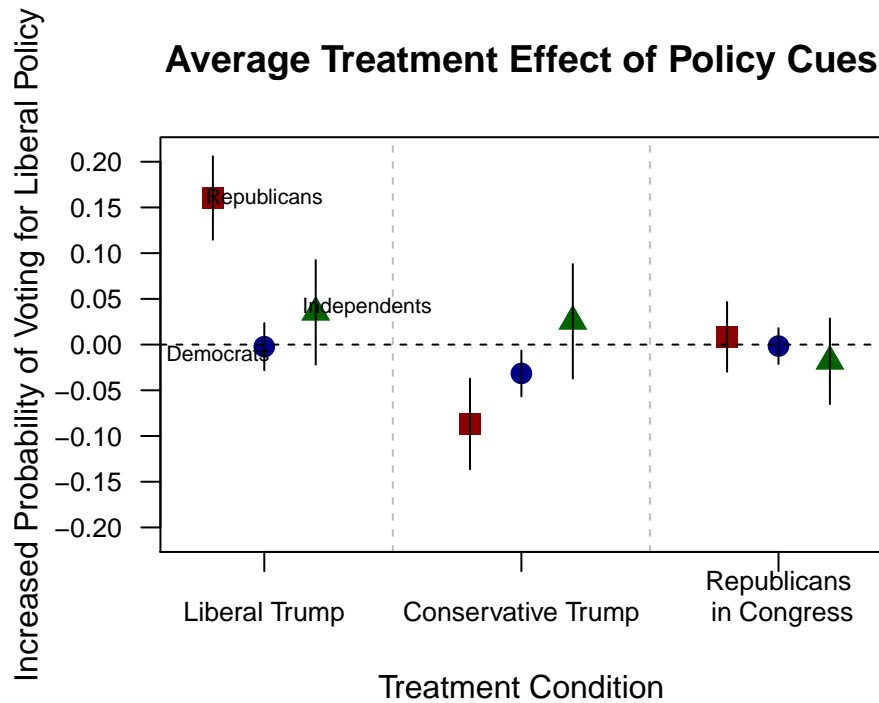


Figure 1: Each point represents the effect on the policy cue on a political group. The effect is the coefficient extracted from a linear regression that uses conservative or liberal Trump cues (or GOP congressional cues) with a racial control to predict support for a policy. For instance, the first point is the coefficient for the liberal Trump cue when the data was filtered for just Republicans. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The most significant effects are seen among Republicans when given conservative and liberal Trump cues. I corrected for the mistake on the Republican point under Republican in Congress treatment. In the original figure it was listed as a 0.03 conservative shift. Yet the true effect was 0.008 which is a very slight liberal shift indicative of little to no effect from a GOP cue on Republicans. Below is a screenshot of the original figure in the paper for comparison.

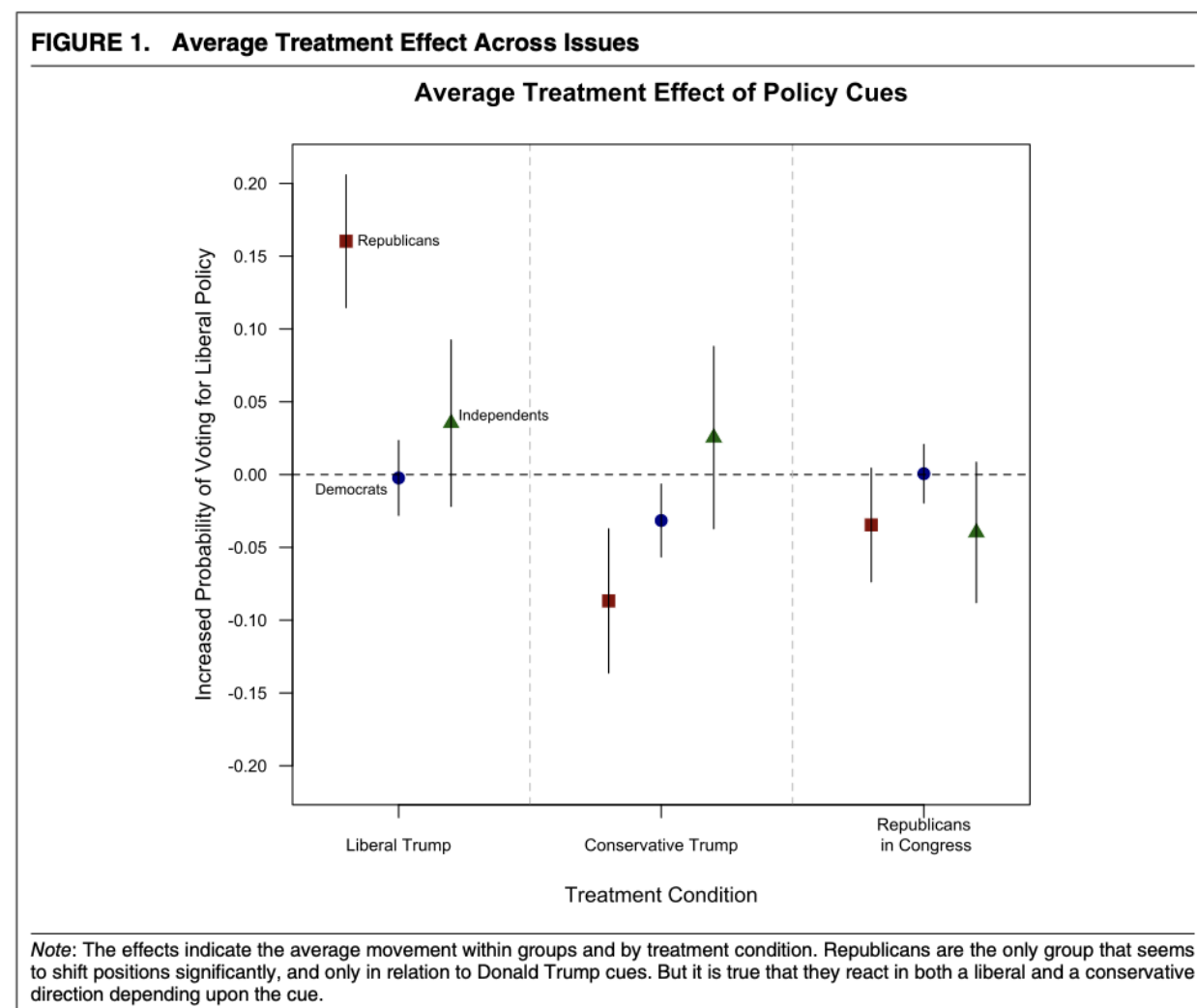
This table claims that cues from GOP leaders on Republicans make Republicans about 3% less likely to vote liberal. This is not consistent with the outcome of the authors' regression which shows that Republicans were slightly more likely to vote liberally. I presented this mistake to the authors and they verified my findings.

## 6 Extension

In the extension, I will be addressing a plotting issue in Figure 1, expanding the test of partisanship to Democrats as well as Republicans in Figure 3, and using `stan_glm` and a binomial regression on Figure 3.

### 6.1 Extension 1: Correcting the Mistake on Figure 1

To begin, I will address the issue with Figure 1, which I describe above. I have actually already addressed it in the replication done above. Essentially, the regression result is not consistent with the outcome plotted in the graph. This could be an important addition to the findings in the paper - Republicans actually have a very slight aversion to cues from GOP leaders. This depends the authors' findings that partisan identity may be more of a group identity rather than an ideological marker.



I found one mistake - the coefficient for Republicans in Congress on the Republican subset is displayed as

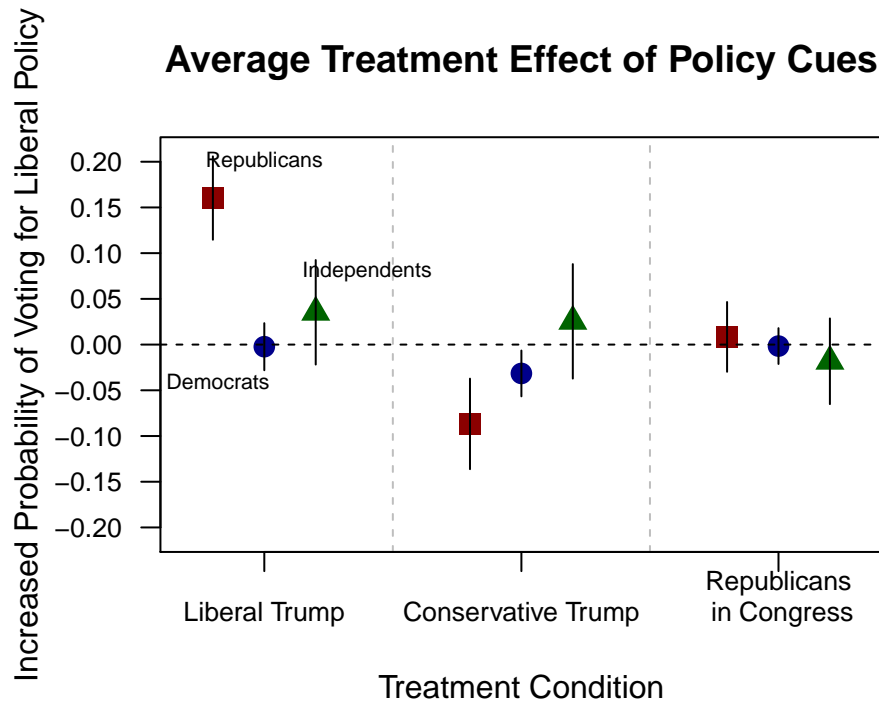


Figure 2: Each point represents the effect on the policy cue on a political group. The effect is the coefficient extracted from a linear regression that uses conservative of liberal Trump cues (or GOP congressional cues) with a racial control to predict support for a policy. For instance, the first point is the coefficient for the liberal Trump cue when the data was filtered for just Republicans. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The most significant effects are seen among Republicans when given conservative and liberal Trump cues. I corrected for the mistake on the Republican point under Republican in Congress treatment. In the original figure it was listed as a 0.03 conservative shift. Yet the true effect was 0.008 which is a very slight liberal shift indicative of little to no effect from a GOP cue on Republicans. Below is a screenshot of the original figure in the paper for comparison.

about -0.03 probability of voting for liberal policy while the regression tells us that it is actually about 0.008. I correct this in my figure.

## 6.2 Extension 2: Average Treatment Effect by Party Strength Among Democrats rather than Republicans

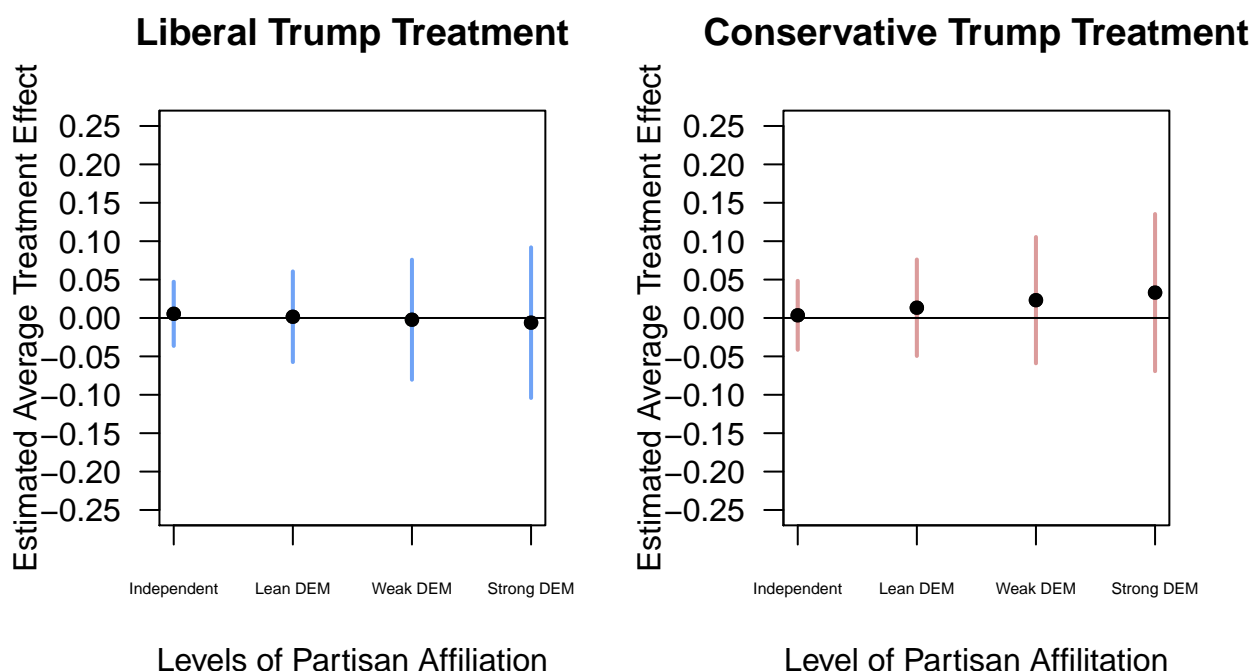
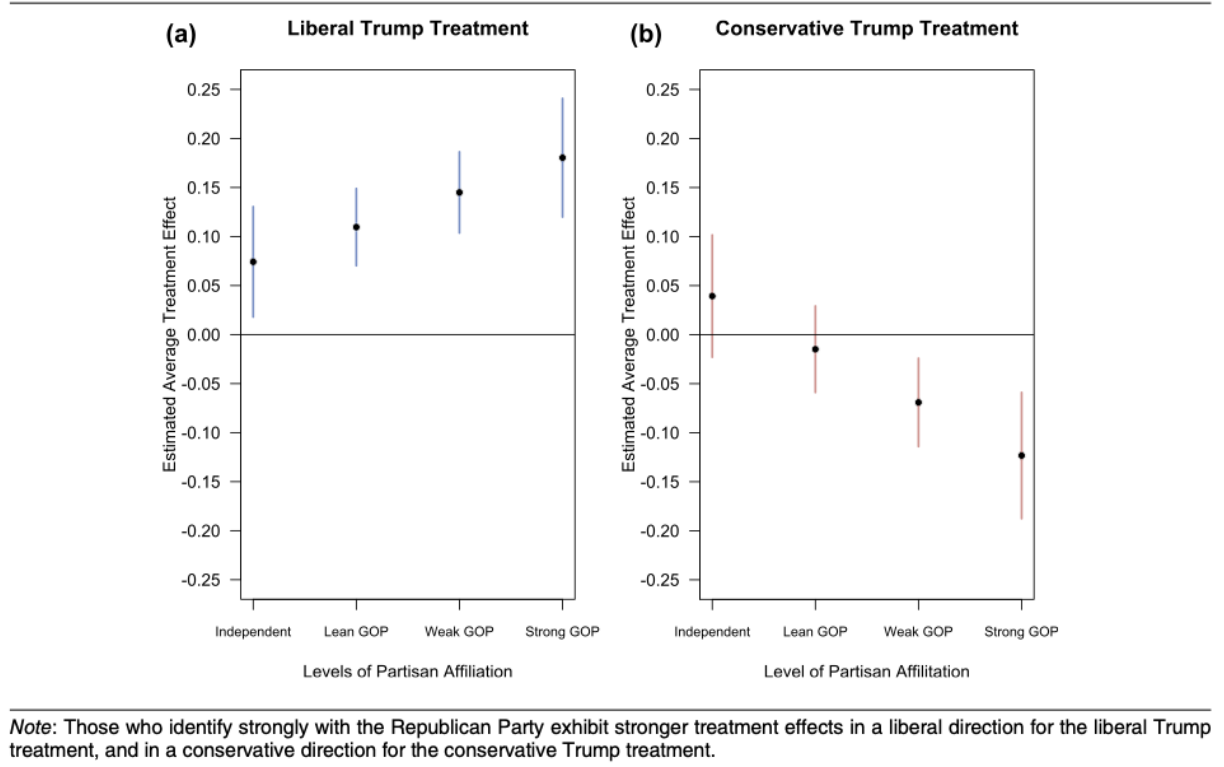


Figure 3: This figure looks at the effect of Trump cues on Democrats at different levels of self-reported partisanship. This differs Barber and Pope's figure 2 because it tests the effect of Trump cues on different levels of Democratic partisanship rather than among Republicans. The left panel represents a conservative cue and the right represents a liberal cue. The effect of the cue is the coefficient extracted from a linear regression that uses conservative (or liberal) Trump cues, partisanship, a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The figure shows that a liberal Trump cue has little to no effect on Democrats while a conservative Trump cue seems to make stronger Democrats act more liberally. However, the uncertainty increases with the level of partisanship rendering this trend inconclusive.



**FIGURE 3. Average Treatment Effect by Republican Party Strength**



In order to see if the relationship between Trump cues and partisanship is only exclusive to Republicans, I would like to run a similar model using partisanship levels among Democrats. This would mean repeating the steps done in Figure 2, but testing the cue's effects on partisanship levels from 1-4 (very Democrat to Independent). I predict that there will be a different effect given the fact that Democrats would be answering cues from Trump. Therefore, I expect there to be some sort of aversionary effect: even if Trump advocates a liberal policy, they will support it less than their Republican counterparts at the same level of partisanship just because the cue is from the a Republican leader (especially one as polarizing as Trump).

The results show that Democrats of different partisan levels (Independent to strong Democrat) do not respond significantly to conservative or liberal Trump cues. There is an interesting trend among different levels of Democrats when given a conservative cue: as partisanship becomes more Democrat, Democrats are more and more likely to vote liberally when given a conservative cue. It is important to note, however, that uncertainty is greatest at the strongest level of Democrat. Liberal cues, however, have almost no effect on different levels of partisanship to the left.

### 6.3 Extension 3: Binomial Regression instead of Linear on Barber and Pope's Figure 2

Finally, I want to take Figure 2 and see if I can create a more robust model. These regression models are currently linear and use interactions to predict the outcome of a cue given something like partisanship, ideology, etc. The authors then use the predict function to predict support of a policy and to find the causal effect of receiving a cue by subtracting the response outcome for the treated from a fake data set of untreated individuals. I believe that by using a binomial regression and the posterior\_linpred function, I could create a more robust model and prediction, thus achieving a more accurate causal effect.

Whereas the authors perform an OLS regression - a Frequentist approach - I use an Bayesian approach. The Frequentist approach can be useful as it looks just at the data given to illustrate trends and draw conclusions.

The Bayesian approach, however seems to be more robust as it uses prior information when making inferences, meaning that it does not merely summarize, but models future outcomes as well. Moreover, in a Bayesian approach, all inferences are “probabilistic and can be represented by random simulations” which is beneficial when summarizing uncertainty or using “regression models for predictions.” Andrew Gelman (2019)

In Figure 2, Barber and Pope use the predict function to model different treatment outcomes (response to cue) given different levels of political knowledge among Republicans. Since I am using a Bayesian approach as well as a binomial regression, I use posterior\_linpred which, according to Gelman et al. “returns a sector of posterior simulations whose mean will equal the point prediction obtained... and whose standard deviation represents uncertainty in the fitted model.” Andrew Gelman (2019) I believe that this, coupled with the binomial regression, is a far more robust prediction method. Moreover, the authors are using a linear regression to predict a binary variable of support (survey respondents answer yes or no). Therefore, I chose to use a binomial regression instead as it is a more robust fit for the modeling of a binary dependent variable.

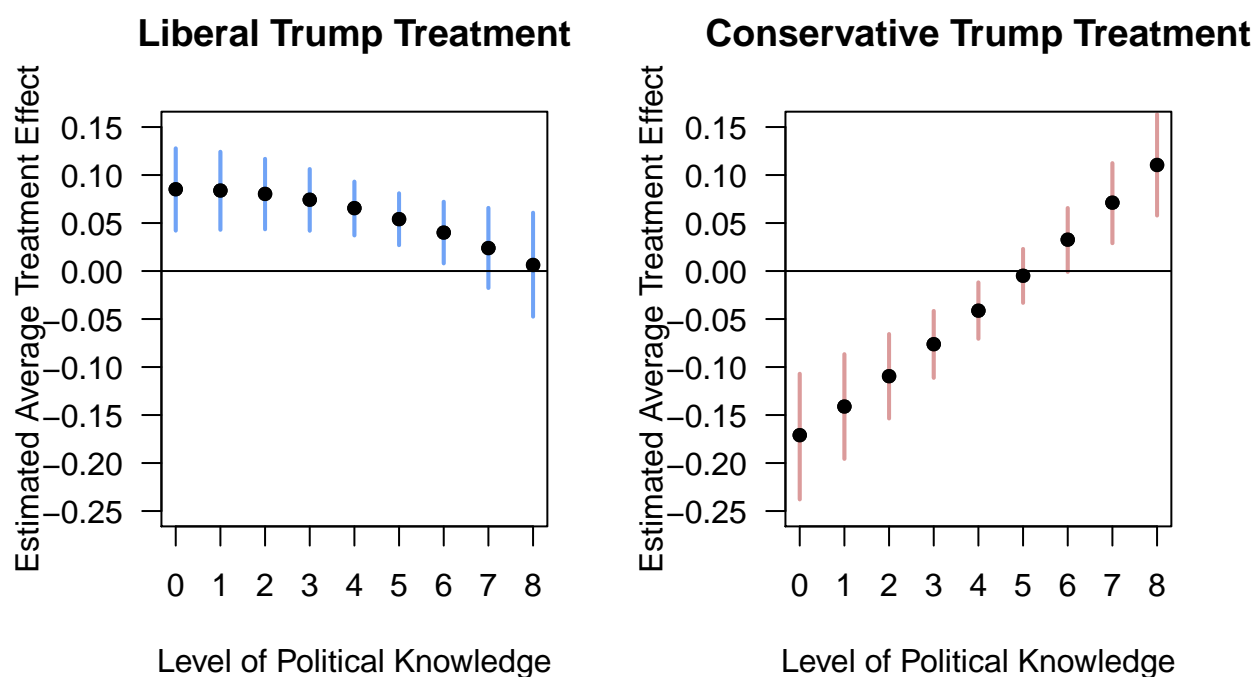
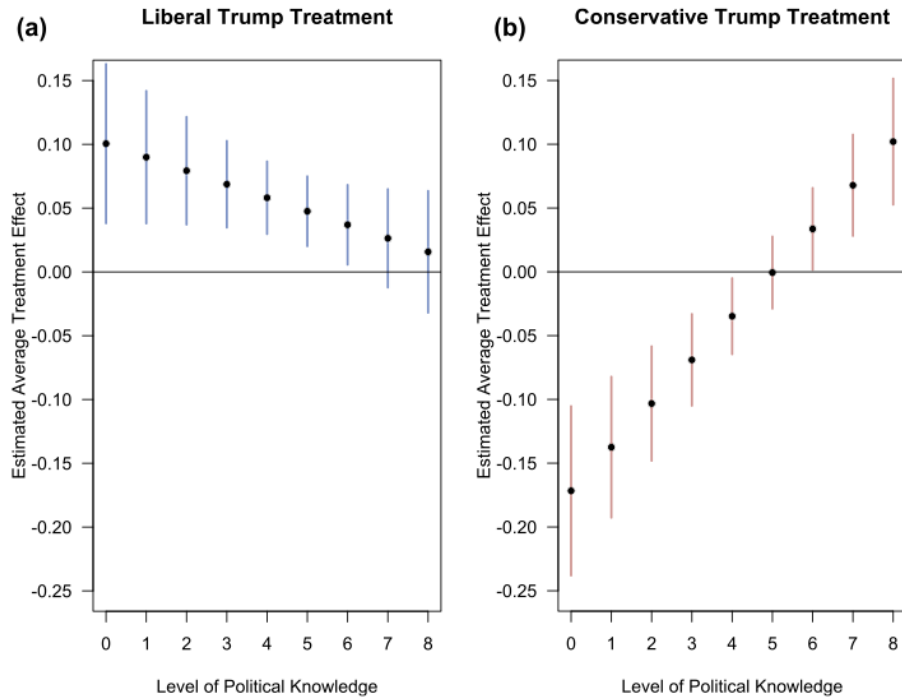


Figure 4: In this figure I take Barber and Pope’s Figure 2 and use a binomial regression instead of a linear regression. I also use posterior prediction (a Bayesian technique) to predict outcomes and uncertainty. The left panel represents a conservative cue and the right represents a liberal cue (both on Republicans). The effect of the cue is the coefficient extracted from a binomial regression that uses conservative (or liberal) Trump cues, partisanship, a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent credible intervals for each predicted treatment effect. I calculated these using a posterior prediction.

**FIGURE 2. Average Treatment Effect by Political Knowledge**



*Note:* This figure displays the estimated treatment effect by levels of political knowledge. The left panel shows the effects of the liberal Trump treatment across levels of political knowledge. Higher values indicate a movement in a more liberal direction. The right panel shows the effects of the conservative Trump treatment across levels of political knowledge. Lower values indicate movement in a more conservative direction. Knowledge is clearly correlated with the treatment effect—higher knowledge respondents are less likely to respond to the cue, in either direction.

## 7 Appendix

The results from Barber and Pope (2018) were successfully replicated.<sup>5</sup>

## 8 Conclusion

This report replicates the results from Barber and Pope’s (2018) “Does Party Trump Ideology? Disentangling Party and Ideology in America.” This question explores the relationship between partisanship and ideology. Using President’s Trump’s liberal and conservative statements, Barber and Pope test to see if partisans remain loyal to their party’s traditional political stance or their own self-reported ideological stance when given both a liberal and conservative treatment. Barber and Pope found that Republicans with low knowledge, high partisanship, high approval of Trump, and a strong self-described conservative ideology are likely to support both conservative and liberal policies when endorsed by President Trump. This suggests that party loyalty is more indicative of one’s views than their self-reported ideology. Using R and the data and code from Barber and Pope on Harvard University’s Dataverse, I replicated their main tables and verifies the findings above.<sup>6</sup> I also extend the findings of this paper. First of all, I correct a mistake in Figure 1. Secondly, I test the partisanship hypothesis on Democrats rather than Republicans. Lastly, I use a binomial regression to test the partisanship hypothesis instead of a linear regression.

<sup>5</sup><https://github.com/carine-h/replication-project>

<sup>6</sup><https://github.com/carine-h/replication-project>, <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/38BFML>

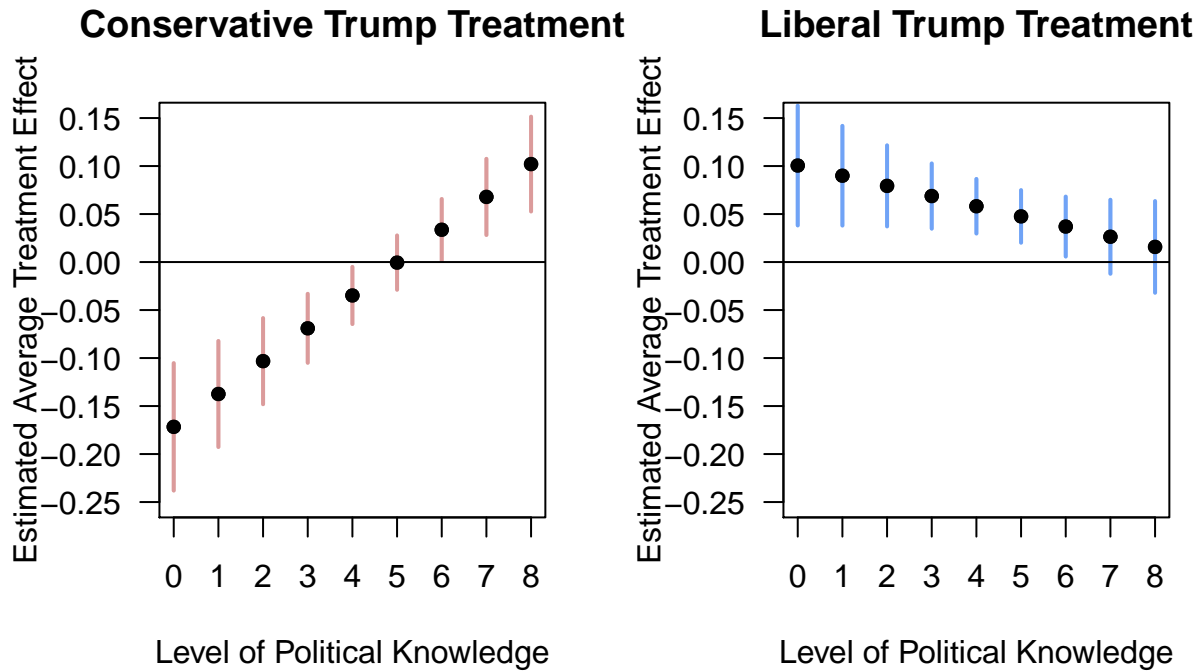


Figure 5: This figure looks at the effect of Trump cues on Republicans at different levels of self-reported political knowledge. The left panel represents a conservative cue and the right represents a liberal cue. The effect of the cue is the coefficient extracted from a linear regression that uses conservative (or liberal) Trump cues, political knowledge, and a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The figure shows that Republicans with lower political knowledge are most likely to support a Trump cue, whether conservative or liberal.

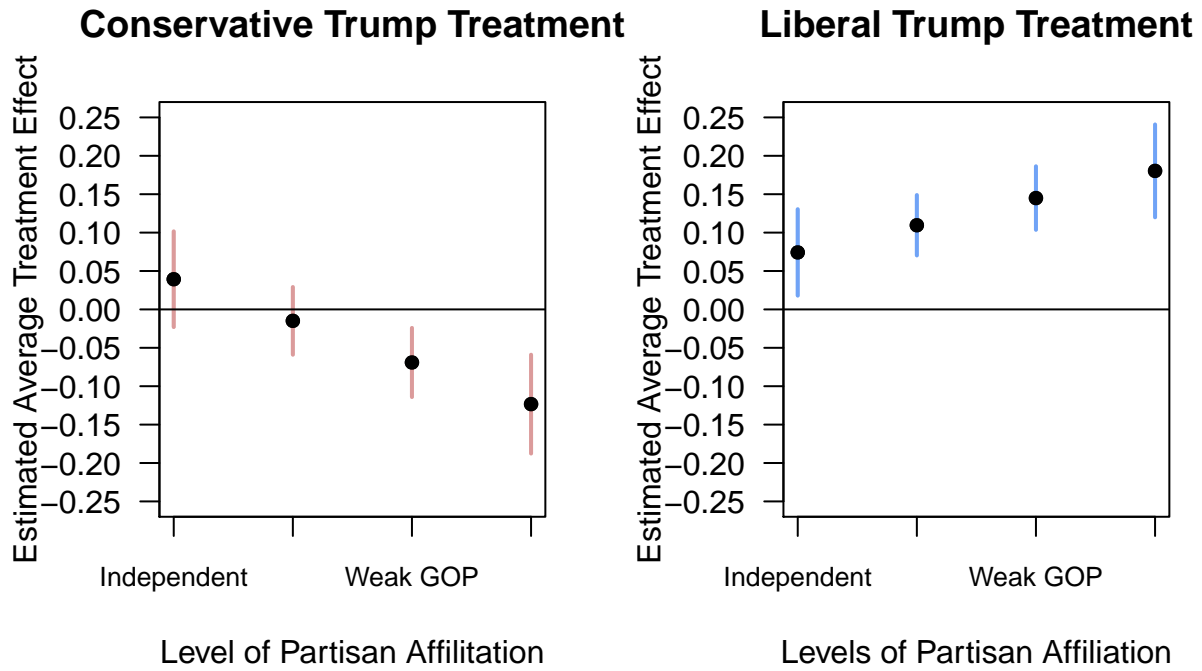


Figure 6: This figure looks at the effect of Trump cues on Republicans at different levels of self-reported partisanship. The left panel represents a conservative cue and the right represents a liberal cue. The effect of the cue is the coefficient extracted from a linear regression that uses conservative (or liberal) Trump cues, partisanship, a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The figure shows that Republicans with stronger partisanship are most likely to support a Trump cue, whether conservative or liberal.

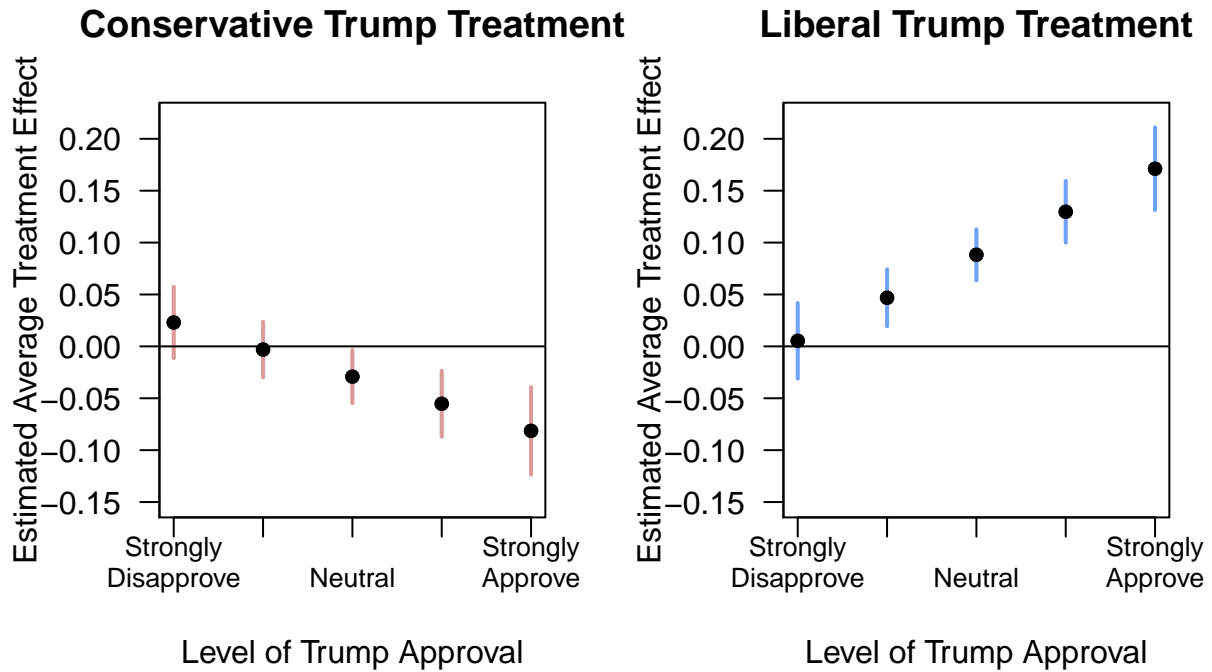


Figure 7: This figure looks at the effect of Trump cues on Republicans at different levels of self-reported approval of the President. The left panel represents a conservative cue and the right represents a liberal cue. The effect of the cue is the coefficient extracted from a linear regression that uses conservative (or liberal) Trump cues, approval rating, and a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The figure shows that Republicans with stronger approval of Trump are most likely to support a Trump cue, whether conservative or liberal.

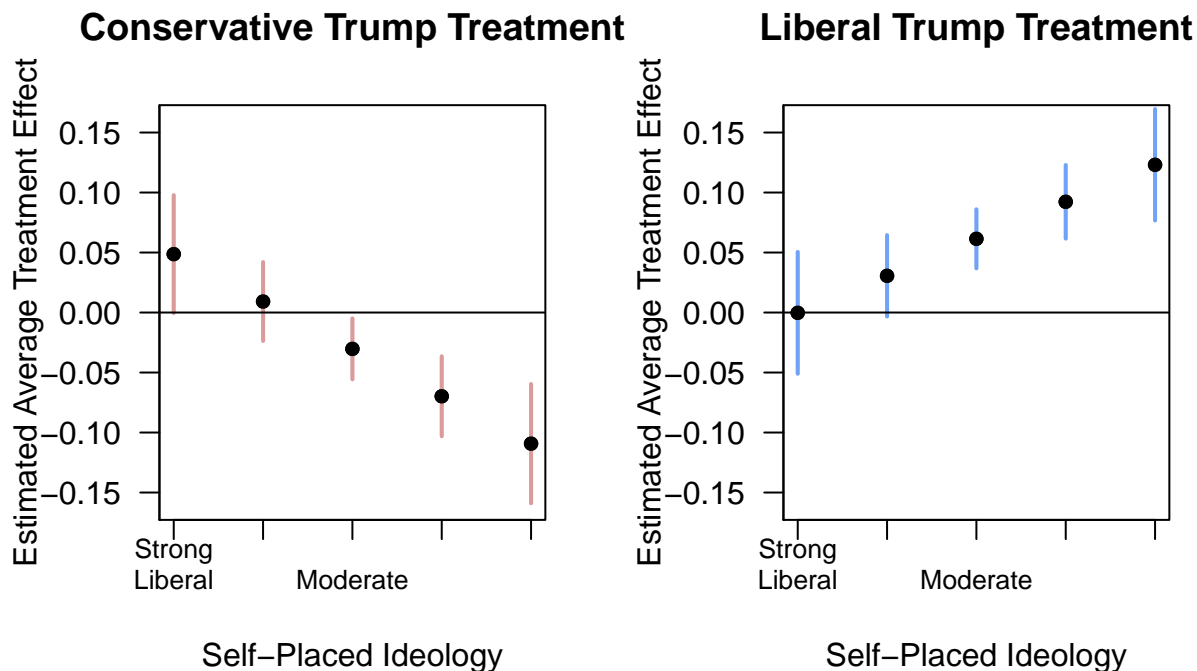


Figure 8: This figure looks at the effect of Trump cues on Republicans at different levels of self-reported ideological strength. The left panel represents a conservative cue and the right represents a liberal cue. The effect of the cue is the coefficient extracted from a linear regression that uses conservative (or liberal) Trump cues, ideological strength, and a racial control to predict support for a policy. The vertical axis represents the increased probability of voting for a liberal policy. Positive values indicate a liberal shift while negative values indicate a conservative shift. The horizontal axis represents increasing partisanship. The black bars represent the 95 percent confidence interval for each predicted treatment effect. The figure shows that Republicans with stronger self-reported ideology are most likely to support a Trump cue, whether conservative or liberal. This means that ideology is becoming more indicative of partisanship than true views. It has, perhaps, become less moral and philosophical, but more social.

## 9 Bibliography

The Github repo for this milestone is online.<sup>7</sup> Here is an in text citation for the paper I am replicating as well as its Dataverse data: Michael Barber (2018a) and Michael Barber (2018b). Here is an in text citation for the stargazer package I use: Hlavac (2018). I used this paper for supplementary information: Gary King (2000). Finally, I use many techniques from our textbook: Andrew Gelman (2019).

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———. 2018b. *Replication Data for: Does Party Trump Ideology? Disentangling Party and Ideology in America*. <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/38BFML>.

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<sup>7</sup>[https://github.com/carine-h/milestone\\_6](https://github.com/carine-h/milestone_6)