

# What to Expect When You're Electing: Citizen Forecasts in the 2020 Election

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## Abstract:

Political divisions in the lead-up to the 2020 US presidential election were large, leading many to worry that heightened partisan conflict was so stark that partisans were living in different worlds, divided even in their understanding of basic facts. Moreover, the nationalization of American politics is thought to weaken attention to state political concerns. 2020 therefore provides an excellent, if difficult, test case for the claim that individuals understand their state political environment in a meaningful way. Were individuals able to look beyond national rhetoric and the national environment to understand state-level electoral dynamics? We present new data showing that, in the aggregate, despite partisan differences in electoral expectations, Americans are aware of their state's likely political outcome, including whether it will be close. At the same time, because forecasting the overall election outcome is more difficult, Electoral College forecasts are much noisier and display persistent partisan difference in expectations that do not differ much with state of residence.

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The lead-up to the 2020 election provided a stark setting for understanding contemporary political divisions in the United States. In popular (e.g. Rutenberg 2020) and academic commentary (e.g. Cornwall 2020), there was widespread concern that partisan divisions substantially heightened the contest's perceived stakes. Indeed, partisanship is seen as divisive not just because it correlates with beliefs and preferences, but because it is also believed to shape what information individuals encounter (e.g. Garrett and Stroud 2014, Peterson and Iyengar 2021) and the biased way in which they process it (e.g. Jerit and Barabas 2012, Groenendyk and Krupnikov 2021, Druckman et al. 2021). Some are concerned that these forces are so strong that partisans effectively inhabit different worlds, divided even in their understanding of basic facts (e.g. Gaines et al. 2007).

Against this backdrop, the stakes of losing an election are likely to be perceived as extremely large, and the other side's victory can be cast as "cheating" by the other side (e.g. Stewart and Sances 2015, Sinclair et al. 2018, Alvarez et al. 2021). Indeed, in the lead-up to the election, both Democratic (e.g. Grove 2020) and Republican (e.g. Hakim and Saul 2020) elites preemptively raised arguments that would frame their own defeat as illegitimate. Nationalized political conflict is part of a broader trend in which local, state, and regional-level differences in party positions and policy conflict are supplanted by more uniform nationalized political conflict. Nationalization, reinforced by media coverage focused on national conflict at the expense of local candidates is thought to further weaken attention to local political concerns (e.g. Hopkins 2018).

In light of this setting, the 2020 campaign provides an important, if difficult, test case for the claim that individuals meaningfully understand their state political environment and the distinction between that environment and the national electoral contest. Following the widespread failure of pre-election polls in 2016 to predict state-level outcomes that led to President Trump's

unexpected victory, many individuals expressed widespread concerns about the accuracy of traditional polling reports (e.g. Madson and Hillygus 2020). Moreover, 2020 presents an interesting case for Americans to accurately appraise their political environment since national surveys indicated large portions of both candidates' supporters doubted published information about the state of the race.<sup>1</sup>

As politics become more nationalized, and in turn more polarized, one might expect citizens to be unable to accurately make sense of their own political contexts. Increases in the nationalization of American politics have been associated with greater party loyalty and negative partisanship in the electorate (e.g. Abramowitz and Webster 2016). In turn, these phenomena have been associated with a greater likelihood of exposure to partisan slanted information (e.g. Ahler and Sood 2018). Additionally, voters may project national trends onto their home states or partisan bias may influence their perceptions of their local political environment.<sup>2</sup> But were individuals able to look beyond national rhetoric and the national environment to understand state-level dynamics? What did individuals expect to happen when they were electing? And if individuals do understand their own state environment, how do these beliefs inform, if at all, the much more difficult task of forecasting both the Electoral College outcome and the national popular vote?

In this note we present new data about citizen expectations about both their state and national level outcomes in the 2020 election. Our work is inspired by studies that have used individual-level forecasts (i.e., who will win the election) rather than traditional polls (i.e., who

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<sup>1</sup> <https://apnews.com/article/election-2020-joe-biden-donald-trump-public-opinion-misinformation-31803b4dee9318463966f0037d2ad06c>

<sup>2</sup> Although, see Uhlener and Grofman (1980) on the ability of partisans to accurately identify the closeness of an election and Leiter et al. (2018b), examining the German context, on how social networks may explain and can temper partisan differences in expectations about election outcomes. More generally, we remain agnostic about the sources of partisan differences in electoral expectations.

will you vote for) to forecast election outcomes (e.g. Miller et al. 2008, Graefe 2014, Leiter et al. 2018ab, Johnston et al. 2019, Murr and Lewis-Beck 2020, Murr et al. 2021). Many of these studies have demonstrated that at the national level, the wisdom of crowds tends to manifest, more so in less close elections (e.g. Lewis-Beck and Skalaban 1989, Lewis-Beck and Tien 1999). Others have focused directly on state-level predictions but have found mixed evidence that voters are grounded in reality. For example, Murr (2015) finds that Americans were quite accurate in predicting their own state's presidential outcomes in 2012, but Lewis-Beck and Murr's found less accurate state-level forecasts in the summer of 2020 for the upcoming presidential contest (2020).<sup>3</sup>

This prior work lays the foundation for our own study. In an environment with even greater partisan polarization and continued nationalization of American elections, which pattern persists? We focus on the 2020 election, draw from a representative sample, and separately ask about forecasts for state- and national-level outcomes. In this way, we can learn if Americans are able to distinguish between national political outcomes and state political environments and assess how tightly coupled these forecasts are. Moreover, in addition to examining the average accuracy of forecasts, we also investigate acknowledge uncertainty in forecasting. Our key theoretical question is whether partisan divisions and nationalization are so stark as to render citizens' knowledge of their own political environment meaningless in forecasting state-level outcomes. Effectively, can the wisdom of crowds persist in this nationally polarized environment? Do individuals accurately understand the greater uncertainty of state-level forecasts in more competitive states? Additionally, we ask whether individuals are able to answer an even harder question, who will win the national election, and whether answers to those questions are influenced by state-level context.

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<sup>3</sup> There is also a rich related literature examining the individual-level correlates of forecast accuracy (see, for example, Murr 2015).

While we present evidence that average perceptions of political environments are quite grounded in reality, we note that partisan differences still exist. Furthermore, we also acknowledge the limitations of relying on small state samples to reliably predict election outcomes. Our contribution in this paper is not to provide a novel forecasting method; instead, we take advantage of a salient partisan political moment to understand if citizens' views of contemporary politics are entirely nationalized.

### **How Well Can Citizens Predict State and National Election Outcomes?**

Data for this project were gathered on a private team module fielded on the 2020 pre-election wave of the Cooperative Congressional Election Study (CCES).<sup>4</sup> The survey was conducted by YouGov in the lead up to the presidential election. We asked 1,000 survey respondents three questions about whom they expected to win the upcoming presidential election in their home state, the national popular vote, and the Electoral College. They provided their predictions on a five-point scale, with 1 indicating that it was “extremely likely” that Trump would win and 5 indicating that it was “extremely likely” that Biden would win. A value of 3 corresponds to the panelist believing it was “equally likely” that either would win. The CCES also gathered information on respondents' home state, sex, education, age, income, and partisan identification,

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<sup>4</sup> One concern about the CCES sample is that it may be composed of those who are more interested in politics. This difference does not appear to be large compared to the 2020 ANES, however. For example, in the ANES, 63% of respondents reported that they “Always” or “Most of the time” paid closed attention to politics and elections, whereas in the CCES 56% of respondents had a similar level of interest (exact question wording differed across surveys). Additionally, our results are not sensitive to weighting, and estimating the model separately for those with high and low knowledge does not appear to produce different results (See footnote 6 below). In part, this may be because, as with prior work, individuals who do not make a prediction are excluded from the prediction analysis shown in Figure 2, although we do separately examine uncertainty.

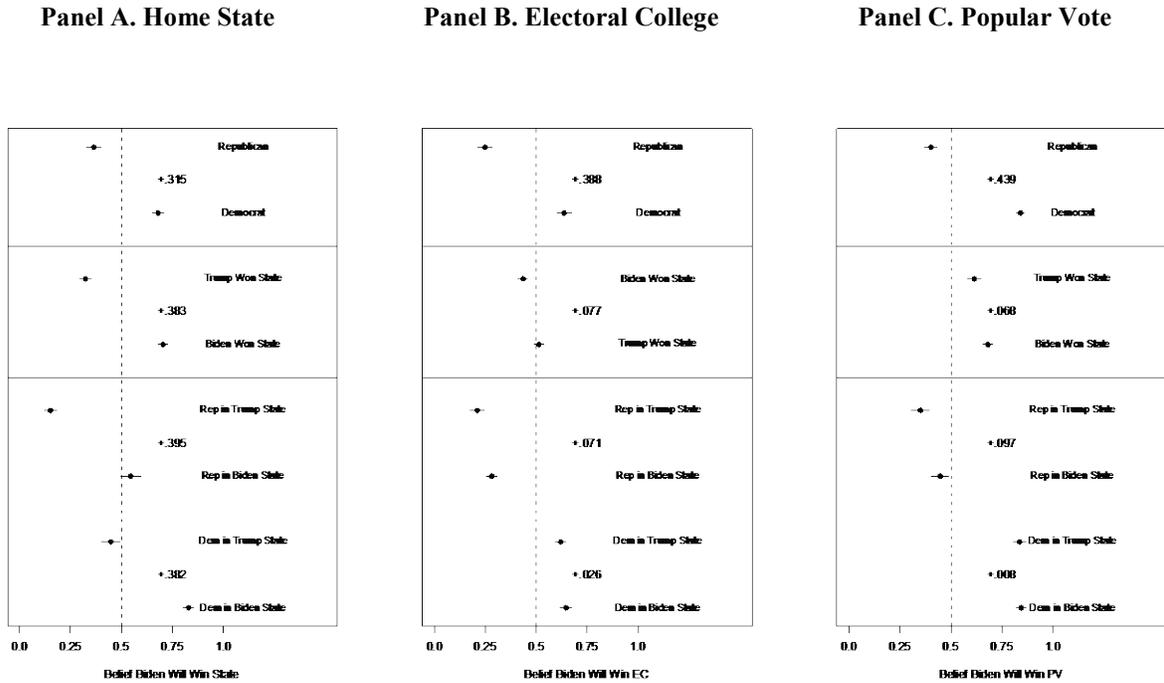
which we use in our analyses. Finally, YouGov provides poststratification weights for weighting to a nationally representative population.

### *Survey Respondents On Average Understand State Context*

Figure 1 presents the average response and associated 95% confidence interval for each of the three forecasting questions in separate panels. For these analyses we rescale the variables so 0 corresponds to the highest level of confidence that Trump will win, 1 corresponds to the highest level of confidence that Biden will win, and 0.5 means the respondent is uncertain. Each panel also displays the average subsetted by respondent partisanship, whether the panelist lives in a state won by Donald Trump or Joe Biden, and the combination of these two categories.

Panel A displays the average levels of confidence for the home state question. The top portion of the panel shows that on average, Democrats are significantly more likely to have higher levels of confidence that Biden will win their state. The mean difference between Democrats and Republicans is 0.315 on the 0 to 1 scale, suggesting large differences in expectations about state outcomes between opposing partisans. However, this difference may arise due to true partisan difference in expectations, expressive responding (e.g. Bullock et al. 2015), or differences in where partisans live on average (e.g. Brown and Enos 2021). When we examine who actually won the state in which a respondent lives, as in the middle portion of the panel, however, we find that those respondents who lived in Trump states were much less likely to indicate that Biden would win than those who lived in Biden states. This difference of 0.383 on the 0 to 1 scale is larger than the average difference between partisans. This difference is also compatible with multiple expectations, including knowledge of state context and different mixes of partisans across states, but it provides strongly suggestive evidence that partisans are not blind to their political context.

**Figure 1. Aggregate Predictions for the 2020 Election by Party and State Outcome**



In panel A, we present the mean value for the question “Who do you think will win your state’s popular vote in the upcoming election?” Responses were provided on a five-point scale. We have rescaled the values so that 0=Certainly Donald Trump, and 1=Certainly Joe Biden.” Values closer to zero indicate the group was more likely to say Donald Trump would win. Values closer to zero indicate the group was more likely to say Joe Biden would win. In panel B, we present the mean value for the question, “Who do you think will win the Electoral College?” In panel C, we present the mean value for the question, who do you think will win the national popular vote?” The first subset of each panel displays the difference between Republicans’ and Democrats’ responses to each question. The second subset of each panel displays the difference between those panelists living in states Trump won and those panelists living in states Biden won. The final panel displays the differences between Republicans living in Trump states and Republicans living in Biden states and the differences between Democrats living in Trump states and Democrats living in Biden states. Source: 2020 Private CCES team module.

When we simultaneously examine the effect of respondent partisanship and home state as shown in the bottom portion of the panel, we find sizable gaps in reported expectations about who will win Trump rather than Biden states *among both Republicans and Democrats*. For example, among Republicans, those who live in a Biden (rather than Trump) state are 0.395 higher in their belief that Biden will win their state, and for Democrats the effect is similarly 0.382 units. That is, Republicans and Democrats give different home state predictions depending upon political context. They were not entirely driven by partisan differences in beliefs or expressive responding

when offering predictions about their home state. Nonetheless, there are still partisan differences holding fixed state context, on the order of 0.284 in states Biden won and 0.297 in states Trump won, although once again we note that these could arise due to sincere beliefs or expressive responding.

To further understand how expected state outcomes vary by state, we estimated a model using ordinary least squares regression (OLS) in which we predict each respondent's confidence that Biden would win their home state using indicators for state of residence.<sup>5</sup> We omit panelists who indicated they thought their state was a toss-up and created a binary outcome among those who expressed confidence that Trump (0) or Biden (1) would win their state. State averages are therefore the proportion of individuals who thought Biden (rather than Trump) would win their state among those expressing confidence.

Panel A of Figure 2 plots the estimated state coefficients from this regression. The y-axis at the indicates coefficient size, while the x-axis denotes the two-party vote share for Biden. Higher estimates on the y-axis indicate that respondents in that state were more confident that Biden would win the state. These axes are aligned so that above 0.50 on the x-axis indicates Biden won the state and above 0.50 on the y-axis indicates that, on balance, respondents in this state expected Biden to win. Thus, the upper right panel represents states Biden won that respondents expected him to

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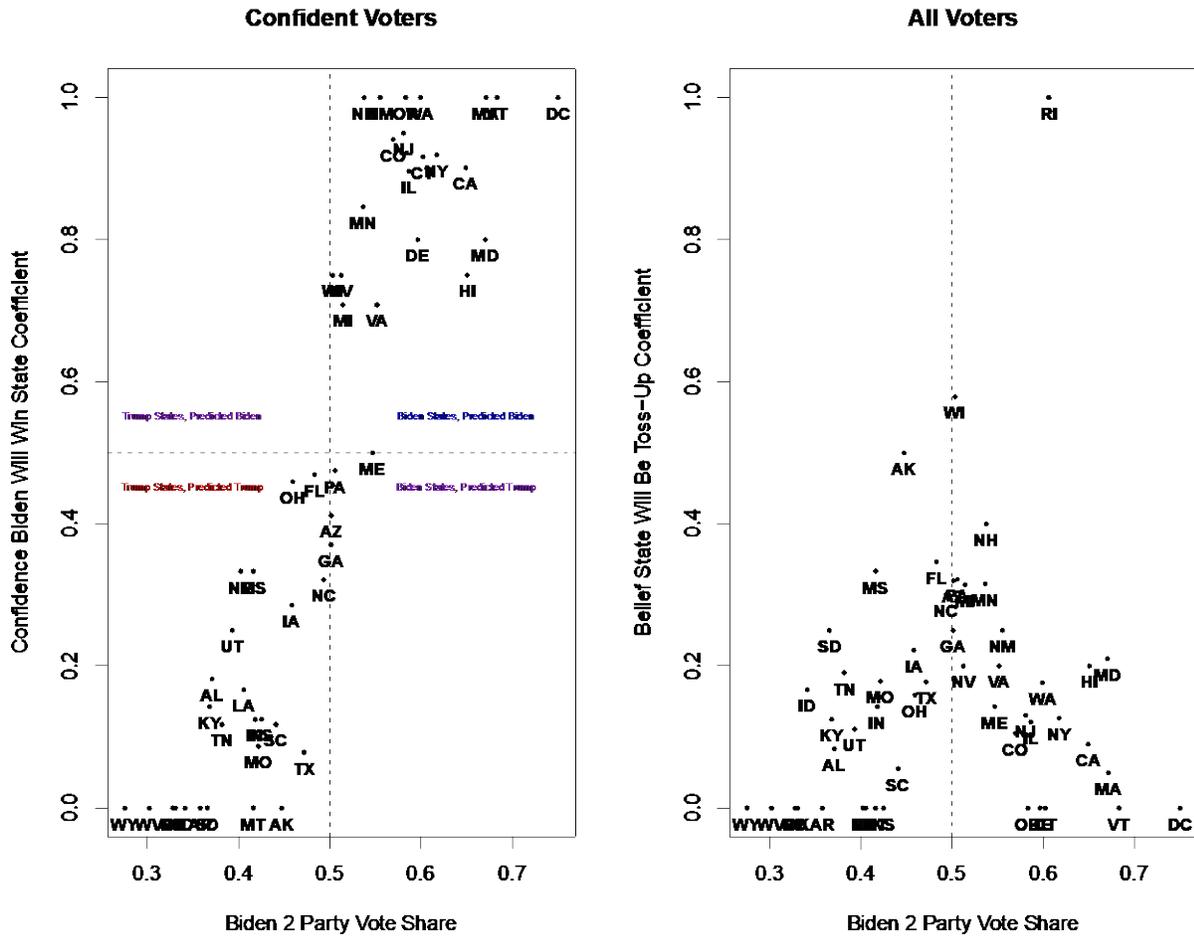
<sup>5</sup> This analysis involves using OLS to analyze a dichotomous variable, which makes interpretation easier and is generally robust (Angrist and Pischke 2008). Parallel analysis using logistic regression with a logit link function appears in the Appendix Tables A3 and A4 and yields similar results. Analysis clustered at the state-level produces smaller standard errors for the state estimates, but does not change the point estimates. We eschew either a multi-level model or pooling small states because there is substantial variation in the political leanings of small states and either approach would obscure those differences. Nonetheless, we acknowledge that there is a great deal of imprecision in the state-level estimates reflecting sampling variability. Random sampling variability would tend to obscure state-level differences correlated with actual election outcomes.

win, while the lower left panel represents states Trump won that respondents expected Trump to win.

Figure 2. Predicting State-Level Outcomes

Panel A. Likelihood of Biden Winning State

Panel B. Likelihood of State being a Toss-Up



Panel A plots Biden’s 2-party vote share (x-axis) against the coefficient of a model in which the prediction of Biden winning one’s home state was regressed on the respondent’s state (y-axis). The outcome variable is coded as 1 if the panelist thinks Biden will win the presidential election in their state and 0 if the panelist thinks Donald Trump will win the election in their state. We omit those who think the state will be a toss-up. We rescale the x-axis value of Washington DC from 0.94 to 0.75 for presentation purposes. Panel B plots Biden’s 2-party vote share (x-axis) with the coefficient of a model in which the prediction of the state being a toss-up is the outcome. The outcome variable is coded as 1 if the panelist thinks it is equally likely that Joe Biden or Donald Trump will win the election and 0 if they believe Donald Trump or Joe Biden is likely to win their state. This model includes all panelists. Wyoming serves as the intercept. Models were estimated using ordinary least squares regression. Regression tables are available in Table A1 and Table A2 in the Appendix.

The correlation between observed state outcomes and predicted state outcomes is strong. Respondents in states Trump won handily were the least confident that Biden would win their state, with the seven safest Trump states producing an estimated coefficient of zero. Similarly, those panelists in the safest Biden contests were confident Biden would win, with the three safest Biden races producing an estimated coefficient of 1. Those states that were closer produced estimated expectations close to 0.5, indicating that roughly equal numbers of panelists in each state thought Trump or Biden would win the state. Overall, in the aggregate, panelists seem to have a reasonable idea about who would win in their state.<sup>6</sup> (Maine and Ohio are notable outliers here, although Trump did win one Electoral vote in Maine.)

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<sup>6</sup> We also estimated this model including those who indicated the election was a toss-up with a 5-point outcome variable. See Figure A3 in the Appendix, which produces similar results. As a further robustness check, we estimated a model using party identification and other covariates, such as age, sex, income, urban residence, and education level as controls. This necessarily sets aside one important source of differences across states, which is differences in the composition of the electorate. Nonetheless, we find similar results (see Figure A4 in the Appendix). We estimated this model using poststratification weights (which are designed to approximate a nationally representative sample rather than state-level samples) and found similar results (see Figure A5 in the Appendix). In Figure A6 we compared estimates between those who could identify the partisan majority of their state houses and the US Congress with those who could not and found little difference. In Figure A7 we provide the estimates by partisanship of the panelists and find that in states that are not close, partisans do not appear to be overly optimistic.

Did respondents in closer states recognize the outcome was more uncertain? In Panel B of Figure 2 we present the estimated coefficients for a similar regression in which the outcome variable is 1 if the respondent indicated that they thought their state was a toss-up and 0 if the panelist thought either Trump or Biden would win their state. Once again, we plot Biden's two-party vote share on the x-axis, but now the y-axis represents the coefficient estimate for respondents who thought their state would be a toss-up. Higher values represent greater uncertainty about the state-level outcome.

As the pattern indicates, states where Biden or Trump won by larger margins have smaller estimated coefficients. That is, respondents in these states had less doubt about their state outcome. Among more competitive states, the estimated coefficients increase to near 0.25. This result indicates that in more competitive states, respondents were more likely to express doubt about who would win their state. In battleground states (e.g. Michigan, Nevada, Pennsylvania, Wisconsin, Arizona, Georgia, North Carolina, and Florida), respondents were 29 percentage points more likely to express they didn't know who would win compared to all other states (33% vs. 14%). Once again, citizens appear to have been grounded in reality when predicting the closeness of their state's electoral outcome.<sup>7</sup> Of course, it is precisely in these electorally uncertain states where concerns about electoral legitimacy loomed largest, likely because *ex ante* individuals did not know how the election would turn even if the votes were counted fairly and so the *ex post*

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<sup>7</sup> In Figure A5 we control for party identification and find similar results, suggesting that partisans in swing states were also much more willing to indicate uncertainty. In Figure A6 we include poststratification weights and find similar results.

revelation of who was reported to have won would have been most suspect in the face of allegations of fraud.

Cumulatively, these data provide a surprising rejoinder to expectations that an intensively polarized and nationalized political environment would produce survey respondents unable to recognize, in the aggregate, the contours of their state political environments. Even in the presence of substantial partisan differences in stated beliefs about state-level elections outcomes, respondents on average forecast state election outcomes correctly and recognize which state outcomes are more uncertain.

*National Forecasts are Uncertain and Largely Unaffected by State Context*

If state residents on average understand their state's politics, how does this realized collective wisdom inform expectations about who will win the national popular vote or the Electoral College? On the one hand, people may extrapolate from their expectations for their state. On the other hand, given that discussion of the Electoral College is ubiquitous, individuals may be aware of the differences between the race in their state and overall. We now turn to those questions. Returning to Figure 1, Panel B provides graphical analysis for predictions about the Electoral College and Panel C displays predictions for the national popular vote that parallel our earlier analysis about state-level election outcomes. As shown in the top portions of the panels, on average, Democrats were much more likely than Republicans to expect Biden to win the Electoral College (a mean difference of 0.388) and the national popular vote (a difference of 0.439). As the middle portion of the panels shows, the effect of living in a Trump versus Biden state is more muted for these outcomes: those in Biden states were more likely to think Biden would win nationally, but for both outcomes the differences are much smaller than for the state-level outcome, roughly one-sixth the size of that difference (0.077 for the Electoral College and 0.068 for the popular vote). Finally, the

bottom portion of panels B and C shows that the effect of state of residence is present for Republicans but largely absent among Democrats. More directly, regardless of where people live, on average Republicans (Democrats) are more likely to report they think Trump (Biden) will win both the Electoral College and popular vote. Interestingly, Republicans are more optimistic for the Electoral College, and Democrats for the popular vote, a pattern consistent with what happened in 2016 and evidence that neither party appears, on average, more biased in its forecasts.

In Appendix Figure 1 we replicate these estimates after limiting our sample to respondents in battleground states. We find similar partisan differences as in the overall sample, but which candidate won the state has little predictive power: the average scores in close states won by Biden and close states won by Trump are both near 0.50 (difference = 0.035, 95% CI = (-0.104, 0.034),  $p=0.32$ ). (These small differences persist when simultaneously accounting for both state winner and panelist partisanship.) If residents in pivotal toss-up states have great uncertainty in identifying who will win their state, it should not surprise us that the mass public should have difficulty in accurately predicting the winner of the Electoral College, which also turns on the outcomes of those closely contested states, and also that the state-level outcome in one's home state will be of little use in forecasting the national outcome in a close election.

In contrast to the large effect of state context on expected state-level outcomes, the analysis in Appendix Figures A1 and A2, which repeats the Figure 2 analysis for forecasts of the Electoral College and the national popular vote, respectively, shows state context had small effects on respondents' expectations or uncertainty about those outcomes. Given the small effect of state of residence on these outcomes in the aggregate analysis shown in Figure 1, these results are not surprising. That is, even in states where people are more confident in their state-level forecast, they remain about equally uncertain in forecasting the national election outcome.

## Implications and Conclusion

Researchers have noted the rapidly increasing levels of nationalization of American elections (e.g. Hopkins 2018) and the heightened levels of polarization in nearly all aspects of political life (e.g. Iyengar et al. 2019). This has led to widespread concern that Americans are disconnected both from facts generically and their state-level political environment. We show that despite these factors, and while Americans may engage in expressive partisanship when predicting elections (or have true partisan differences in beliefs), particularly at the national level, survey respondents are reasonably knowledgeable about their state political environments. That is, they do not rely solely on partisanship or national factors to make inferences about their political surroundings. While some recent studies have suggested voters make poor forecasts in relatively uncompetitive states (e.g. Murr and Lewis-Beck 2020), our results are consistent with those studies that show voters are relatively accurate when forecasting the winner at the state-level when the state outcome is not expected to be too close, and in recognizing which states are likely to be close.

On the one hand, these results suggest reason for optimism. We find that partisanship's influence on political perceptions is limited, and so despite partisan pressures, average citizens understand and report differences across state political environments. Indeed, for most Americans, the outcome of the 2020 election was met with acceptance<sup>8</sup>, perhaps because for most people the outcome matched their expectations for their state or resolved underlying uncertainty. Furthermore, robust electoral competition can be associated with greater perceptions of fairness (Wolak 2014). However, the facts that even people in uncompetitive states understood the Electoral College would be close and that partisanship is correlated with forecasts for the national outcome mean many people may across the country have been surprised by the outcome. That is,

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<sup>8</sup> [https://www.monmouth.edu/polling-institute/reports/MonmouthPoll\\_US\\_031721/](https://www.monmouth.edu/polling-institute/reports/MonmouthPoll_US_031721/)

Republicans and Democrats still report expected national outcomes that correlate with partisanship. This pattern may reflect true partisan differences in beliefs or hopeful expressive responding in light of uncertainty about the actual election. Although these two qualities are not worrisome per se, in an era when faith in democratic institutions appears weak, true and unexpected disappointment in electoral outcomes could erode the weak basis of support, and among the small subset of Americans who engaged in post-election violence, these concerns appear real.

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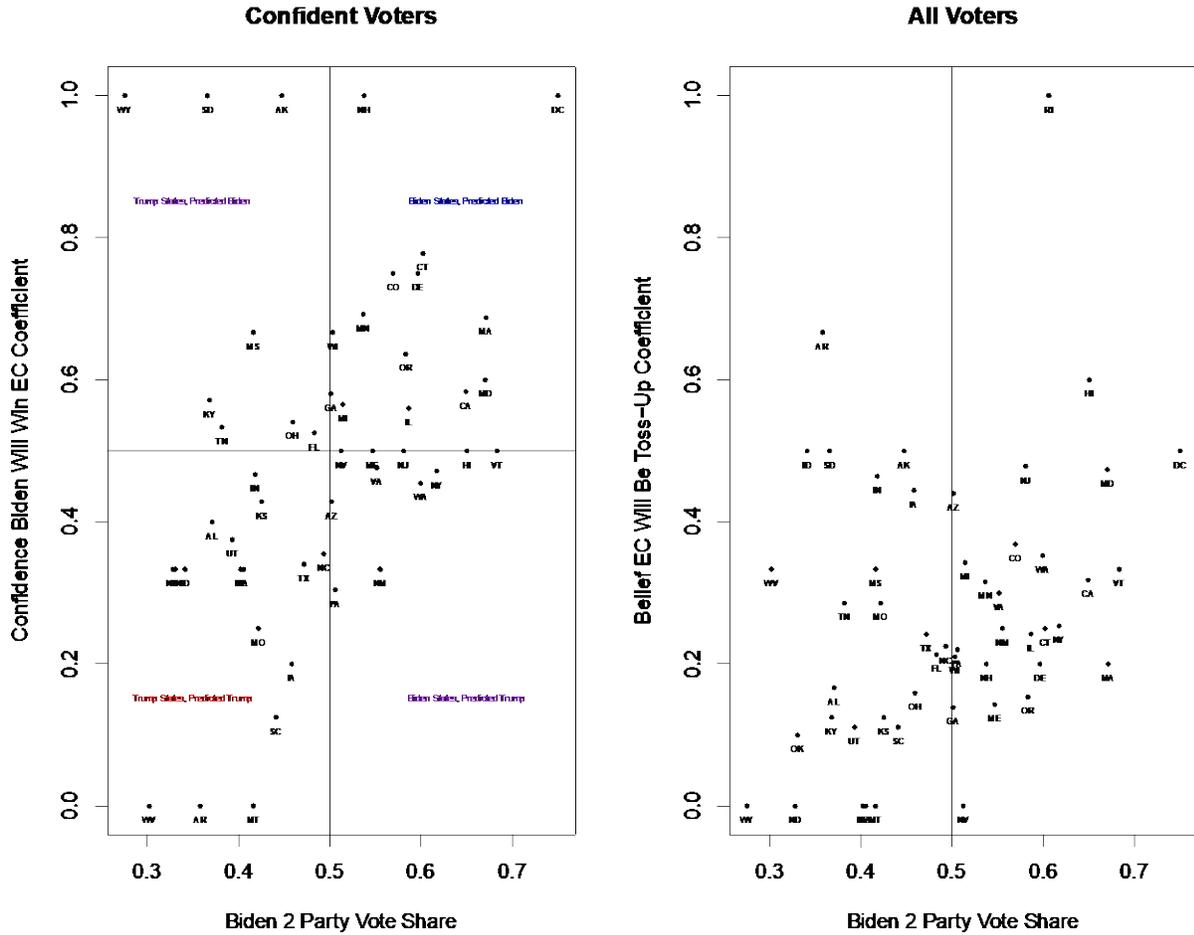
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Figure A1. Predicting Electoral College Outcomes

Panel A. Likelihood of Biden Winning Electoral College

Panel B. Likelihood of Electoral College being a Toss-Up

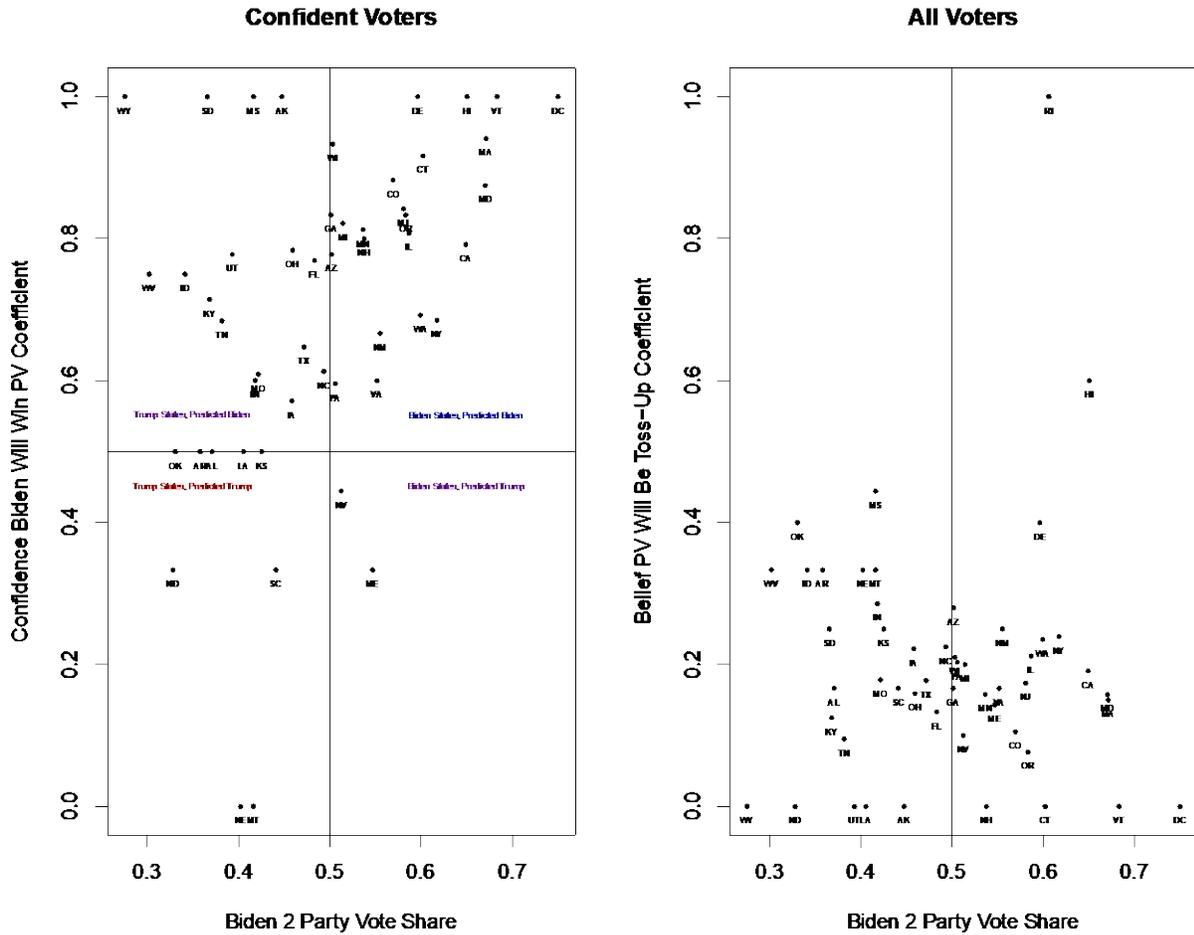


The x-axis in Panel A displays Biden’s 2-party vote share. The y-axis displays the state coefficients from a regression that predicts respondents’ beliefs about who will win the electoral college. The dots represent the coefficient estimates. The x-axis in Panel B displays Biden’s 2-party vote share. The y-axis displays the state coefficients from a regression that predicts respondents’ beliefs if it is equally likely that Joe Biden or Donald Trump will win the electoral college (coded as 1) or if they believe Donald Trump or Joe Biden is likely to win the electoral college (coded as 0). Washington DC’s x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Models were estimated using ordinary least squares regression.

Figure A2. Predicting National Popular Vote Outcomes

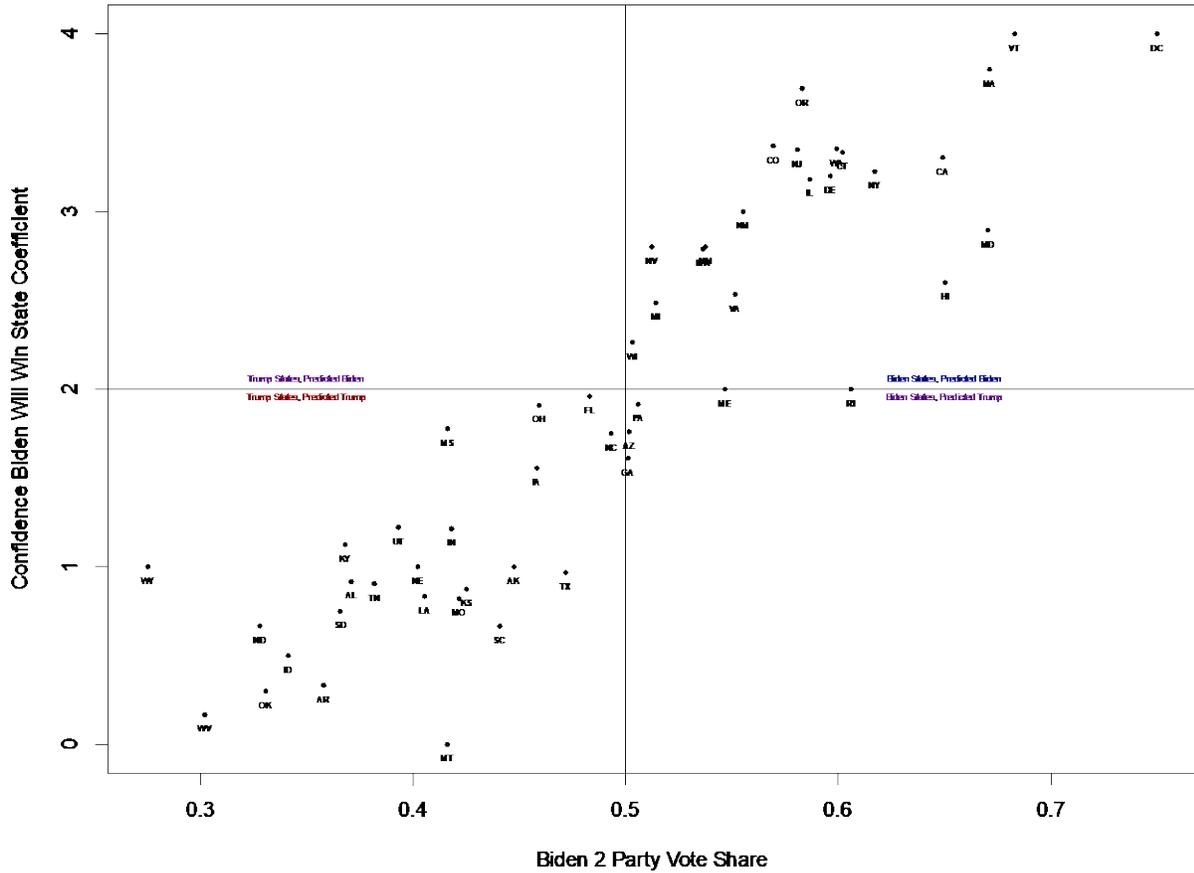
Panel A. Likelihood of Biden Winning Popular Vote

Panel B. Likelihood of Popular Vote being a Toss-Up



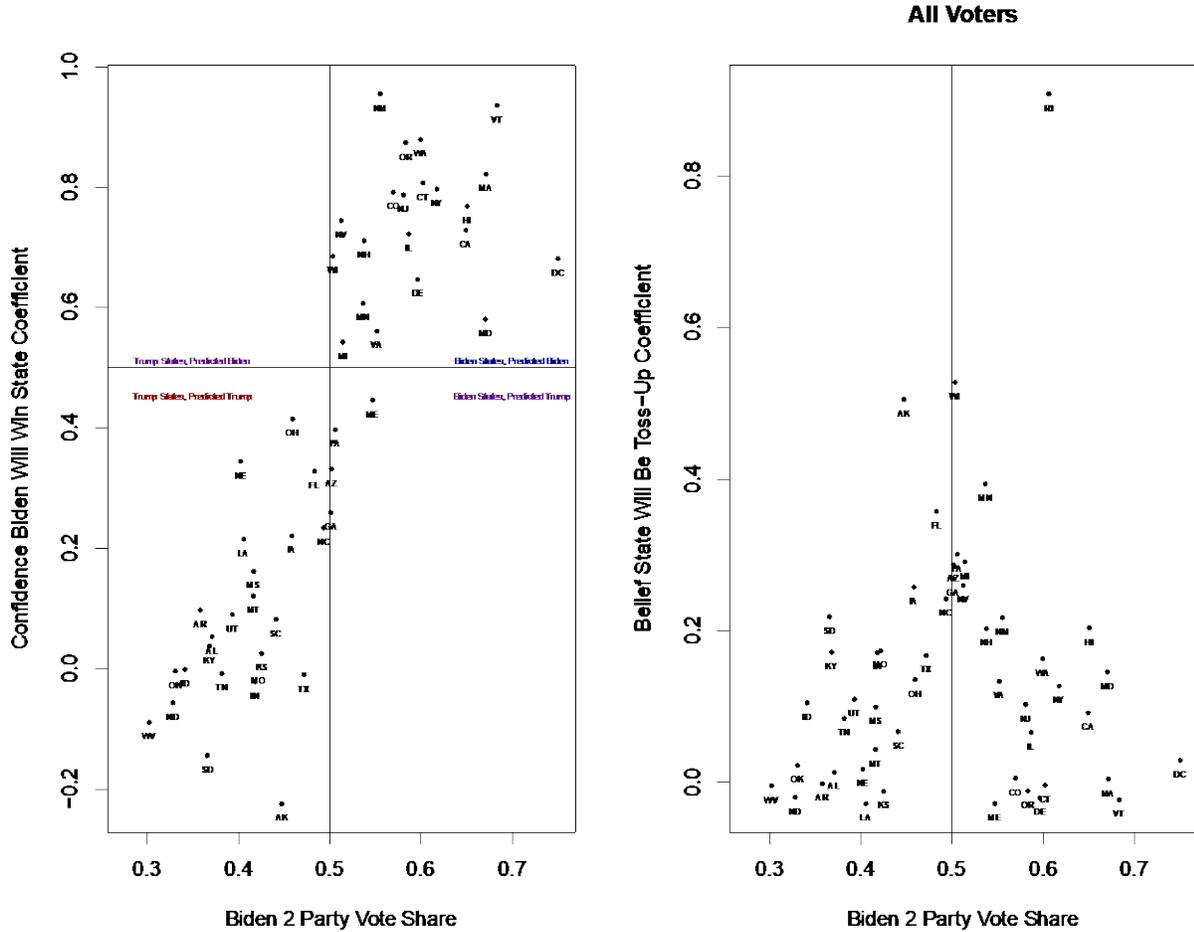
The x-axis in Panel A displays Biden's 2-party vote share. The y-axis displays the state coefficients from a regression that predicts respondents' beliefs about who will win the national popular vote. The dots represent the coefficient estimates. The x-axis in Panel B displays Biden's 2-party vote share. The y-axis displays the state coefficients from a regression that predicts respondents' beliefs if it is equally likely that Joe Biden or Donald Trump will win the national popular vote (coded as 1) or if they believe Donald Trump or Joe Biden is likely to win the national popular vote (coded as 0). Washington DC's x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Washington DC's x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Wyoming serves as the intercept. Models were estimated using ordinary least squares regression.

**Figure A3. Predicting State Outcomes, Five-Point Outcome Variable, Including All Panelists**



The x-axis displays Biden's 2-party vote share. The y-axis displays the state coefficients from a regression that predicts respondents' beliefs about who will win their home state. The outcome variable is scaled from 1 to 5. Wyoming serves as the intercept. The dots represent the coefficient estimates. Washington DC's x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Model was estimated using ordinary least squares regression.

**Figure A4. Predicting State Outcomes with Controls for Party, Income, Education, Age, Gender, Race, and Urban Residence**

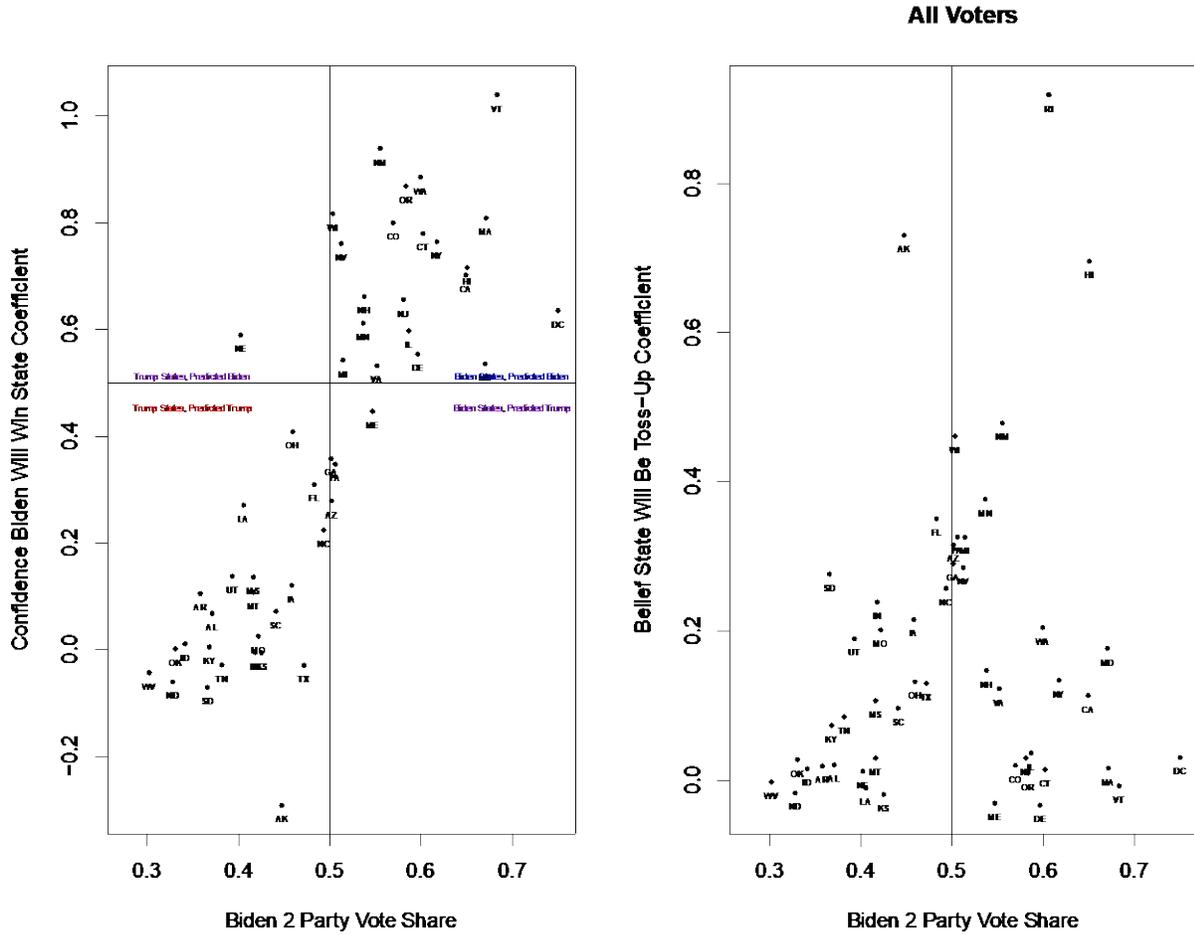


Panel A plots Biden’s 2-party vote share (x-axis) with the coefficient of a model in which the prediction of Biden winning one’s home state was regressed on the respondent’s state (y-axis). The outcome variable is coded as 1 if the panelist thinks Biden will win the presidential election in their state and 0 if the panelist thinks Donald Trump will win the election in their state. We omit those who think the state will be a toss-up. We rescale the x-axis value of Washington DC from 0.94 to 0.75 for presentation purposes. Panel B plots Biden’s 2-party vote share (x-axis) with the coefficient of a model in which the prediction of the state being a toss-up is the outcome. The outcome variable is coded as 1 if the panelist thinks it is equally likely that Joe Biden or Donald Trump will win the election and 0 if they believe Donald Trump or Joe Biden is likely to win their state. This model includes all panelists. Washington DC’s x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Wyoming serves as the intercept. In these models we include panelist level controls for party identification (treated categorically on a 7-point scale), income, education, age, gender, race, and urban residence. Models were estimated using ordinary least squares regression.

Figure A5. Predicting State-Level Outcomes with Weights

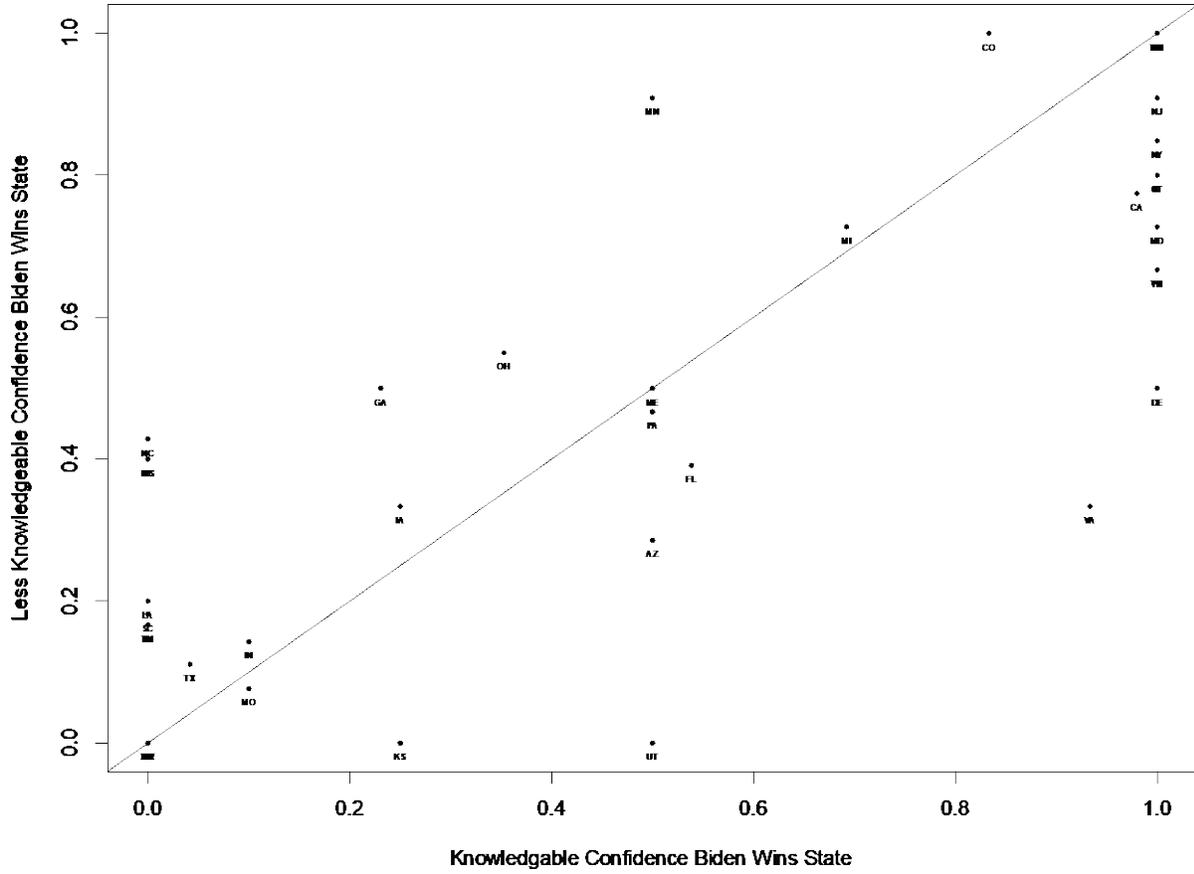
Panel A. Likelihood of Biden Winning State

Panel B. Likelihood of State being a Toss-Up



Panel A plots Biden’s 2-party vote share (x-axis) with the coefficient of a model in which the prediction of Biden winning one’s home state was regressed on the respondent’s state (y-axis). The outcome variable is coded as 1 if the panelist thinks Biden will win the presidential election in their state and 0 if the panelist thinks Donald Trump will win the election in their state. We omit those who think the state will be a toss-up. We rescale the x-axis value of Washington DC from 0.94 to 0.75 for presentation purposes. Panel B plots Biden’s 2-party vote share (x-axis) with the coefficient of a model in which the prediction of the state being a toss-up is the outcome. The outcome variable is coded as 1 if the panelist thinks it is equally likely that Joe Biden or Donald Trump will win the election and 0 if they believe Donald Trump or Joe Biden is likely to win their state. This model includes all panelists. Washington DC’s x-axis axis value has been rescaled to 0.75 for the sake of data presentation. Wyoming serves as the intercept. These estimates include poststratification weights for our module provided by YouGov. Models were estimated using ordinary least squares regression.

**Figure A6. Comparing Effects of Politically Knowledgeable and Those Less So**

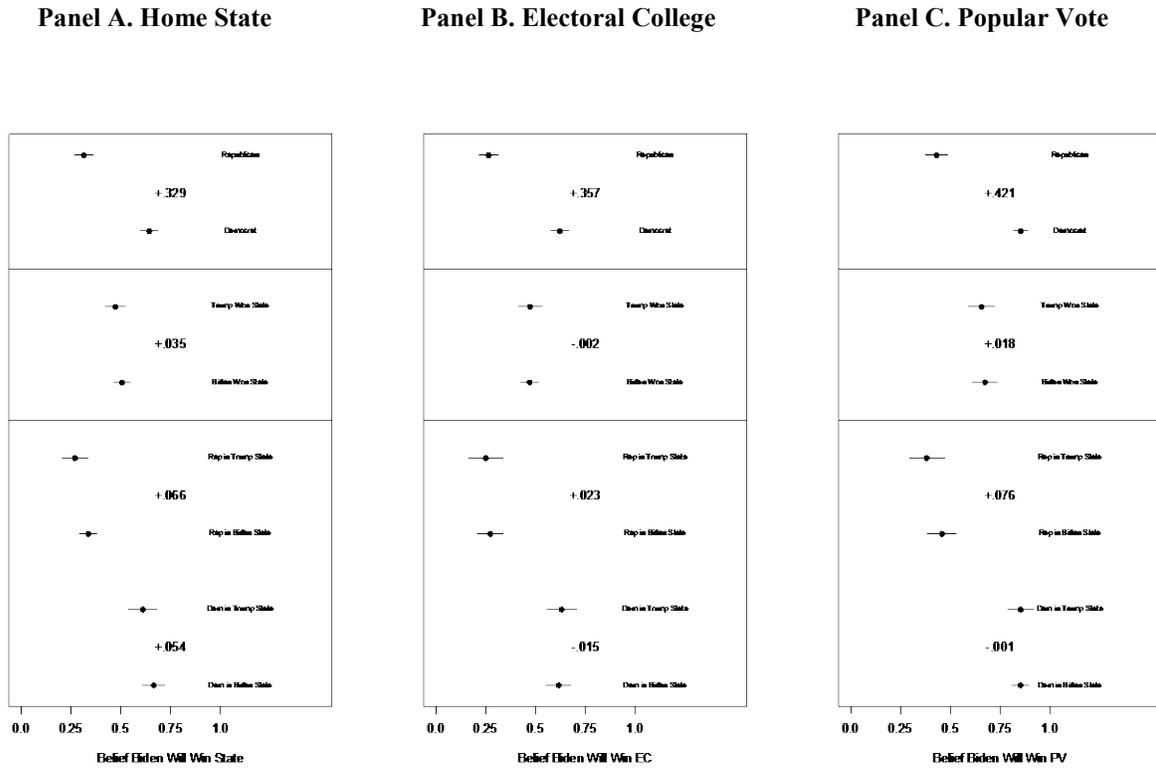


The x-axis displays the coefficient size of a regression in which prediction that Biden would win one's home state was regressed on home state residence among those panelists who could correctly identify which party controlled their home state's legislative houses and the US House and Senate. The y-axis displays the coefficient size of the same regression among those panelists who misidentified at least one of the four possible legislative houses. The dots represent the coefficient estimates. Models were estimated using ordinary least squares regression. The solid line represents  $y=x$ , meaning that those points below the line are those in which knowledgeable respondents estimated a higher likelihood Biden would win the state and those points above the line represent those states less knowledgeable respondents thought Biden was more likely to win.





Figure A8. Aggregate Predictions for the 2020 Election by Party and State Outcome, Battleground States



In panel A, we present the mean value for the question “Who do you think will win your state’s popular vote in the upcoming election?” Responses were provided on a five-point scale. We have rescaled the values so that 0=Certainly Donald Trump, and 1=Certainly Joe Biden.” Values closer to zero indicate the group was more likely to say Donald Trump would win. Values closer to zero indicate the group was more likely to say Joe Biden would win. In panel B, we present the mean value for the question, “Who do you think will win the Electoral College?” In panel C, we present the mean value for the question, who do you think will win the national popular vote?”

The first subset of each panel displays the difference between Republicans’ and Democrats’ responses to each question. The second subset of each panel displays the difference between those panelists living in states Trump won and those panelists living in states Biden won. The final panel displays the differences between Republicans living in Trump states and Republicans living in Biden states and the differences between Democrats living in Trump states and Democrats living in Biden states.

Figures include from Michigan, Nevada, Pennsylvania, Wisconsin, Arizona, Georgia, North Carolina, and Florida.

Figure A9. Figure 2, Panel A with Confidence Intervals

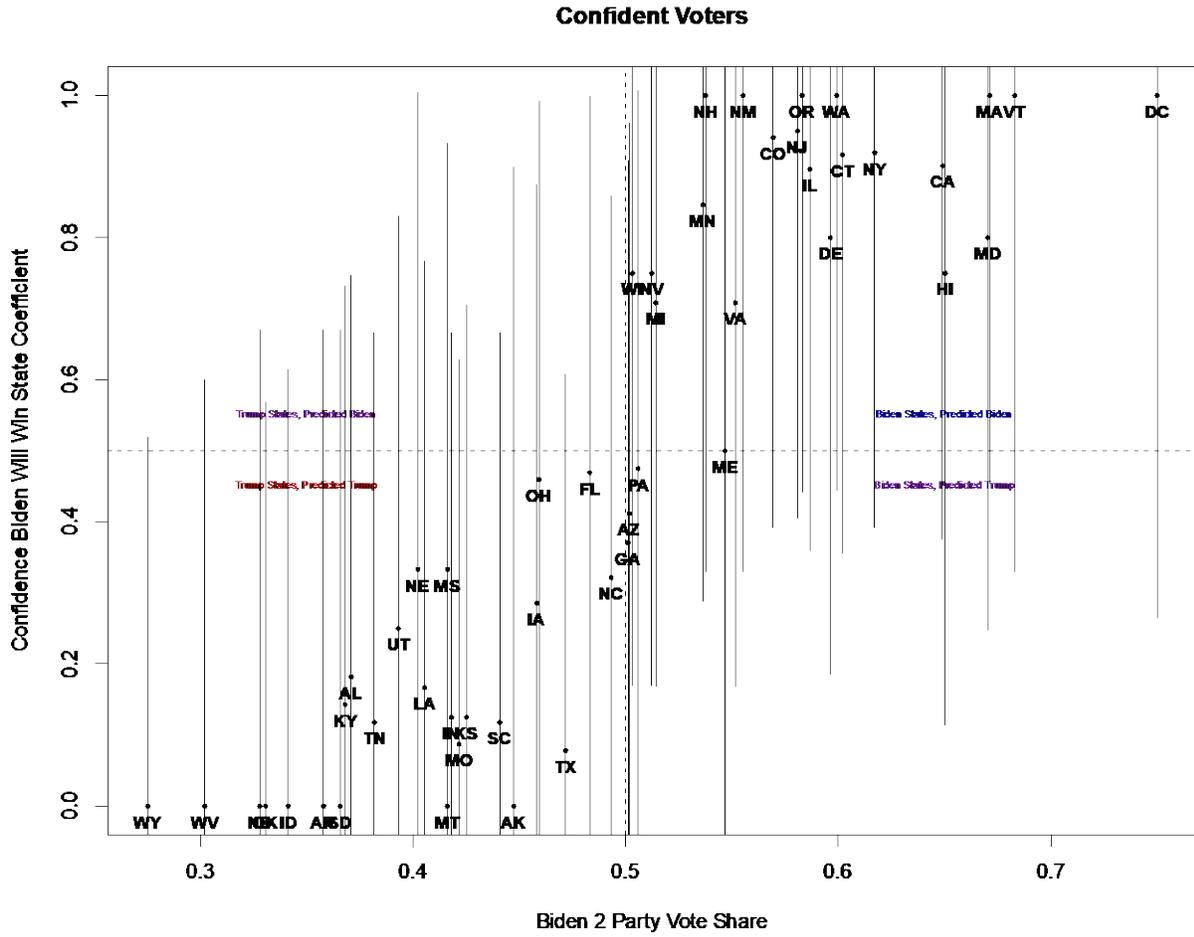


Figure A9 plots Biden’s 2-party vote share (x-axis) against the coefficient of a model in which the prediction of Biden winning one’s home state was regressed on the respondent’s state (y-axis). The outcome variable is coded as 1 if the panelist thinks Biden will win the presidential election in their state and 0 if the panelist thinks Donald Trump will win the election in their state. We omit those who think the state will be a toss-up. We rescale the x-axis value of Washington DC from 0.94 to 0.75 for presentation purposes. The error bars represent the 95% confidence intervals for the estimated coefficients.

**Table A1. Regression Output for Figure 2 Panel A**

Variable	Coefficient	SE
WV	2.20E-13	0.3056054
ND	2.19E-13	0.3416773
OK	2.15E-13	0.2899228
ID	2.15E-13	0.3131524
AR	2.18E-13	0.3416773
SD	2.20E-13	0.3416773
KY	0.1428571	0.3000986
AL	0.1818182	0.287718
TN	0.1176471	0.2797976
UT	0.25	0.2959012
NE	0.3333333	0.3416773
LA	0.1666667	0.3056054
MT	2.20E-13	0.3416773
MS	0.3333333	0.3056054
IN	0.125	0.275469
MO	0.0869565	0.2759293
KS	0.125	0.2959012
SC	0.1176471	0.2797976
AK	2.12E-13	0.4584082
IA	0.2857143	0.3000986
OH	0.4594595	0.271721
TX	0.0784314	0.2698016
FL	0.4693878	0.2700093
NC	0.3214286	0.2739513
GA	0.3703704	0.2742893
AZ	0.4117647	0.2797976
WI	0.75	0.2959012
PA	0.475	0.2711979
NV	0.75	0.2959012
MI	0.7083333	0.275469
MN	0.8461538	0.2842927
NH	1	0.3416773
ME	0.5	0.3056054
VA	0.7083333	0.275469
NM	1	0.3416773
CO	0.9411765	0.2797976
NJ	0.95	0.2775799
OR	1	0.2842927
IL	0.8965517	0.2736362
DE	0.8	0.3131524
WA	1	0.2829357
CT	0.9166667	0.2858677
NY	0.9193548	0.2688969
CA	0.9012346	0.2679096
HI	0.75	0.3241435
MD	0.8	0.2817543
MA	1	0.2782432
VT	1	0.3416773
DC	1	0.3742887
<b>Intercept</b>	-2.13E-13	0.2646621
<b>R<sup>2</sup></b>	<b>0.468</b>	
<b>N</b>	<b>807</b>	

We regress belief that Biden will win one's home state (coded as 1) on one's home state using ordinary least squares. Outcome is coded as 0 if panelist believes Trump will win state. We omit those panelists who believe that the state will be a toss-up. Rhode Island is omitted since its respondents all indicated that it would be a toss-up. Wyoming serves as the baseline category.

**Table A2. Regression Output for Figure 2 Panel B**

Variable	Coefficient	SE
WV	-6.72E-13	0.3151141
ND	-6.73E-13	0.3523083
OK	-6.72E-13	0.2989435
ID	0.1666667	0.3151141
AR	-6.71E-13	0.3523083
SD	0.25	0.334229
KY	0.125	0.305108
AL	0.0833333	0.2947623
TN	0.1904762	0.2855964
UT	0.1111111	0.3016988
NE	-6.73E-13	0.3523083
LA	-6.72E-13	0.3151141
MT	-6.73E-13	0.3523083
MS	0.3333333	0.3016988
IN	0.1428571	0.2824751
MO	0.1785714	0.2824751
KS	-6.72E-13	0.305108
SC	0.0555556	0.2876585
AK	0.5	0.3859344
IA	0.2222222	0.3016988
OH	0.1590909	0.2790301
TX	0.1774194	0.2772635
FL	0.3466667	0.2765115
NC	0.3	0.2796361
GA	0.25	0.2803749
AZ	0.32	0.2836027
WI	0.5789474	0.2869005
PA	0.3220339	0.2774837
NV	0.2	0.2989435
MI	0.3142857	0.2805856
MN	0.3157895	0.2869005
NH	0.4	0.3228959
ME	0.1428571	0.3094359
VA	0.2	0.2818467
NM	0.25	0.334229
CO	0.1052632	0.2869005
NJ	0.1304348	0.2845146
OR	-6.72E-13	0.2931382
IL	0.1212121	0.2810448
DE	-6.72E-13	0.3228959
WA	0.1764706	0.2885034
CT	-6.72E-13	0.2947623
RI	1	0.4726712
NY	0.1267606	0.2767138
CA	0.0898876	0.2759461
HI	0.2	0.3228959
MD	0.2105263	0.2869005
MA	0.05	0.2862166
VT	-6.72E-13	0.3523083
DC	-6.74E-13	0.3859344
Intercept	6.71e-13	.2728969
R <sup>2</sup>	0.093	
N	1,000	

We regress belief that one's home state will be a toss-up. (coded as 1) on one's home state using ordinary least squares. Outcome is coded as 0 if panelist believes Trump or Biden will win state. Wyoming serves as the baseline category.



**Table A3. Logistic Regression Output**

Variable	Coefficient	SE
KY	-3.178054	1.258306
AL	-2.890372	1.013794
TN	-3.401197	0.9916317
UT	-2.484907	1.040833
NE	-2.079442	1.384437
LA	-2.995732	1.271482
MS	-2.079442	1.080123
IN	-3.332205	0.8930952
MO	-3.73767	0.9819805
KS	-3.332205	1.248809
SC	-3.401197	0.9916317
IA	-2.302585	1.056724
OH	-1.548813	0.724907
TX	-3.850148	0.8294235
FL	-1.508897	0.7061207
NC	-2.133509	0.761846
GA	-1.916923	0.7586107
AZ	-1.742969	0.8121107
WI	-0.2876821	1.040833
PA	-1.486378	0.7189696
NV	-0.2876821	1.040833
MI	-0.4989912	0.7863506
MN	0.3184537	1.003781
ME	-1.386294	1.040833
VA	-0.4989912	0.7863506
CO	1.386293	1.21621
NJ	1.558136	1.212143
IL	0.7731899	0.8879536
DE	-1.65E-15	1.290994
CT	1.011601	1.227834
NY	1.047319	0.7963734
CA	0.8247235	0.7452284
HI	-0.2876821	1.322876
<b>Intercept</b>	1.386294	0.6454972
<b>Pseudo R<sup>2</sup></b>	<b>0.332</b>	
<b>N</b>	<b>714</b>	

We regress belief that Biden will win one's home state (coded as 1) on one's home state using a logit link function. Outcome is coded as 0 if panelist believes Trump will win state. We omit those panelists who believe that the state will be a toss-up. Several states are omitted due to the lack of variation in the outcome variable. Maryland serves as the baseline category.

**Table A4. Regression Output for Figure 2 Panel B**

Variable	Coefficient	SE
ID	1.335001	1.500877
SD	1.845827	1.544657
KY	0.9985288	1.481718
AL	0.5465437	1.464084
TN	1.49752	1.166814
UT	0.8649974	1.47568
MS	2.251292	1.246046
IN	1.15268	1.159439
MO	1.418383	1.138468
SC	0.1112256	1.453085
AK	2.944439	1.747178
IA	1.691676	1.302109
OH	1.279431	1.105674
TX	1.410509	1.078494
FL	2.310715	1.054278
NC	2.097141	1.082441
GA	1.845827	1.095801
AZ	2.190667	1.11196
WI	3.262893	1.126295
PA	2.199999	1.063138
NV	1.558145	1.295234
MI	2.16428	1.088672
MN	2.171249	1.138517
NH	2.538974	1.373304
ME	1.15268	1.489731
VA	1.558145	1.122927
NM	1.845827	1.544657
CO	0.8043728	1.269431
NJ	1.047319	1.198318
IL	0.9634375	1.156337
WA	1.403994	1.207226
NY	1.014529	1.086219
CA	0.6294314	1.090861
HI	1.558145	1.517442
MD	1.622683	1.17017
Intercept	-2.944439	1.025978
R <sup>2</sup>	0.067	
N	920	

We regress belief that one's home state will be a toss-up. (coded as 1) on one's home state using a logit link function. Outcome is coded as 0 if panelist believes Trump or Biden will win state. Massachusetts serves as the baseline category.

### Question Wordings

**President Donald Trump is facing former Vice President Joe Biden in the 2020 presidential election. Please indicate who you think will win the electoral college, the national popular vote, and the popular vote in [R'S STATE]?**

The Electoral College

The national popular vote

The popular vote in [R'S STATE]

1. It is extremely likely that Donald Trump will win
2. It is likely that Donald Trump will win
3. It is equally likely that Donald Trump or Joe Biden
4. It is likely that Joe Biden will win
5. It is extremely likely that Joe Biden will win

**Ethical Declaration**

All data gathering in this study was classified as exempt by [Redacted] Human Subjects under an Umbrella Protocol titled “Studies of attitudes and public opinion.” Researchers do not have any potential or perceived conflicts of interest arising from their research.

Subjects were recruited through the online survey firm YouGov. While YouGov does not reveal specifics on how much they pay their participants, all subjects were compensated with YouGov points which are redeemable for monetary rewards for their participation.

This project did not engage in deception. It did not intervene in a political process. All subjects were informed that they were part of a university research study and they were made aware of any potential risks. The consent form they agreed to read: