### **Bias in Perceptions of Public Opinion among Political Elites**

DAVID E. BROOCKMAN Stanford Graduate School of Business CHRISTOPHER SKOVRON Northwestern University

The conservative asymmetry of elite polarization represents a significant puzzle. We argue that politicians can maintain systematic misperceptions of constituency opinion that may contribute to breakdowns in dyadic representation. We demonstrate this argument with original surveys of 3,765 politicians' perceptions of constituency opinion on nine issues. In 2012 and 2014, state legislative politicians from both parties dramatically overestimated their constituents' support for conservative policies on these issues, a pattern consistent across methods, districts, and states. Republicans drive much of this overestimation. Exploiting responses from politicians in the same district, we confirm these partisan differences within individual districts. Further evidence suggests that this overestimation may arise due to biases in who contacts politicians, as in recent years Republican citizens have been especially likely to contact legislators, especially fellow Republicans. Our findings suggest that a novel force can operate in elections and in legislatures: Politicians can systematically misperceive what their constituents want.

he sharp increase in elite polarization has been called "the central puzzle of modern American politics" (Poole 2004). Increasingly, scholars hold that polarization is asymmetric, with "the movement of the Republican Party to the right account[ing] for most" of polarization (McCarty 2015).<sup>2</sup> For example, Ahler and Broockman (forthcoming) find that in the years 2008–2016, Democratic members of the US House voted with the majority of their constituents 69% of the time on roll calls about which the Cooperative Congressional Election Study (CCES), whereas Republican members did so only 52% of the time, barely more often than would be expected by chance. Similarly, Hall (2015, Table A.4) finds that Republican candidates often take positions more extreme than would be electorally optimal, while Democrats do so far less often. Scholars have worked to understand how politicians' congruence with public opinion can

David E. Broockman is an Assistant Professor, Stanford Graduate School of Business, 655 Knight Way Stanford, CA 94305-7298 (dbroockman@stanford.edu), https://people.stanford.edu/dbroock/.

Christopher Skovron is a Postdoctoral Scholar, Institute for Policy Research and Institute on Complex Systems, Northwestern University, 2040 Sheridan Road, Evanston, IL 60208 (cskovron@northwestern.edu), http://sites.northwestern.edu/cskovron/.

The authors' names appear in alphabetical order. We thank seminar participants at Michigan, Northwestern, Stanford, and the American Political Science Association's Annual Meeting as well as Jon Bendor, Jamie Druckman, Don Green, Vince Hutchings, Geoff Kabaservice, Skip Lupia, Neil Malhotra, Fabian Neuner, Ken Shotts, Stuart Soroka, Laura Stoker, Nick Valentino, and Rob Van Houweling for helpful feedback. Remaining errors are our own. Skovron acknowledges the National Science Foundation Graduate Research Fellowship Program for support. The CCES data used in this article were supported by the National Science Foundation, Awards #1430505 and #1225750. Replication materials are available at the American Political Science Review Dataverse: https://doi.org/10.7910/DVN/DQZXQB.

Received: March 14, 2017; revised: August 14, 2017; accepted: January 29, 2018. First published online: March 22, 2018.

break down from many perspectives (Achen and Bartels 2016; Bawn et al. 2012; Gilens 2012), but existing theories still struggle to explain such one-sided biases.

In this article, we argue that politicians can misperceive constituency opinion dramatically and systematically enough to contribute to significant, one-sided biases in representation such as asymmetric polarization. Existing evidence establishes that politicians want to be congruent with constituency opinion, as they change their behavior when they learn more about it (Bergan 2009; Butler and Nickerson 2011). This evidence is consistent with canonical theories that politicians seek to represent the median voter (e.g., Downs 1957) and empirical findings demonstrating politicians' strong responsiveness to public opinion (e.g., Erikson, MacKuen, and Stimson 2002; Erikson 2013). However, classic theories of representation argue that politicians' information environments can leave them imperfectly informed about the median voter's preferences: "the constituency that a representative reacts to is the constituency that he or she sees" (Fenno 1977, 883), but "The Representative knows his constituents mostly from dealing with people who do write letters [and] who will attend meetings" (Miller and Stokes 1963, see also Butler and Dynes 2016; Miler 2010). Extending these theories, we argue that biases in politicians' information environments common across politicians can lead politicians as a whole to systematically misperceive constituency opinion and, in turn, to contribute to systemic breakdowns in dyadic representation like asymmetric polarization.

We demonstrate our argument in the context of the contemporary United States, where conditions for bias in politicians' perceptions of constituency opinion appear ripe. Over the past few decades, and especially since the mid-2000s, actors on the political right built the capacity to "rapidly mobilize large numbers" of conservative citizens to participate in the public spheres representatives monitor (Blee and Creasap 2010) by organizing intense conservative issue publics, coordinating with talk radio programs, and more (Goss 2008; Fang 2013). During the Obama presidency, these forces and "thermostatic" (Wlezien 1995) reactions pushed right-wing activism to new heights (Skocpol



<sup>&</sup>lt;sup>1</sup> Quoted in Fiorina and Levendusky (2006).

<sup>&</sup>lt;sup>2</sup> See also, among others, Grossmann and Hopkins (2015, 2016); Hacker and Pierson (2005, 2015); Mann and Ornstein (2013); McCarty, Poole, and Rosenthal (2006); Theriault (2013). This view is by no means universal but is currently accepted as conventional wisdom among many scholars. See Online Appendix B for review.

and Williamson 2011; Skocpol and Hertel-Fernandez 2016). For example, while voter turnout for conservatives and liberals differs only slightly,<sup>3</sup> conservatives have recently been significantly more likely to participate in the public sphere in other ways, such as by contacting their legislators or attending town hall meetings. These differences are not small: For example, in the 2008 Cooperative Congressional Election Study, Republican citizens were 39% more likely than Democrats to indicate they had contacted their US House member's office to express their opinion, differences that persisted in 2012 but were not evident in previous decades (see Table A1). The explicit goal of much of conservatives' participation in the public sphere is to shape how politicians perceive the public's demands (e.g., MacGuffie 2009).

In contexts like these, can politicians indeed systematically misperceive constituency opinion on salient issues? To shed light on this question, we gathered one of the most extensive documentations of elite perceptions of constituency opinion ever compiled. This original survey evidence spans two years and 3,765 surveys of American politicians, across which we collected 11,803 elite perceptions of constituency opinion in total. Our main evidence comes from a survey we conducted in 2014 of 1,858 state legislative politicians. We chose to study state legislative politicians because of evidence that the same dynamics of asymmetric polarization persist at the state level and by the variation in contexts available in the states. Further, motivated by evidence that polarization is partly a function of newly elected candidates taking more extreme positions than their predecessors (Theriault 2006), we surveyed both incumbents and candidates. We measured these officeholders' and candidates' perceptions of public opinion in their districts across seven issues in total. We then compared these politicians' perceptions of opinion in their constituencies to estimates of actual opinion there, which we computed using Cooperative Congressional Election Study data, to examine whether their politicians' perceptions were significantly or systematically distorted. We also present data from a study we conducted in 2012.

Our evidence reveals that, on average, American politicians from both parties in 2012 and 2014 believed that support for conservative positions on these issues in their constituencies was much higher than it actually was. These misperceptions are large, pervasive, and robust: Politicians' right-skewed misperceptions exceed 20 percentage points on issues such as gun control—where these misperceptions are the largest and persist in states at every level of legislative professionalism, among both candidates and sitting officeholders, among politicians in very competitive districts, and when we compare politicians' perceptions to voters' opinions only. That Democratic politicians also overestimate constituency conservatism suggests these misperceptions cannot be attributed to motivated reasoning or social desirability bias alone.

Why are US politicians' perceptions of constituency opinion systematically skewed to the right? We present additional evidence that suggests a potential mechanism consistent with politicians' information environments playing a role (Miller and Stokes 1963). Not only are Republican citizens more likely to voice their views to politicians in general, but we show that Republican citizens are especially likely to express their views to politicians who are fellow Republicans. This means that whereas Democratic politicians hear from Republican constituents somewhat disproportionately, Republican politicians appear to hear from Republican constituents very disproportionately. Consistent with this mechanism, we show that much (although not all) of the conservative misperceptions we found are driven by Republican politicians. Online Appendix H finds suggestive evidence that the strength of the partisan imbalance in contact from constituents also correlates with the extent to which politicians overestimate conservatism. We also find in Online Appendix I that in earlier eras when there was less asymmetry in partisan participation, politicians did not appear to exhibit the same asymmetric misperceptions. Although direct contact with legislators is just one of many asymmetries in citizens' public engagement that could skew politicians' perceptions of constituency opinion, these patterns suggest that direct contact and the other participatory behaviors it proxies for may play an important role.

Consistent with our theoretical argument, these biases in politicians' perceptions of constituency opinion are pervasive enough and considerable enough in magnitude to plausibly contribute to a phenomenon like asymmetric polarization. For example, we find that even in districts where majorities of constituents favor same-sex marriage, Republican politicians in these districts perceive their constituents as opposed to same-sex marriage by three to one on average. Such misperceptions may help explain the puzzle of why so many politicians remain opposed to same-sex marriage even when their constituents favor it (Krimmel, Lax, and Phillips 2016).

In concluding, we discuss several additional empirical predictions of our theory that are confirmed in other evidence. However, our argument readily allows that US politicians' misperceptions of constituency opinion could change in magnitude or even in direction—such as in response to protest in the wake of the Trump presidency—and that such changes would have important implications. We also discuss several broader implications of our argument and directions for future research. In terms of immediate implications for theories of democratic responsiveness, our findings present a mixed verdict. On the one hand, we find very strong responsiveness of politicians' perceptions of constituents' opinions to that opinion (Erikson, MacKuen, and Stimson 2002). The correlations between public opinion and politicians' perceptions of it we find are strong. However, this robust responsiveness belies often large gaps in congruence between opinion and perceptions (Achen 1978): Politicians' perceptions are offset by an "intercept shift" that leads them

<sup>&</sup>lt;sup>3</sup> Later in the article, we show that voters and nonvoters have nearly identical average opinions on the issues we study.

to often misperceive majority will.<sup>4</sup> This is consistent with a more nuanced understanding of the relationship between public opinion and public policy (Lax and Phillips 2012). Future research can and should further explore what gives rise to politicians' misperceptions of public opinion, what determines variation in them, and what consequences they have.

### THEORETICAL PERSPECTIVES

Politicians' positions and the policies they make are clearly responsive to public opinion (e.g., Erikson, MacKuen, and Stimson 2002; Erikson 2013; Tausanovitch and Warshaw 2014; Caughey and Warshaw forthcoming), but they are not perfectly congruent with it (e.g., Lax and Phillips 2012). For example, the United States has recently witnessed a sharp increase in asymmetric polarization, wherein Republican politicians take positions that are more extreme than their Democratic counterparts on many issues (see Online Appendix B for review). What contributes to major biases in democratic representation like this? Existing explanations for phenomena such as asymmetric polarization largely focus on reasons why politicians might have electoral incentives to diverge from the preferences of the median voter (McCarty, Poole, and Rosenthal 2006; Hacker and Pierson 2005). These explanations are compelling but may offer incomplete explanations in some cases. For example, evidence indicates that Republican politicians are even more polarized than would be electorally optimal (Hall 2015; Hall and Snyder 2015; Jacobson 2013).

Classic theories of representation suggest another hypothesis: that politicians may not accurately perceive what their constituents want. These theories argue that although politicians prefer to remain in step with prevailing constituency opinion, they have incomplete information about it and so must rely on imperfect cues (Arnold 1990; Fenno 1977; Kingdon 1967; Miller and Stokes 1963), which they cognitively process with classic behavioral biases (Butler and Dynes 2016; Miler 2010). Consistent with these theories, field experiments show that even a few dozen calls from constituents or one poll about constituency opinion can change how legislators vote (Bergan 2009; Bergan and Cole 2015; Butler and Nickerson 2011). Evidence from natural experiments, elite survey experiments, elite interviews, and descriptive data supports these same conclusions.<sup>5</sup>

In this article, we extend these theories to consider their potential consequences for aggregate representation. In particular, we argue that systematic biases in politicians' information environments common across politicians could generate significant widespread biases in their perceptions of their geographic constituencies.<sup>6</sup>

Influential arguments hold that even if politicians do misperceive constituency opinion, such errors will be generally random and cancel out among the collective (Weissberg 1978). However, we argue that the forces that bias politicians' perceptions of public opinion can be common across many politicians, leading politicians as a whole to hold systematic misperceptions of their constituents. For example, if certain kinds of individuals are more likely to express their views in the public spheres politicians monitor, then these individuals' viewpoints may loom disproportionately large in many politicians' minds as they think about what their geographic constituency wants. If the same kinds of individuals are more active, vocal, and intense across districts, then political elites may systematically misperceive public opinion in similar ways, leading to significant biases in aggregate representation like asymmetric polarization.

Over the past several decades, and from the mid-2000s in particular, the conditions for just this kind of systematic bias in politicians' perceptions have been ripe in American politics. During this time, conservative actors have focused on cultivating active issue publics on the right and building the infrastructure to mobilize them to participate in the public sphere (Blee and Creasap 2010). A number of scholars have noted that this organized base of conservative groups and voters have tailored their strategies to influence how politicians perceive their constituents' demands (Goss 2008; Hacker and Pierson 2005, 2015; Skocpol and Williamson 2011; Skocpol and Hertel-Fernandez 2016). For example, intending to create the impression that legislators' constituencies were strongly opposed to Barack Obama's legislative proposals in 2009, organizations affiliated with the Tea Party famously surrounded politicians with conservative constituents voicing strenuous opposition at town halls.8

The famous "Tea Party Town Hall Strategy" is just one manifestation of a broader strategy conservative groups and voters have pursued to convince politicians that their constituencies favor conservative policies. For example, journalistic accounts detail how conservative advocacy groups, talk radio hosts, and donors have developed networks and organizations that

<sup>&</sup>lt;sup>4</sup> Achen (1978) terms this concept "centrism."

<sup>&</sup>lt;sup>5</sup> See Berinsky and Lenz (2014); Druckman and Jacobs (2006); Enos and Hersh (2017); Henderson and Brooks (2016); Jacobs and Shapiro (1995). For example, Druckman and Jacobs (2006) and Jacobs and Shapiro (1995) find that politicians are highly attuned to public opinion data when they do have access to it, although are constrained in the amount of public opinion data to which they do have access.

<sup>&</sup>lt;sup>6</sup> Fenno (1977) defines the geographic constituency as those residing in politicians' legal district boundaries: "[the geographic constituency] includes the entire population within those boundaries" (884).

<sup>7</sup> For example when politicians think about what their constituents.

<sup>&</sup>lt;sup>7</sup> For example, when politicians think about what their constituents as a whole want, copartisans, primary voters, and the constituents and groups who are more active, vocal, and intense may be more likely to come to mind (Miler 2010), classic examples of the availability heuristic (Tversky and Kahneman 1973).

<sup>&</sup>lt;sup>8</sup> A strategy memo from one such group recounted that their "objective was to 'pack the hall'" at their member's town hall event and recommended that similar groups be sure their representatives "be made to feel that a majority ... opposes" Obama's agenda. Consistent with these efforts to shape politicians' perceptions of their constituency, this group also released a press release claiming that "there are tens of thousands" of other constituents "who agree with us" (MacGuffie 2009).

ensure conservative citizens regularly make politicians hear their voices at town halls, by phone, and otherwise (Fang 2013). Such activity has been in a renaissance on the political right, buoyed in part by a backlash to waves of left-leaning policymaking (such as during the Obama era) and conservative national donors' rising incomes (Blee and Creasap 2010). Meanwhile, its left-wing equivalents have atrophied, with unions in decline (Goss 2008; Hacker and Pierson 2005; Skocpol and Williamson 2011).

Theoretically, our argument predicts that these nationwide efforts to make politicians "feel the heat" from conservative constituents since the mid-2000s could have pushed politicians' collective perceptions of their geographic constituencies to the right and their positions to the right in turn. This would likely exacerbate asymmetric polarization by slowing Democrats' leftward moves and hastening Republicans' rightward trajectory.

With this said, it is by no means obvious that such activity would actually bias politicians' perceptions of public opinion pervasively and dramatically enough to contribute to these significant biases in representation. Politicians may well appreciate that the people who call their offices, attend town hall meetings, write letters to the editor, and so on, are unrepresentative.

Unfortunately, despite the central role of politicians' perceptions of public opinion in canonical and contemporary theories, few data on them exist today. Querying politicians' perceptions of opinion was an active area of empirical research in American politics in the 1960s and 1970s,<sup>9</sup> but these classic studies had very small sample sizes, and few recent studies have engaged these questions.<sup>10</sup> Much has changed since the 1960s and 1970s, however, including dramatic changes to how politicians communicate with and hear from their constituents.

In this article, motivated by the theoretical puzzle of why representation can sometimes break down, we present the results of an extensive data collection effort we undertook to shed new light on what contemporary American politicians believe about public opinion among their constituents. To do so, we leverage technological changes since studies like Miller and Stokes (1963) to examine how politicians perceive their constituents with greater precision and across more issues than was previously possible. We measure these perceptions in the context of state politics, where asymmetric polarization generally persists (Shor 2015) but where variation gives us leverage to test alternative explanations and secondary hypotheses.

### DATA: THE 2014 NATIONAL CANDIDATE STUDY

To measure state politicians' perceptions of public opinion, we conducted the 2014 National Candidate Study (NCS), an original combined online and mail survey of sitting state legislators and candidates running for state legislature. The survey was fielded in October 2014.

To build the sampling frame of candidates running for state legislature and sitting state legislators running for reelection, we obtained their names and contact information from Project Vote Smart, which maintains a comprehensive database of candidates for office nationwide, and invited all candidates by both mail and email if possible. For the responses, 1,803 candidates responded for an overall response rate of 20.8%, substantially higher than most elite surveys and surveys of the general public. Of the respondents, 950 won their general election and took seats in state legislatures in 2015, and 685 already held office. Importantly, the NCS was designed to minimize the chance of staff responding to the survey instead of politicians themselves. 13

We also conducted a similar survey in 2012, described in Online Appendix C, which we discuss later in the article to establish the generalizability of our results across election types and issue areas.

### Representativeness

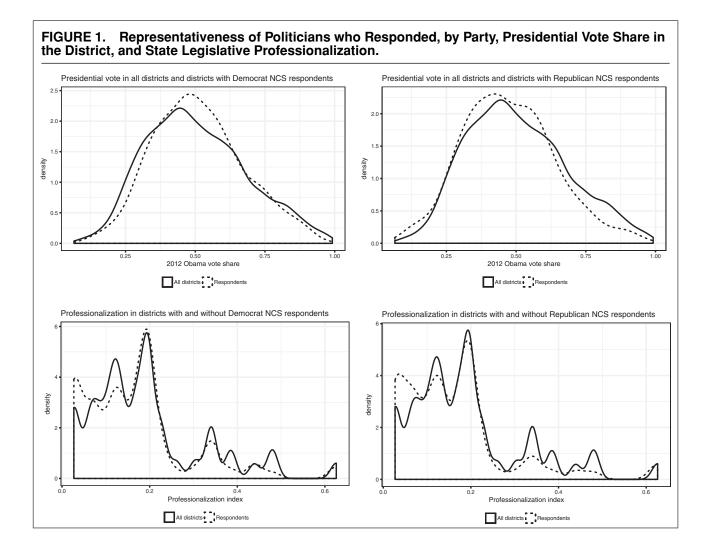
The politicians who responded to the 2014 NCS were broadly representative of the overall population of general election candidates for state legislative offices. Figure 1 plots the distributions of Obama's share of the 2012 two-party vote in each politician's district and Squire's (2007) measure of state legislative professionalism, with separate density plots for the entire sampling frame of candidates for office and for just the

<sup>&</sup>lt;sup>9</sup> Miller and Stokes (1963) conducted one of the first systematic investigations of how politicians see their constituents, and other scholars in the 1960s and 1970s followed in Miller and Stokes's (1963) footsteps (e.g., Kuklinski and Elling 1977; Uslaner and Weber 1979; Hedlund and Friesema 1972).

<sup>&</sup>lt;sup>10</sup> One prominent example is the structured interviews conducted by Miler (2010), who finds that legislators and their staff generally think of their constituencies in a fragmented and inaccurate way, recalling only a small subset of relevant constituencies on any given topic.

 $<sup>^{11}</sup>$  We selected legislators in states that had elections in 2014 (all states except Louisiana, Mississippi, New Jersey, and Virginia). Our analysis excludes respondents from New Hampshire's House floterial districts, who cannot be easily matched to census geographies. We collected mailing addresses and email addresses for each candidate from Project Vote Smart, restricting our sample to major party candidates. Many candidates had both forms of contact information available and almost all had at least one form. Of the 8,965 candidates listed as running, 8,858 candidates had a mailing address available and 4,775 candidates had an email address available. In early October, all candidates for whom we had a mailing address on file received a postcard announcing the survey. Candidates with email addresses on file then received three email invitations over the course of about three weeks. In mid-October, all candidates with mailing addresses on file who had not already taken the online version of the survey received a paper copy of the survey that they had the opportunity to mail back to us.

<sup>&</sup>lt;sup>12</sup> For the responses, 1,175 responded to the email solicitation, 84 responded online after receiving the mail version, and 610 returned the paper version of the survey, for a total sample size of 1,803 politicians.
<sup>13</sup> In particular, the online version of the survey had a screener question that shut down the survey if the respondent did not report personally being a candidate. The paper version of the survey also included this screener question, with bold text that said that the survey was only for candidates. Also, where multiple email or mailing addresses were available in the Project Vote Smart database, we chose the ones most likely to be the candidate's home address or personal email as opposed to campaign office addresses.



politicians who responded to the NCS. The left column displays the distributions of districts with and without a Democratic respondent, while the right column displays the same for Republican respondents. There are no major differences that would suggest that our respondents from either party are unrepresentative of the broader population of state legislative districts. Online Appendix D provides additional representativeness assessments. There we find that Democrats and nonincumbents were slightly more likely to respond, and so later in the article we show the results separated by party and incumbency status. We do not find any differences between response rates for those who were running for upper or lower legislative chambers. There we also give the question wording for the questions we asked about candidates' ideology and the number of polls they took.

#### Issues and Instrumentation

To compare elites' perceptions to reasonably precise estimates of true public opinion, we asked them to estimate constituency opinion on items that were being contemporaneously asked in the 2014 CCES, a large sample survey (N = 56,200) (Ansolabehere and

Schaffner 2015). We were therefore constrained in the kinds of issues we could ask about, as the CCES only asked the full public sample about their opinions on a limited set of issues. However, the CCES had several issue items that corresponded well to debates that were highly publicly salient in states during this period, including debates over same-sex marriage, gun control, immigration, <sup>14</sup> and abortion. Most of these are relatively salient, "easy" issues where public opinion has remained relatively stable, so we expected politicians to be especially likely to have accurate estimates of them. (Later we present data from a pilot study in 2012 that has two economic issues.)

In Table 1, we report the specific CCES items we asked politicians to estimate. We also report the national level of support among opinion holders from the 2014 CCES, using the weights provided by the CCES and among voters the CCES validated to have ultimately voted in 2014. We also report whether a

<sup>&</sup>lt;sup>14</sup> Even though much immigration policy is inherently a federal issue, states faced numerous questions during this period about whether to extend "sanctuary" status to undocumented immigrants, whether to allow immigrants to get driver's licenses, and so on. One of our immigration items closely aligns with the hotly contested debate over Arizona's SB1070.

TABLE 1. Issue Questions from the 2014 National Candidate Study, with Weighted National Levels of Support from the CCES.

Issue Item Wording	National Mean	Mean Among 2014 Voters	"Yes" direction	Status quo change?
"Allow gays and lesbians to marry legally." "Let employers and insurers refuse to cover birth control and other health services that violate their religious beliefs."	56% 43%	54% 47%	Liberal Conservative	Some states No
"Require background checks for all gun sales, including at gun shows and over the Internet."	87%	86%	Liberal	Yes
"Ban assault rifles."	61%	60%	Liberal	Yes
"Allow police to question anyone they think may be in the country illegally."	37%	41%	Conservative	Yes
"Grant legal status to all illegal immigrants who have held jobs and paid taxes for at least 3 years, and not been convicted of any felony crimes."	47%	46%	Liberal	Yes
"Always allow a woman to obtain an abortion as a matter of choice."	57%	54%	Liberal	Yes

response of "Yes" to the issue question reflects a conservative or liberal preference and whether the issue question would reflect a change in the status quo at the national level. As Table 1 indicates, the issue questions we chose vary along these dimensions. This was a deliberate choice: We wanted a mix of popular, unpopular, and controversial policy statements to avoid ceiling or floor effects in politicians' estimates of opinion. We did not always want a "Yes" response to the survey question to represent a particular ideological direction, nor did we want all of the questions to represent a status quo change. We were, however, constrained to issues covered in the common content of the CCES, the only publicly available survey with a sample size large enough for our purpose. 15 Online Appendix E shows that the national means on the CCES to these items are similar to the national means for similar items on other surveys, suggesting representativeness issues with the CCES are unlikely to have spuriously generated our main findings.16

Following Warshaw and Rodden (2012), CCES respondents are matched to state legislative districts using their zip code and their race. Nearly all respondents are matched to districts with certainty, although to avoid biases from dropping respondents, we conduct a full join and weight observations based on the certainty with which they are matched.<sup>17</sup>

To examine politicians' beliefs about the districts in

which they were running, the NCS asked each politi-

cian to estimate, "What percent of the people living

in your district would agree with the following state-

ments?" before providing a subsample of the items in

Table 1 with essentially the exact same wordings that

appeared on the 2014 CCES.<sup>18</sup> We chose this word-

ing to measure political elites' perceptions of their geo-

graphic constituency's opinion, because it most closely

maps to the theoretical puzzle that motivated our study, asymmetric polarization, which makes important ob-

servations about median constituency opinion. In ad-

racy of politicians' perceptions of their districts. Our first strategy is to estimate a grand (weighted) mean of

dition, it is possible to objectively measure the correct answer to this question.<sup>19</sup> POLITICIANS' PERCEPTIONS OF CONSTITUENCY OPINION We use two empirical strategies to examine the accu-

 $<sup>^{15}</sup>$  Recent high-profile errors of national and state polls in American politics provide some caution about interpreting these results, but we will show that the magnitude of the differences between CCESmeasured opinion and politicians' perceptions of this opinion will be many times larger than these errors.

<sup>&</sup>lt;sup>16</sup> Our findings that many liberal policies are popular in many districts is broadly consistent with Ellis and Stimson (2012), who find that Americans tend to have liberal views on specific policies.

 $<sup>^{\</sup>rm 17}$  We use the Missouri Census Data Center's MABLE/Geocorr tool to match zip codes to state legislative districts.

<sup>&</sup>lt;sup>18</sup> Table A4 shows the wording of the NCS items we used to query politicians' perceptions, as also shown in Table 1, alongside the wording for the original items on the CCES. As can be seen, we constructed the item wordings to be essentially identical. All elite respondents were shown the first two items, about same-sex marriage and birth control exemptions. Respondents were randomly assigned one of the two items about gun control, one of the two items about immigration, and one of two items about abortion, such that each respondent made five total estimates. One of the abortion items was dropped from our analysis, as described in the Online Appendix.

<sup>&</sup>lt;sup>19</sup> We also could have also asked politicians to estimate opinion among "subconstituencies" beyond their geographic constituency, such as among those who care most about an issue, among fellow partisans, or among other groups (Fenno 1977). We would encourage further research to add to our findings by doing so. We believe politicians' perceptions of public opinion within such subconstituencies are also important; focusing on overall opinion in politicians' geographic constituencies simply represents a starting point given our particular theory and motivation.

opinion across all districts where politicians responded and compare this to the mean of their perceptions. Our second strategy is to compute estimates of opinion in each district using MRP. Neither of these approaches rely on us having completely accurate estimates of of public opinion in any particular district; rather, we rely on average differences across districts. Moreover, although each of these approaches entails differing assumptions, they ultimately yield highly similar conclusions.

### **Empirical Strategy 1: Raw Data**

For our first approach, we compare the average of politicians' perceptions across all the districts where politicians responded to the CCES estimate of public opinion across all the districts where politicians responded. Our estimation strategy is as follows. Let C represent the set of all CCES respondents who live in districts where a politician responded to our survey, with CCES respondents indexed by c and issues by i. Denote opinions expressed on issue i by CCES respondent c as  $o_{c,i}$ . All the CCES questions we use are binary choice, such that  $o_{c,i} \in \{0,1\}$ . Let  $p_{c,i}$ represent the perception of the politician in c's district of average support for issue i; that is,  $p_{c,i}$  is a politician's estimate of  $E(o_{c,i})$  for their district. The average of  $p_{c,i}$  $-o_{c,i}$  within each district thus represents an estimate of politicians' average overestimation of support for policy i. For example, suppose a politician perceives support for a policy in their district at 80% but true support is only 60%. In this example,  $E(p_{c,i} - o_{c,i}) =$  $0.8 - E(o_{c,i}) = 0.8 - 0.6 = 0.2$ . To estimate politicians' average overestimation of support for issue i, we estimate the mean of  $p_{c,i} - o_{c,i}$  across all the CCES respondents.<sup>20</sup> To incorporate the CCES sampling weights, we take the weighted mean of this quantity, multiplying by the CCES weights  $w_c$ , which have mean one. In addition, because the CCES has many more respondents from larger districts than smaller districts, we weight these estimates inversely to district size so that politicians from large districts and small districts matter equally. In particular, we weight each CCES observation by  $\frac{s_c}{s_c}$ , where  $s_c$  is the size of each CCES respondents' district in 2014 according to the US Census. This makes politicians the effective unit of analysis and counts politicians from small and large districts equally. Our results are similar regardless of the weighting approach we use, however.

Given this setup, politicians' mean perception can be estimated with

$$\widehat{\bar{p}}_i = \frac{\sum_{c \in C} \left[ p_{c,i} w_c * \frac{\bar{s}_c}{s_c} \right]}{n(C)} \approx \bar{p}_i, \tag{1}$$

where n(C) is the number of CCES respondents. We can estimate public opinion in the average district—

what politicians' average perceptions would be if their perceptions were perfectly accurate—using

$$\widehat{o_{c,i}} = \frac{\sum_{c \in C} \left[ o_{c,i} w_c * \frac{\overline{s_c}}{s_c} \right]}{n(C)}.$$
 (2)

This quantity can be interpreted as "the expectation of district opinion in the district of a politician who responded chosen at random."

Ultimately, we seek to estimate  $\bar{y_i}$ , politicians' average overestimation of district support for issue i:

$$\widehat{\overline{y}}_i = \frac{\sum_{c \in C} \left[ (p_{c,i} - o_{c,i}) w_c * \frac{\overline{s_c}}{s_c} \right]}{n(C)}.$$
 (3)

The standard errors of our estimates of each of these quantities are cluster bootstrapped, with clustering at the district level for politicians and misperceptions and at the respondent level for public opinion.

Figure 2 and Table 2 show the results of this approach. For example, when it comes to the issue of same-sex marriage, we estimate that 56.6% of residents of the "average district" supported same-sex marriage, whereas NCS respondents on average perceived their districts as 49.6% supportive, meaning they on average overestimated opposition to same-sex marriage by about seven percentage points. Elites likewise overestimate the percentage of the public that supports conservative policy positions across all the other policies. Politicians' overestimation of conservatism is even larger on other issues, with a maximum of about 36 percentage points for the issue of background checks for guns—one of the issues where previous research indicates conservative constituents are the most well organized and likely to participate in the public sphere (Goss 2008).

Later in the article, we also conduct this analysis for only incumbents, for only candidates who won their elections, for only candidates in very close and competitive districts, and for only those who ran in states with professionalized legislatures. The results are unchanged, suggesting that these results are not an artifact of responses from unserious candidates who went on to lose.

### **Empirical Strategy 2: MRP**

We gain additional inferential leverage on the relationship between politicians' perceptions and true geographic constituency opinion by estimating support for each issue in all of the nation's state legislative districts using multilevel regression and poststratification (MRP) (Eggers and Lauderdale 2016; Hanretty, Lauderdale, and Vivyan 2016; Lax and Phillips 2009a, 2009b, 2012; Park, Gelman, and Bafumi 2004; Warshaw and Rodden 2012). This facilitates more nuanced dyadic comparisons of politicians' perceptions and estimates of opinion in their specific districts, in addition to

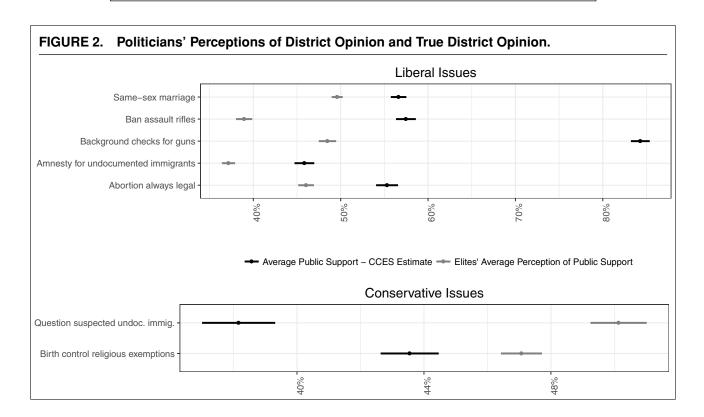
 $<sup>^{\</sup>rm 20}$  We acknowledge Doug Rivers for this suggestion.

TABLE 2. Raw Data Estimates of Politicians' Perceptions, True District Opinion, and Politicians' Misperceptions.

Issue	Actual Public Opinion	Elite Perception	Average Misperception
	2014 Poli	ticians - Libe	ral Policies
Same-sex marriage	56.63	49.60	-7.03***
•	(0.89)	(0.63)	(0.91)
Ban assault rifles	57.47	38.95	<b>- 18.46</b> ***
	(1.14)	(0.93)	(1.32)
Background checks for guns	84.30	48.48	-35.79***
	(1.08)	(1.00)	(1.34)
Amnesty for undocumented immigrants	45.85	37.16 <sup>°</sup>	-`8.69 <sup>*</sup> **
,	(1.13)	(0.76)	(1.14)
Abortion always legal	SS.31	46.04	−`9.28 <sup>*</sup> **
, ,	(1.26)	(0.90)	(1.29)
	2014 Politici	ans - Conser	vative Policies
Question suspected undoc. immig.	38.16	50.13	11.97***
	(1.15)	(0.89)	(1.31)
Birth control religious exemptions	43.55	47.07 <sup>°</sup>	`3.57 <sup>*</sup> **
,	(0.92)	(0.65)	(0.95)

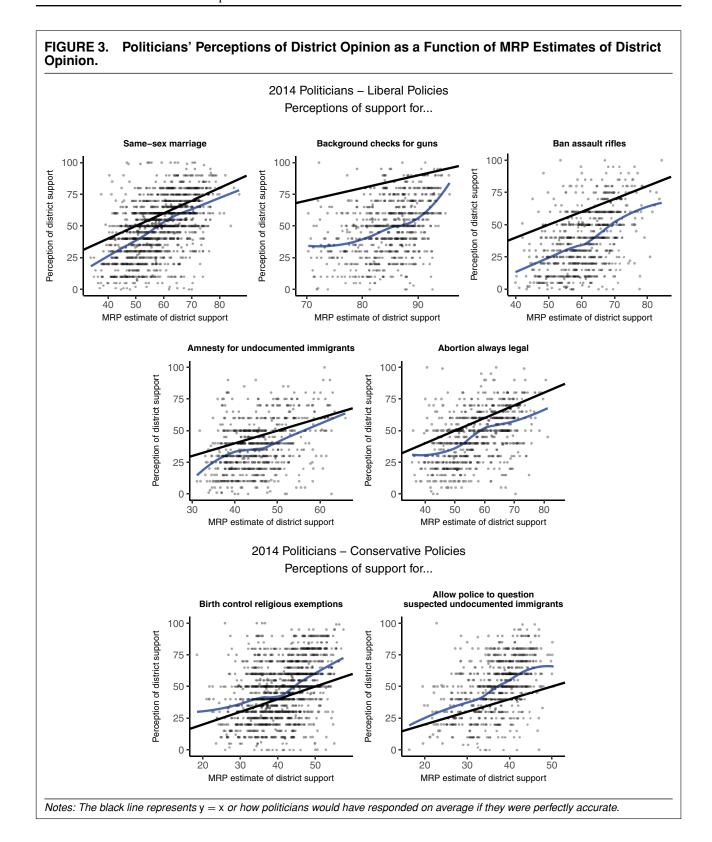
<sup>\*\*\* =</sup> p < 0.001, \*\* = p < 0.01, \* = p < 0.05.

Notes: Standard errors are cluster bootstrapped at the CCES respondent level for public opinion and at the district level for elite perceptions and for misperceptions.



illustrating the robustness of our results to any concerns with the raw data analysis. More details on our MRP procedure are in Online Appendix F. There we also present robustness checks and estimates of uncertainty. MRP uses individual-level survey data and demographic information about the districts from the US Census to construct district-level estimates of support for each issue. Our MRP procedure first fits multilevel

choice models to the responses to each issue question from the 2014 CCES. Each model returns estimated effects for demographic and geographic predictors. We then use the estimates from the multilevel model to estimate support for various demographic cells, identified by age, race, education, gender, and district. Finally, using data from the US Census' American Community Survey, we weight those cells by their frequency in each



district. The result is an estimate of the percentage of each district supporting each issue. We then matched these estimates for each district with politicians' perceptions of that district.

Figure 3 shows the result. Each panel of Figure 3 shows the results for one issue. In each panel, we

show how politicians' perceptions of public opinion on that issue vary as a function of the MRP estimate of true public opinion on that issue in their district. The *y*-axis in each panel represents politicians' estimates of support in their districts and the *x*-axis shows the MRP estimates of public opinion in these same

districts. Each point on the graph represents one politician's response. The striated bands of responses reflect that politicians usually answered in increments of five percentage points. Loess smoothers summarize the average of politicians' perceptions in each district as a function of the MRP estimate of district support. The straight black line represents the function y = x, where politicians would have answered on average were they perfectly accurate. For simplicity, we organize the figures by first presenting questions where higher values of support reflect a liberal position and then questions where higher values of support reflect a conservative position.

Figure 3 illustrates the nuanced nature of our findings for democratic responsiveness. On the one hand, politicians are strongly responsive to public opinion, in the sense that there is a strong and strikingly linear relationship between our estimates of reality and their perceptions.<sup>22</sup> Yet there is a substantial "intercept shift" in every panel in Figure 3, such that politicians substantially overestimate support for conservative positions and underestimate support for liberal ones. Such misperceptions are unlikely to disappear in aggregate, unlike simple random errors in individual politicians' perceptions would (Weissberg 1978).

The magnitude of these shifts corresponds well with the point estimates from the raw data approach. As before, these elites are especially inaccurate on the gun control policies, which command broad support across districts. Indeed, we estimate that banning assault rifles has majority support in almost all districts and that support for background checks is over 70% in all districts, despite the fact that most politicians perceive the public as fairly evenly divided or even opposed to these measures. Appendix F.3 also presents 95% confidence intervals for the size of politicians' errors and their overestimation of conservatism as calculated on the basis of the MRP estimates; these intervals are similar in width to the 95% confidence intervals of the raw data estimates.

## Robustness across Election Types and Issues: Pilot Study in 2012

We next present data from a pilot study we conducted in 2012 that speaks to the robustness of our findings in two ways: It included data on two additional economic issues and was conducted in a presidential election year. Further information on this sample is in Online Appendix C.<sup>23</sup>

In this 2012 pilot study, we asked candidates running for state legislature to estimate district support for three issues in their districts: same-sex marriage, universal healthcare, and abolishing all federal welfare programs. Table A3 presents question wording and weighted national support for these three issues.

Our measures of public opinion on these issues come from different years of the CCES, determined by question availability. This introduces two main weaknesses, we hasten to note. First, the closest healthcare question on the CCES was four years old and not an exact wording match, a question on the 2008 CCES that also included the phrase "even if it means raising taxes." Second, the question about all federal welfare programs only appeared on a (random) subsample of the CCES and only two years prior, in 2010.

Encouragingly, for the robustness of the conclusions in the main data, we see similar patterns in the 2012 pilot data. In particular, Figure A1 and Table 3 show candidates' average perceptions of public opinion on these three issues and the CCES estimates of public support in the "average district." We consistently find that they overestimate support for conservative positions by between 11 and 22 percentage points. For example, on the question of whether to abolish all federal welfare programs—an extreme conservative policy that very few Americans favor—support in the average district is approximately 9%, but politicians perceive it to be many times that, at almost 32%.<sup>25</sup>

### Robustness across Legislators, States, and Voters

The conservative biases we uncovered in politicians' perceptions of public opinion are robust across statistical methods, weighting approaches, states, districts, years, issues, and reference populations.

First, the results we presented above effectively used politicians as the unit of analysis, weighting the misperceptions of those in small districts with few constituents just as much as those with hundreds of thousands of constituents, like California State Senators. This raises the possibility that our findings are driven by politicians who represent small districts. Column 1 of Table 4 shows that the main misperception results remain the same when the data are reweighted in the opposite manner, such that all CCES respondents are weighted equally but politicians who represent larger districts are weighted higher.

Other robustness checks are similarly encouraging. The next column of Table 4 shows the results when we subset to states with highly professionalized legislatures only, as measured by the Squire (2007) index

<sup>&</sup>lt;sup>21</sup> Given sampling variability in the MRP estimate, we would not expect politicians' responses to match the MRP estimates exactly, but we would expect the averages to align.

we would expect the averages to align.

22 The correlations between our perception estimates and the MRP estimates are also strong, although these correlations are not straightforward to interpret for several reasons, including that they are likely to be biased downward by sampling error in our public opinion estimates (Achen 1977).

<sup>&</sup>lt;sup>23</sup> In general, the 2012 NCS was quite similar in design to the 2014 NCS and achieved a similarly high response rate and fairly representative sample. We received 1,606 responses in total in 2012, with 655 of these coming from incumbents, 270 from nonincumbents who won and served in 2013, and 681 from nonincumbents who lost.

<sup>&</sup>lt;sup>24</sup> This wording change should bias against our findings, however, as mentioning taxes in a question about universal healthcare should make our estimate of public support for this policy more conservative. Consistent with this, other national surveys with the question wording we presented on the NCS yield means that are even more supportive.

<sup>25</sup> A postelection survey in 2012 also found the second survey.

<sup>&</sup>lt;sup>25</sup> A postelection survey in 2012 also found that these same misperceptions persisted after the election, suggesting they are also not an artifact of the time of the electoral cycle at which we asked them.

TABLE 3. Raw Data Estimates of Politicians' Perceptions, True District Opinion, and Politicians' Misperceptions, 2012 Pilot Study.

Issue	Actual Public Opinion	Elite Perception	Average Misperception
	2012	Politicians - Liberal	Policies
Universal healthcare	57.29	43.45	- 13.48***
	(1.06)	(0.57)	(1.12)
Same-sex marriage	54.47	43.21	- 11.26***
•	(1.15)	(0.85)	(1.15)
	2012 Pd	oliticians - Conservat	ive Policy
Abolish all fed.	9.44	31.90	22.04***
welfare programs	(2.04)	(0.63)	(2.24)

<sup>\*\*\* =</sup> p < 0.001, \*\* = p < 0.01, \* = p < 0.05.

Notes: Standard errors are cluster bootstrapped at the CCES respondent level for public opinion and at the district level for elite perceptions and for misperceptions.

TABLE 4. Robustness of Misperceptions across Subsamples and Approaches.

	Average Misperceptions					
Issue	Weighting to Constituents	Professionalized Legislatures Only	Winners Only	Incumbents Only	Competitive Districts Only	2014 Voter Opinion Only
	2014 Politicians - Liberal Policies					
Abortion always	- 10.0***	- 11.6***	- 9.3***	- 9.5***	− 8.5*	$-8.5^{***}$
legal	(1.2)	(1.8)	(1.6)	(1.8)	(3.4)	(1.5)
Ban assault	- 18.2 <sup>*</sup> **	$-20.8^{***}$	- 1`5.9 <sup>*</sup> **	- 14.8 <sup>*</sup> **	- 22.2 <sup>*</sup> **	- 19.6 <sup>*</sup> **
rifles	(1.3)	(1.9)	(1.6)		(2.7)	(1.6)
Background checks	− 36.1 <sup>*</sup> **	- 35.2 <sup>*</sup> **	- 35.3 <sup>*</sup> **	- 32.0***	− 31.9 <sup>*</sup> **	$-37.3^{***}$
for guns	(1.5)	(2.1)	(1.7)	(2.2)	(3.8)	(1.4)
Amnesty for	- 7.7 <sup>*</sup> **	−`5.9 <sup>*</sup> *	-\ 8.2***			-`8.0 <sup>*</sup> **
undoc. immigrants	(1.1)	(2.1)	(1.5)	(1.7)	(2.6)	(1.4)
Same-sex	- 7.9***	<b>_`7.8</b> ***	- 6.5***	− 5.9 <sup>*</sup> **	<b>– 4.7</b>	- 6.1***
marriage	(0.9)	(1.4)	(1.2)	(1.4)	(2.5)	(1.1)
•	` ,	2012		Liberal Policie		. ,
Universal	- 14.9***	<b>- 12.9</b> ***	<b>– 15.1</b> ***	<b>- 13.5</b> ***	-13.7***	-
healthcare	(0.9)	(1.3)	(1.5)	(1.6)	(2.0)	
Same-sex	- 12.3***	- 11.4***	<b>- 9.7</b> ***		<b>- 10.7</b> ***	-
marriage	(0.9)	(1.4)	(1.5)	(1.7)	(2.1)	
		2014 Poli	iticians - Co	nservative Pol	licies	
Question suspected	11.7***	11.4***	12.4***	11.3***	13.7***	9.5***
undoc. immig.	(1.2)	(2.0)	(1.8)	(2.3)	(2.5)	(1.6)
Birth control	1.5	1.2	4.8***	3.2*	2.2	-0.3
religious exemptions	(1.0)	(1.6)	(1.3)	(1.5)	(2.2)	(1.2)
				onservative Po		
Abolish fed.	20.5***	18.8***	23.2***	26.4***	14.9***	-
welfare programs	(2.0)	(3.3)	(2.8)	(3.1)	(4.4)	

of state legislative professionalism.<sup>26</sup> The results look similar for the state politicians whose campaigns and offices look much more similar to highly professionalized bodies. Although whether our findings would generalize to Members of Congress is an open question, this finding is provisionally encouraging. The next two

columns of Table 4 show that the results also remain unchanged when we examine only politicians who won (e.g., for the 2014 data, those who were in office as of 2015) and when we examine incumbents only (e.g., for the 2014 data, those who were in office in 2014 and seeking reelection).

The next-to-last column of Table 4 shows that the results also hold when we subset to only the very most competitive districts in the sample using a stringent inclusion criteria: where Obama vote share was between

<sup>&</sup>lt;sup>26</sup> We examine states where the Squire (2007) index is greater than 0.2. These are AK, AZ, CA, CO, FL, HI, IL, MA, MI, NY, OH, PA, and WI.

TABLE 5. Partisan Differences in Misperceptions: Raw Data.

	Democratic Elites		Republican Elites			
Issue	Actual Public Opinion	Elite Perception	Average Misperception	Actual Public Opinion	Elite Perception	Average Misperception
			2014 Politicians	- Liberal Policie	es	
Abortion always legal	56.29	50.66	<b>-</b> 5.65***	53.89	39.29	<b>– 14.56***</b>
, ,	(1.39)	(1.15)	(1.55)	(1.72)	(1.24)	(1.78)
Ban assault rifles	\$7.82 <sup>′</sup>	44.36 <sup>°</sup>	- 13.36 <sup>*</sup> **	56.97	30.71	- 26.23 <sup>***</sup>
	(1.22)	(1.27)	(1.58)	(1.67)	(1.36)	(1.95)
Background checks	84.71	52.67 <sup>′</sup>	- 32.04***	83.66	42.05	- 41.58 <sup>*</sup> **
for guns	(1.06)	(1.32)	(1.50)	(1.60)	(1.48)	(2.04)
Amnesty for undoc.	46.85	40.95	- 5.90***	44.35	31.42	- 12.93 <sup>*</sup> **
immigrants	(1.28)	(0.95)	(1.23)	(1.68)	(1.24)	(1.86)
Same-sex marriage	57.40	55.32	-2.09 <sup>*</sup>	55.47	40.91	- 14.54***
	(0.93)	(0.78)	(0.98)	(1.27)	(0.89)	(1.36)
	( /	,	2012 Politicians	- Liberal Policie	es `´´	, ,
Universal healthcare	59.60	52.24	-7.35***	54.39	33.20	<b>– 21.19</b> ***
	(1.38)	(0.79)	(1.47)	(1.35)	(0.88)	(1.47)
Same-sex marriage	\$6.87 <sup>′</sup>	S1.05	- 5.82 <sup>*</sup> **	5̀1.31 ์	32.89	- 18.43 <sup>*</sup> **
3	(1.52)	(0.99)	(1.58)	(1.38)	(1.04)	(1.51)
	( /		14 Politicians - C		icies	, ,
Question suspected	39.15	47.08	7.93***	36.64	54.85	18.22***
undoc. immig.	(1.43)	(1.17)	(1.59)	(1.42)	(1.55)	(1.84)
Birth control	42.86	40.25 <sup>°</sup>	−`2.53 <sup>*</sup>	44.59	5̀7.53 ́	12.89***
religious exemptions	(0.99)	(0.72)	(1.13)	(1.28)	(0.98)	(1.57)
	, ,		012 Politiciáns - (		olicy `	, ,
Abolish fed.	10.69	26.44	15.76***	7.92	37.64	29.72***
welfare programs	(2.43)	(1.85)	(2.28)	(2.55)	(2.48)	(3.61)

45% and 55% in 2012. The standard errors increase because this is a smaller subsample, but the point estimates remain similar.

In the last column of Table 4, we show that the results also hold when we compute public opinion among CCES respondents who administrative records show voted in the 2014 election and compare politicians' perceptions of their districts to these voters' opinion. We still find similar overall results.

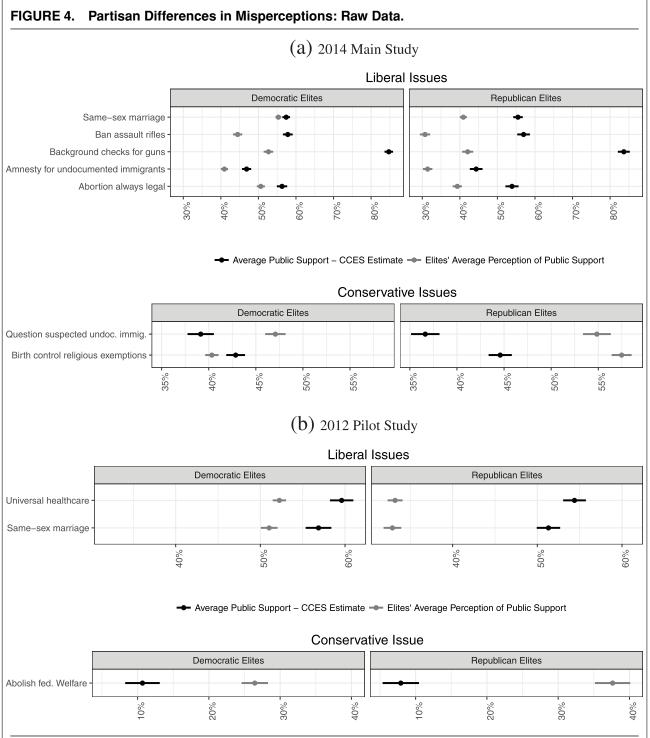
### PARTISAN ASYMMETRIES IN ELITE MISPERCEPTIONS AND MASS ACTIVISM

When we examine the patterns of misperceptions by politicians' party, it is clear that Republican politicians drive the bulk of the conservative-leaning misperceptions we found. Figure 4 and Table 5 show that Republican politicians and Democratic politicians both overestimate their constituents' conservatism, but that Republican politicians do so to a much greater extent. Democrats and Republicans both overestimate their constituents' conservatism on every single issue, with the one exception that Democrats very slightly underestimate support for the conservative birth control religious exemptions policy. Republicans overestimate support for the conservative position on every issue by over ten percentage points and often by over 20 percentage points. Republicans also overestimate conser-

vatism more than Democrats on every issue, often by over ten percentage points.

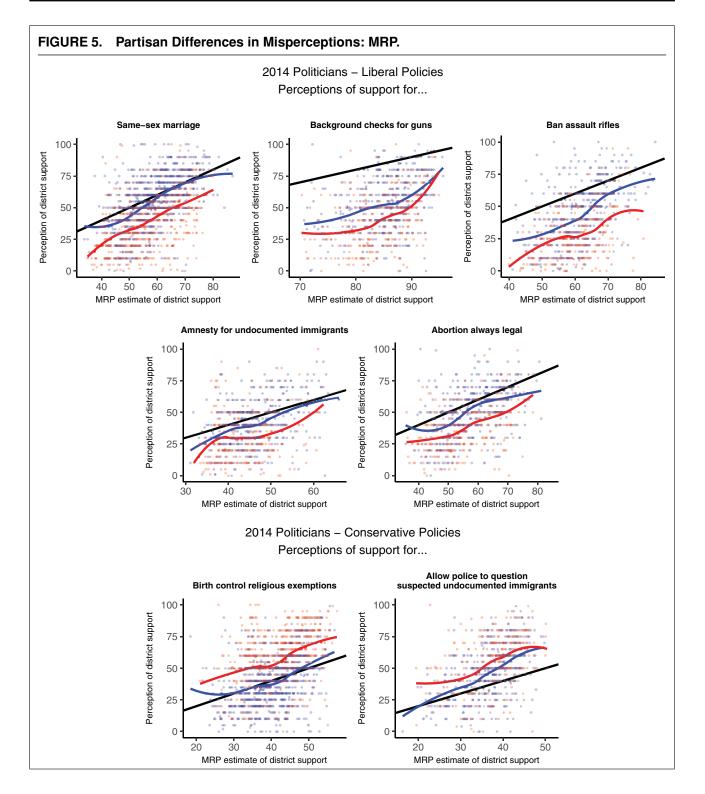
These differences are especially stark when examining the relationship between district opinion and politicians' perceptions visually with the aid of MRP. Figure 5 shows a version of Figure 3 with the results split by politicians' party. For example, on the issue of same-sex marriage, constituency support must be at roughly 55% before the majority of Democratic candidates believe their constituencies barely favor same-sex marriage. Republicans, on the other hand, almost never believe their constituents favor same-sex marriage; district support must be above 70% before they think their constituents are barely in favor. Likewise, in districts where the public is evenly split on same-sex marriage, the average Republican believes the public is opposed by nearly three to one. Such patterns seem likely to help explain the puzzle of why so many Republican politicians remain opposed to samesex marriage even though their constituents favor it (e.g., Krimmel, Lax, and Phillips 2016); Republicans do not appear to realize this is the case. Intriguingly, even though the correlation between public opinion and perception of this opinion is similar for Republicans and Democrats, Republicans' greater "intercept shift" means that they misperceive public opinion far more.

With this said, Figure 5 also rules out two simple alternative explanations for our findings. First, we can



Notes: The figure shows our estimates of public support in the average district where an elite responded, in black, and the average political elites' perception of support in those districts, in gray. The subfigures are broken down by year, whether a "yes" on the issue is liberal or conservative, and the party of the elite.

rule out the possibility that politicians simply will not admit to us that they are on the wrong side of the median voter. In fact, on essentially every issue, we see that substantial numbers of politicians indicated to us that they believed their party's position (which is nearly always their own) is the minority position in the district—even in many cases where we are confident the majority of voters actually do share their party's view. Second, Democratic politicians also overestimate constituency conservatism, which suggests these misperceptions cannot be attributed to motivated reasoning or social desirability bias alone.



As with our previous results, these partisan differences in misperceptions are robust when we examine incumbents only, winners only, and weight to voters. The first two columns of Table 6 show that they are also robust in professionalized legislatures only. The next two columns show that they also remain similar in the subset of very competitive districts where Obama received between 45% and 55% of the two-party vote in 2012. This is a smaller subset of districts, and so the

standard errors increase, but the point estimates remain similar.

The final two columns of Table 6 present a result that bears special note: that the same partisan difference in misperceptions also holds in just the subset of districts where we received responses from both the Democratic and Republican candidate in a district. The standard errors are much larger because this was a rare occurrence, but this allows us to hold constant

			Average Mis	perception		
	Professionali	zed Legislatures	Competiti	ive Districts	Both Partie	s Responded
Issue	Democrats	Republicans	Democrats	Republicans	Democrats	Republicans
	2014 Politicians - Liberal Policies					
Abortion always	− 7.19**	<b>– 17.36***</b>	-3.18	<b>– 15.94</b> **	1.12	-6.89
legal	(2.21)	(2.69)	(3.68)		(5.81)	(7.00)
Ban assault	- 16.77 <sup>*</sup> **	– 26.50 <sup>***</sup>	– 19.99 <sup>*</sup> **	– 25.06 <sup>*</sup> **	- 10.54 <sup>°</sup>	- 23.37 <sup>*</sup> **
rifles	(2.40)	(3.02)	(3.46)	(3.71)	(6.62)	(4.97)
Background checks	- 30.48 <sup>*</sup> **	- 45.13 <sup>*</sup> **	- 27.34 <sup>*</sup> **		– 27.81 <sup>*</sup> *	- 39.39 <sup>*</sup> **
for guns	(2.35)	(3.34)	(4.28)	(4.73)	(9.36)	(7.58)
Amnesty for	_`2.79 <sup>′</sup>	− 1`1.65 <sup>*</sup>	−`9.80 <sup>*</sup> *	- 16.94 <sup>*</sup> **	- 13.43 <sup>*</sup> **	- 16.38 <sup>*</sup> *
undoc. immigrants	(1.89)	(4.58)	(3.41)	(3.88)	(3.76)	(5.21)
Same-sex	-2.39	- 17.00***	-0.20	<b>– 11.88</b> **	2.96	-9.78**
marriage	(1.48)	(2.48)	(2.24)		(3.04)	(3.23)
		2012	2 Politicians -	<b>Liberal Policie</b>	s	
Universal	-7.20***	-22.12***	-7.20***	-20.23***	-5.52	- 16.24***
healthcare	(1.44)	(2.07)	(1.44)	(2.89)	(3.90)	(3.62)
Same-sex	<b>- 5.14</b> ***	- 21.32***	-5.14***	- 17.59***	-1.90	- 17.56***
marriage	(1.45)	(1.92)	(1.45)	(3.27)	(2.82)	(3.88)
	2014 Politicians - Conservative Policies					
Question suspected	9.84***	14.07***	9.87***	21.04***	13.11	23.59***
undoc. immig.	(2.72)	(2.85)	(2.71)	(4.45)	(7.17)	(5.77)
Birth control	-3.23	8.87**	-3.51	11.25**	-4.49	14.42***
religious exemptions	(1.86)	(2.72)	(2.29)	(3.57)	(3.08)	(3.14)
				onservative Po	•	
Abolish fed.	14.47***	25.37***	14.47***	16.80*	24.28***	31.78***
welfare programs	(3.12)	(5.99)	(3.12)	(8.18)	(5.36)	(6.06)

public opinion and show that Democrats and Republicans see the same constituents differently. This means we can confidently reject the alternative explanation that politicians perceive opinion accurately but that our estimates or inherent flaws in public opinion data in general (or the CCES in particular) are responsible for introducing bias; if two politicians perceive the same district differently, then they cannot both be right. Moreover, given the similar marginal distributions on the same issues on national polls as on the CCES presented in Online Appendix E, it is highly likely that Democrats' perceptions are more accurate.

# Do Omitted Variables Drive Partisan Differences in Perceptions of Public Opinion?

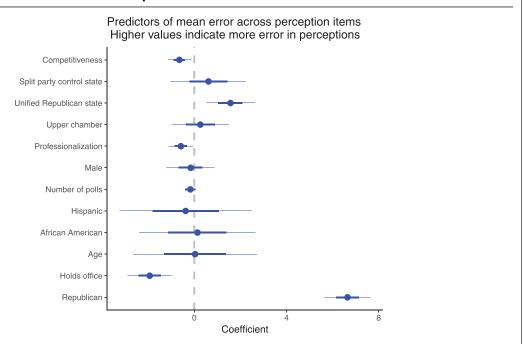
Are the partisan differences in the magnitude of politicians' misperceptions driven by omitted variables that correlate with party rather than representing true partisan differences in how Democrats and Republicians see their districts? As a reminder, the last columns of Table 6 showed that our findings held when we compared pairs of politicians providing their perceptions of the same districts, holding constant any confounders related to districts. With that said, there may be other confounders related to individuals. To examine these possibilities, we use a multivariate regression to estimate the relationship between the accuracy of politi-

cians' perceptions of public opinion using party and several covariates based on other survey items from the NCS that might be related to the accuracy of their perceptions. The outcome variable is specified as the politicians' mean absolute error or the mean of the difference between their perceptions and the MRP estimates. The results are summarized in Figure 6, in which all variables are scaled to standard deviation one for comparability and higher values for the coefficients reflect more error in perceptions.

We find that errors in perceptions differ in predictable ways, but that by far the largest determinant of misperceptions is that Republicans make much larger errors than Democrats do. Other patterns include that politicians who already held office in 2014 and politicians in competitive elections both have slightly more accurate perceptions.<sup>27</sup> Somewhat surprisingly,

<sup>&</sup>lt;sup>27</sup> That politicians who already hold office are more accurate may well be due to selection: Presumably, individuals who are higher quality and more accurately perceive the public are more likely to win office in the first place. That politicians are more accurate when they are running in competitive elections could reflect their greater incentives to perceive the median voter or that those in uncompetitive districts may spend comparatively more time with copartisans and primary voters. Politicians running in states where the government was under unified Republican control at the time of the 2014 election were also somewhat less accurate than politicians running in states with split control or unified Democratic control. We find no significant differences between candidates who were running for upper or lower houses of legislatures.





Notes: All point estimates are coefficients from a linear regression with the outcome as the absolute value of the difference between the MRP estimate of district opinion and the politicians' perception of opinion. Positive point estimates indicator greater error. Competitiveness is defined as -1\*|Obama2012 - 0.5| rescaled to standard deviation one, where Obama2012 is Obama's two-party vote share in the district in 2012.

politicians who report taking more polls were not significantly less error prone.<sup>28</sup> The partisan difference remains robust in the presence of these covariates and remains clearly the largest estimate. For example, Republicans' greater inaccuracy is ten times larger than the average effect of being in a district one full standard deviation more competitive.

Online Appendix F.3 also presents 95% credible intervals for the size of politicians' errors and their overestimation of conservatism by party; these intervals are similar in width to the 95% confidence intervals of the raw data estimates above.

### Potential Mechanism: Partisan Asymmetries in Contact and Activism

What accounts for this partisan asymmetry in misperceptions? As we have discussed, one potential explanation for both parties' misperceptions is that politicians' information environments are not representative of their districts (Fenno 1977; Miller and Stokes 1963). The citizens who legislators and candidates meet are clearly not a representative sample: politicians may more frequently come in contact with constituents who seek out contact with them, those constituents who are identified as persuadable voters, and citizens who are more engaged in their communities.

What kind of citizens do politicians tend to come into contact with? As a proxy for the variety of experiences

politicians have where they may ascertain public opinion from who participates in the public sphere, we examine who reaches out to politicians to express their views. Data on contacting state-level politicians are rare, but some surveys have asked citizens about their patterns of contacting Members of Congress. Consistent with other recent work on activism since the mid-2000s (Goss 2008; Schlozman, Verba, and Brady 2012; Skocpol and Williamson 2011), these surveys reveal an important asymmetry: Republican citizens are more likely to indicate they have contacted their representatives than Democratic citizens are. In the 2012 American National Election Studies (ANES), Republicans were 28% more likely to say they had contacted their representatives than Democrats, and in the 2008 CCES Republicans were 39% more likely to have said they contacted their representatives than Democrats.<sup>25</sup> Taking these results at face value, even politicians in districts evenly divided across partisan lines would hear disproportionately often from Republican constituents.<sup>30</sup> For example, contacting behavior among gun owners could help explain why politicians' perceptions on that issue are especially skewed: gun owners are nearly twice as likely to contact elected officials than the general public, whereas gun owners who are

<sup>&</sup>lt;sup>28</sup> The majority of politicians in the sample reported taking no polls.

<sup>&</sup>lt;sup>29</sup> Table A1 reports the point estimates for 2008 and 2012. It also shows that these same divergences did not exist in the Presidential election year ANES surveys taken from 1980 to 1992.

<sup>&</sup>lt;sup>30</sup> Unfortunately, neither the CCES nor ANES asked about how many times an individual contacted their legislators' office.

TABLE 7. Democratic Politicians Hear from Republican Citizens Somewhat Disproportionately, but Republican Politicians Hear from Republican Citizens Especially Disproportionately.

(a) Descriptive differences between self-reported contacting behavior of Democrats and Republicans in Democratic and Republican districts.

	% of Democrats who contacted MC	% of Republicans who contacted MC
Districts with Democratic MCs	33.3%	36.4%
Districts with Republican MCs	30.4%	42.9%

(b) Aggregate consequences of descriptive differences for who Members of Congress hear from.

		Democratic US House Members	Republican US House Members
	Null: if every citizen contacted their legislator	36%	50%
Percentage of citizens contacting who are Republicans	Observed: among citizens who did contact their legislator	40%	62%
Overrepresentation of Republicans among citizens who contact legislators		12%	22%

members of the NRA are nearly four times as likely to do so.<sup>31</sup>

Not only are Republican citizens more likely to contact their representatives in general, but also, as a descriptive matter, Republican citizens reach out to Republican politicians especially often. Table 7a shows that, in districts represented by a Democratic Member of Congress (MC), Republicans in the 2008 CCES were about 9% more likely to contact their MC than Democrats. However, in districts with a Republican MC, Republicans were a full 41% more likely to contact their MC than Democrats.<sup>32</sup> Together, Republican citizens' higher probability of contacting politi-

cians in general and their especially high likelihood

These patterns suggest a potential mechanism for the partisan asymmetry in conservative misperceptions of public opinion we found in 2012 and 2014: the partisan asymmetry during these years in who reaches out to which politicians. If these patterns were to generalize

can citizens and shows that there appears to be a discontinuous jump in this quantity when a Republican just wins office.

of contacting fellow Republicans suggest two consequences: Democratic politicians should hear from Republican constituents slightly disproportionately and Republican politicians should hear from Republican constituents highly disproportionately. Table 7b illustrates this idea. The first row shows that if every citizen had contacted their US House member, the CCES indicates Democratic US House members would receive 36% of their contacts from Republicans while Republican US House members would receive 50% of their contacts from Republicans; 36% of individuals who live in districts a Democrat represents are Republicans and 50% of individuals who live in districts a Republican represents are Republicans. However, the contacting behavior we actually observe is skewed towards Republican constituents. A full 40% of the CCES respondents in Democratic districts who said they contacted their legislator were Republicans versus 36% in the district at large, indicating a 12% overrepresentation of Republicans among those who contact Democratic legislators. This disparity is even larger for Republican legislators; 62% of the CCES respondents who said they contacted their legislators were Republicans, even though only 50% of these legislators' districts are Republicans on average, a 22% overrepresentation.

<sup>&</sup>lt;sup>31</sup> Parker et al. (2017) find that "Gun owners are more likely than non-gun owners to have ever contacted a public official to express their opinion on gun policy. About one-in-five gun owners (21%) say they have done this, compared with 12% of non-gun owners." They also find that "46% of gun owners in the NRA say they have contacted a public official to express their opinion on gun policy." <sup>32</sup> The equations are as follows:  $\frac{36.4\% - 33.3\%}{33.3\%} \approx 9\%$ ,  $\frac{42.9\% - 30.4\%}{30.4\%} \approx$ 41%. Our claim here does not depend on a causal interpretation of this descriptive difference between how Republicans behave in Democratic- and Republican-leaning districts; it may simply be the case that Republicans are especially active in the kinds of districts where Republicans are elected for some other reason than the party of their MC. This would still result in the consequence that Republican legislators hear from Republican citizens especially often. With this said, Broockman and Ryan (2016) find that citizens tend to prefer contacting legislators who share their partisanship and demonstrate this pattern with other forms of evidence as well. It may be that there is a partisan asymmetry in the effects they documented, perhaps because of the greater salience of partisanship as a social identity for Republican citizens. Consistent with a potential causal interpretation of this difference, Online Appendix G conducts a formal regression discontinuity test that suggests at least some of this pattern may be causal. Figure A4 shows a regression discontinuity plot with the outcome variable as the percentage of contacts that come from Republi-

and politicians were to heavily rely on who contacts them when forming their perceptions of public opinion (Miller and Stokes 1963), then the patterns in Table 7 alone would generate the exact patterns of perceptions and misperceptions we found.

The Online Appendix presents additional tests of empirical implications of this mechanism that provide further suggestive support for it. In Table A1, we find that this partisan difference in contacting did not appear in comparable surveys in previous decades, and Online Appendix I shows that the patterns of misperceptions we found do not appear in data on elites' perceptions of public opinion others gathered in 1958, 1992, and 2000—although these earlier studies have significant limitations. Although these historical data are more difficult to interpret, it is reassuring that in historical periods when this mechanism did not appear to operate, its potential consequences do not appear present.<sup>33</sup> In addition, Online Appendix H shows suggestive evidence that in districts and in states where we estimate that the Republican-leaning partisan imbalance in self-reported contacting of legislators is greater, we find that politicians' overestimation of conservatism is also greater.<sup>34</sup>

With this said, as with all studies of causal mechanisms, this evidence must be regarded as tentative. First, to be clear, our claim is not that contacts to legislative or campaign offices alone likely explain all of politicians' biased perceptions of public opinion. Rather, we see these questions about contacting behavior as diagnostic of the broader set of activities intended to shape politicians' information environments. Unfortunately, we are not aware of any data on who contacts or otherwise interacts with state legislative politicians, and so we cannot test this argument at the

<sup>33</sup> However, it does appear that there are several "intercept shifts" in how elites perceive opinion during these surveys, consistent with our broader theoretical argument that systematic misperceptions are possible.

<sup>34</sup> Another potential empirical implication of the control of the contr

individual level for our elite respondents to examine whether those respondents whose constituencies display this tendency to a greater extent also have the greatest misperceptions. This would represent an ambitious data gathering exercise, and we would urge future research to conduct it. At the very least, our research suggests the discipline's surveys should include these questions more regularly. With that said, these patterns are consistent with our broader theory that contemporary American politicians—especially Republicans—work in information environments where conservative views are overrepresented.

#### DISCUSSION

On a broad set of controversial issues in contemporary American politics, US state political elites in 2012 and 2014 believed that much more of the public in their constituencies preferred conservative policies than actually did. This pattern was present in two surveys of state legislators and candidates. Elites' partisanship was by far the most important determinant for the (in)accuracy of their perceptions: Republicans were prone to severely overestimating support for conservative positions. Democrats' perceptions also typically overestimated the public's support for conservative positions, although by less, suggesting our findings cannot be attributed to motivated reasoning by Republicans alone. These findings suggest that misperceptions of public opinion may be an important dynamic that contributes to dynamics such as asymmetric polarization, pushing Republicans to the right and discouraging Democrats from making a similarly strong move leftward.

Theoretically, we argued that the presence of such large, systematic biases in politicians' perceptions of their geographic constituencies were possible and could contribute to significant biases in democratic representation. Several further testable implications of our argument also find support in our data and others'. First, one implication of our argument is that relatively simple informational interventions would lead to legislative outcomes that are more congruent with public opinion. Indeed, in an ingenious experiment, Butler and Nickerson (2011) find that providing legislators with information about public opinion in their districts causes them to cast more votes that are congruent with their district's median voter. Further field experiments of this type are a natural next step for testing our theory. Our distinctive claim that politicians' errors need not be symmetric and random would predict, at least in 2012 and 2014, that treatment effects in such experiments among Republicans in the US should be especially large-exactly as Butler and Nickerson (2011) find. Further consistent with this expectation, although the observational nature of our data prohibits us from drawing firm causal conclusions, we also find that the politicians with the most severe overestimation of conservatism told us they took the most extremely conservative positions (see Table A2). A final testable implication of our empirical findings about the

Another potential empirical implication of this mechanism is that elected officials, who receive more contact from the public, would overestimate conservatism especially. Although we see contact as a proxy for a broader suite of participatory behavior in the public sphere that could affect perceptions held by both elected officials and candidates alike, we find some support for this hypothesis. It is the case that politicians are more accurate in general than candidates, although we are not sure how to interpret this difference because politicians and candidates differ in a host of preexisting ways, including that they have been selected to some extent on the basis of their ability to perceive what a constituency wants and are likely quality. With this said, we exploit the fact that our data on how patterns of contacting politicians show an interaction of mass and elite party (i.e., that Republican citizens contact Republican politicians especially often). As a result, we would predict a difference in the difference between the accuracy of candidates and officeholders for Republicans and for Democrats. When we tested this prediction, we found evidence for it. Specifically, running a regression of how much each respondent overestimates conservatism on an indicator for holding office, an indicator for party, their interaction, and the same controls as in Figure 6 reveals a significant interaction, such that Republicans who hold office on average overestimate conservatism by 2.8 percentage points more than one would expect (t = 2.02, p < 0.05). That is, Republicans who hold office actually overestimate conservatism by more than one would expect, which would be consistent with Republicans who hold office being subject to particularly strong asymmetric contact from conservative constituents.

contemporary US are that Republican politicians should be more likely to ideologically "overreach," facing larger penalties in general elections for being more extreme, as we expect they are more likely to misperceive the median voter's preferences and thus be more distant from the median to begin with.<sup>35</sup> In a recent article, Hall (2015) finds exactly this heterogeneity in the effects of additional ideological extremism by party (see Hall 2015, Table A.4).

Hall's (2015) result also suggests our findings about partisan differences are unlikely to be driven entirely by Republican politicians having private information about "real" opinion not reflected in public opinion surveys, as it appears Republicans are losing votes for taking the increasingly conservative positions they are. Our finding that Democrats and Republicans perceive the same districts differently further reinforces this point; if two politicians perceive the same district differently, then they cannot both be right. With this said, electoral incentives are clearly more complex than the simple median voter theorem would imply. More generally, as with any single study, we do not pretend that ours can definitively explain a complex phenomenon like asymmetric polarization in its totality. Rather, our evidence joins other work that tests predictions of significant theories of polarization (e.g., Grossmann and Hopkins 2016; Noel 2012; Thomsen 2014), which can comfortably coexist with and complement our own.

Our findings should open up new research agendas with the potential to deepen our understanding of democratic representation and competition in a variety of ways. For example, our findings that politicians misperceive public opinion could also prove relevant to understanding why politicians appear differentially responsive to different groups within the public. Considerable evidence suggests that American lawmakers are differentially responsive to different groups in the population, including to those high in income (Bartels 2008; Gilens 2012; Gilens and Page 2014; Lax, Phillips, and Zelizer 2017), copartisans, and primary voters (Hill 2017; Kastellec et al. 2015). Politicians behave as if these subconstituencies and other issue publics exist (Fenno 1977), and a natural next step for future research would be to measure how politicians perceive the size and composition of such groups. To what extent do legislators consciously respond only to certain parts of their constituencies, or to what extent do they try to represent everyone equally but perceive their district in a biased way?<sup>36</sup> Future work can and should build on ours to answer these questions, which recent advances in estimation of public opinion among subconstituencies should facilitate (Caughey and Warshaw 2015; Kastellec et al. 2015; Lax, Phillips, and Zelizer 2017). Future work should also expand the number and type of issues examined, especially to consider more

More broadly, reviving a once-widespread interest in how politicians perceive public opinion, our results should also open up a research agenda into better understanding what gives rise to these misperceptions. One possibility our data suggest is that these misperceptions originate from patterns of mass participation in the public sphere; consistent with this, Online Appendix H shows suggestive evidence that politicians overestimated conservatism the most in districts where Republicans were especially likely to contact legislators. However, other dynamics may reinforce these misperceptions as well. For example, party activists are not equally polarized in both parties: Republican party activists harbor more consistently conservative views than do Democratic activists harbor consistently liberal views (Grossmann and Hopkins 2015, 2016; Layman et al. 2010; Lelkes and Sniderman 2016). If politicians look to copartisans to form their perceptions of their districts, then Republican politicians are thus likely to come in contact with an especially polarized group of voters relative to Democrats, potentially distorting Republicans' views of public opinion more generally. Another possibility future research could address is whether politicians more accurately perceive the public at the level of symbolic instead of operational ideology (Grossmann and Hopkins 2016). It also remains to be seen whether "thermostatic" (Wlezien 1995) responses to unified Republican government under Donald Trump will shift patterns in public participation in a manner that might shift politicians' perceptions of the public, especially on issues where liberals are most vocal—a possibility we readily allow and that could provide additional tests of our theory that mass participation influences politicians' perceptions. We do not expect that the conservative bias we observed in 2012 and 2014 to be a permanent feature of politics (and indeed we show in Online Appendix I that these same misperceptions do not appear to have been present in earlier eras, when, potentially relatedly, Democratic and Republican citizens contacted politicians at similar rates; see Table A1).

This article should also encourage research that seeks to understand the consequences of these misperceptions. Table A2 shows, unsurprisingly, that even within party politicians who misperceive the public as more conservative by a greater amount are also more conservative in their positions. However, the direction of causality here is obviously unclear. With this said, it is clear how our findings may contribute to a phenomenon like asymmetric polarization, which has produced patterns like one Ahler and Broockman (forthcoming) document: On average, Democratic politicians are much more likely to vote congruently with constituent opinion than are Republicans. How these misperceptions will influence policy outcomes is

economic issues. It should also seek to query these perceptions at the Congressional level, if possible. Members of Congress may well be different due to their differing resources and incentives. Although the presence of asymmetric misperceptions in state legislatures with high professionalism is encouraging, data on Congresspeople themselves would clearly be welcome.

 $<sup>\</sup>overline{^{35}}$  This logic follows from the typical assumption of quadratic utility loss in spatial voting models.

<sup>&</sup>lt;sup>36</sup> For example, one pattern that could drive our findings is if politicians are more likely to bring copartisans to mind when they think about their district as a whole (Miler 2010).

less clear, as politicians are embedded in institutions that constrain their behavior. For example, Hall (2015) finds that when Republican candidates for office take positions farther to the right, policy actually moves *left* as a consequence, because Democrats become so much more likely to win office instead. In some cases, it could even be that elites' conservative misperceptions actually undermine conservative policy goals. Of course, these misperceptions may also contribute to the conservative bias that exists in state policymaking in some domains.<sup>37</sup>

In terms of immediate implications for theories of democratic representation, our findings present a mixed verdict. On the one hand, we found very strong responsiveness of politicians' perceptions of public opinion to the reality of that opinion (e.g., Erikson, MacKuen, and Stimson 2002)—much stronger than Miller and Stokes (1963). When comparing two districts with differing levels of support for a policy, it is usually the case that the politicians in the more supportive district perceive higher levels of district support than do politicians in the less supportive district.

At the same time, our findings vividly illustrate how this strong responsiveness to public opinion can belie imperfect congruence with it (Achen 1978; Lax and Phillips 2012). Although the correlation between opinion and perception of opinion is strong, we found that it is frequently offset by an "intercept shift" that leads politicians to misperceive opinion across the board, sometimes dramatically. The result is that policies with majority support in a majority of districts are often seen as having that majority support by only a minority of legislators. These patterns of strong responsiveness yet imperfect congruence are consistent with a more nuanced understanding of how opinion translates into policy than the simple extremes that politicians care only about public opinion or care about it not at all (Lax and Phillips 2012).

With this said, to the extent our findings are relevant to understanding why politicians do not always represent their constituents perfectly, a degree of optimism seems warranted. Politicians' incentives are difficult to change, but their information environments are demonstrably malleable (Bendor and Bullock 2008; Butler and Nickerson 2011). For example, field experiments find that even a few phone calls or emails from constituents can change legislators' votes (Bergan 2009; Bergan and Cole 2015). This suggests that any biases in representation that may result from misperceptions of public opinion could be feasible to correct.

Further observation of what happens when politicians are confronted with more reliable information on public opinion (e.g., Butler and Nickerson 2011) could thus prove both substantively impactful and theoretically illuminating.

### **SUPPLEMENTARY MATERIAL**

To view supplementary material for this article, please visit https://doi.org/10.1017/S0003055418000011.

Replication materials can be found on Dataverse at: https://doi.org/10.7910/DVN/DQZXQB.

#### REFERENCES

- Achen, Christopher H. 1977. "Measuring Representation: Perils of the Correlation Coefficient." American Journal of Political Science 21: 805–15.
- Achen, Christopher H. 1978. "Measuring Representation." *American Journal of Political Science* 22: 475–510.
- Achen, Christopher H., and Larry M. Bartels. 2016. *Democracy for Realists: Why Elections Do Not Produce Responsive Government*. Princeton, NJ: Princeton University Press.
- Ahler, Douglas J., and David E. Broockman. Forthcoming. "The Delegate Paradox: Why Polarized Politicians Can Represent Citizens Best." *Journal of Politics*. https://papers.ssrn.com/sol3/papers.cfm? abstract\_id=2958017.
- Ansolabehere, Stephen, and Brian Schaffner. 2015. "CCES Common Content, 2014." Computer file. https://doi.org/10.7910/DVN/XFXJVY.
- Arnold, R. Douglas. 1990. *The Logic of Congressional Action*. New Haven, CT: Yale University Press.
- Bartels, Larry M. 2008. Unequal Democracy. Princeton, NJ: Princeton University Press.
- Bawn, Kathleen, Martin Cohen, David Karol, Seth Masket, Hans Noel, and John Zaller. 2012. "A Theory of Political Parties: Groups, Policy Demands and Nominations in American Politics." Perspectives on Politics 10 (3): 571–97.
- Bendor, Jonathan, and John G. Bullock. 2008. "Lethal Incompetence: Voters, Officials, and Systems." *Critical Review* 20 (1-2): 1–23.
- Bergan, Daniel E. 2009. "Does Grassroots Lobbying Work? A Field Experiment Measuring the Effects of an Email Lobbying Campaign on Legislative Behavior." *American Politics Research* 37: 327–52.
- Bergan, Daniel E., and Richard T. Cole. 2015. "Call Your Legislator: A Field Experimental Study of the Impact of Citizen Contacts on Legislative Voting." *Political Behavior* 37 (1): 27–42.
- Berinsky, Adam J., and Gabriel S. Lenz. 2014. "Red Scare? Revisiting Joe McCarthy's Influence on 1950s Elections." *Public Opinion Quarterly* 78 (2): 369–91.
- Blee, Kathleen M., and Kimberly A. Creasap. 2010. "Conservative and Right-Wing Movements." Annual Review of Sociology 36: 269–86.
- Broockman, David E., and Timothy J. Ryan. 2016. "Preaching to the Choir: Americans Prefer Communicating to Copartisan Elected Officials." *American Journal of Political Science* 60 (4): 1093–107.
- Butler, Daniel M., and Adam Dynes. 2016. "How Politicians Discount the Opinions of Constituents with Whom They Disagree." American Journal of Political Science 60 (4): 975–89.
- Butler, Daniel M., and David W. Nickerson. 2011. "Can Learning Constituency Opinion Affect How Legislators Vote? Results from a Field Experiment." *Quarterly Journal of Political Science* 6: 55–83.
- Caughey, Devin, and Christopher Warshaw. 2015. "Dynamic Estimation of Latent Opinion Using a Hierarchical Group-Level IRT Model." *Political Analysis* 23 (2): 197–211.
- Caughey, Devin, and Christopher Warshaw. Forthcoming. "Policy Preferences and Policy Change: Dynamic Responsiveness in the American States, 1936–2014." American Political Science Review.

<sup>&</sup>lt;sup>37</sup> On issues of gay rights, for example, when it comes to state policies, "most noncongruence is in the conservative direction" (Lax and Phillips 2009a, 383). The same conservative bias operates on votes on gay rights legislation in Congress, where "74 percent of [incongruent] votes are incongruent in a conservative direction" (Krimmel, Lax, and Phillips 2016). Whether these conservative biases are typically present in other domains is less clear. On the issues they examine, Lax and Phillips (2012) find that policies are somewhat more likely to be incongruent in a conservative than a liberal direction on average but that the best characterization of the evidence is that liberal states are more likely to be incongruent in a liberal direction and conservative states incongruent in a conservative direction.

- Downs, Anthony. 1957. An Economic Theory of Democracy. New York: Harper & Row.
- Druckman, James N., and Lawrence R. Jacobs. 2006. "Lumpers and Splitters: The Public Opinion Information that Politicians Collect and Use." Public Opinion Quarterly 70 (4): 453.
- Eggers, Andrew C., and Benjamin E. Lauderdale. 2016. "Simulating Counterfactual Representation." Political Analysis 24 (2): 281-
- Ellis, Christopher, and James A. Stimson. 2012. *Ideology in America*. Cambridge: Cambridge University Press.
- Enos, Ryan D., and Eitan D. Hersh. 2017. "Campaign Perceptions of Electoral Closeness: Uncertainty, Fear and Over-Confidence." British Journal of Political Science 47 (3): 501-19.
- Erikson, Robert S. 2013. Policy Responsiveness to Public Opinion. Oxford: Oxford University Press.
- Erikson, Robert S., Michael B. MacKuen, and James A. Stimson. 2002. The Macro Polity. Cambridge: Cambridge University Press. Fang, Lee. 2013. The Machine: A Field Guide to the Resurgent Right. NewYork: The New Press.
- Fenno, Richard F. 1977. "U.S. House Members in Their Constituencies: An Exploration." American Political Science Review 71 (3):
- Fiorina, Morris P., and Matthew S. Levendusky. 2006. Disconnected: The Political Class versus the People. Red and Blue Nation? Characteristics, Causes, and Consequences of America's Polarized Politics. Washington, D.C.: Brookings Institution Press, 49-71.
- Gilens, Martin. 2012. Affluence and Influence: Economic Inequality and Political Power in America. Princeton, NJ: Princeton University Press.
- Gilens, Martin, and Benjamin I. Page. 2014. "Testing Theories of American Politics: Elites, Interest Groups, and Average Citizens." Perspectives on Politics 12 (3): 564-81.
- Goss, Kristin A. 2008. Disarmed: The Missing Movement for Gun Control in America. Princeton, NJ: Princeton University Press.
- Grossmann, Matt, and David A. Hopkins. 2015. "Ideological Republicans and Group Interest Democrats: The Asymmetry of American Party Politics." Perspectives on Politics 13 (1): 119-39.
- Grossmann, Matt, and David A. Hopkins. 2016. Asymmetric Politics: Ideological Republicans and Group Interest Democrats. Oxford: Oxford University Press
- Hacker, Jacob S., and Paul Pierson. 2005. Off Center: The Republican Revolution and the Erosion of American Democracy. New Haven, CT: Yale University Press.
- Hacker, Jacob S., and Paul Pierson. 2015. Confronting Asymmetric Polarization. In Solutions to Political Polarization in America. Cambridge: Cambridge University Press. Hall, Andrew B. 2015. "What Happens When Extremists Win Pri-
- maries?" American Political Science Review 109 (1): 18-42.
- Hall, Andrew B., and James M. Snyder. 2015. "Candidate Ideology and Electoral Success" working paper).
- Hanretty, Chris, Benjamin E. Lauderdale, and Nick Vivyan. 2016. "Comparing Strategies for Estimating Constituency Opinion from National Survey Samples." Political Science Research and Methods
- Hedlund, Ronald D., and H. Paul Friesema. 1972. "Representatives" Perceptions of Constituency Opinion." Journal of Politics 34 (3): 730-52.
- Henderson, John, and John Brooks. 2016. "Mediating the Electoral Connection: The Information Effects of Voter Signals on Legislative Behavior." The Journal of Politics 78 (3): 653-69.
- Hill, Seth J. 2017. "Representation of Primary Electorates in Congressional Roll Call Votes" (working paper). http://www.sethjhill. com/SJH\_PrimariesRollCalls.pdf.
- Jacobs, Lawrence R., and Robert Y. Shapiro. 1995. "The Rise of Presidential Polling the Nixon White House in Historical Perspective." Public Opinion Quarterly 59 (2): 163–95.

  Jacobson, Gary C. 2013. "How the Economy and Partisanship
- Shaped the 2012 Presidential and Congressional Elections." Political Science Quarterly 128 (1): 1–38.
- Kastellec, Jonathan, Jeffrey R. Lax, Michael Malecki, and Justin H. Phillips. 2015. "Polarizing the Electoral Connection: Partisan Representation in Supreme Court Confirmation Politics." Journal of Politics 77 (3): 787-804.
- Kingdon, John W. 1967. "Politicians' Beliefs about Voters." American Political Science Review 61 (1): 137-45.

- Krimmel, Katherine, Jeffrey R. Lax, and Justin H. Phillips. 2016. "Gay Rights in Congress: Public Opinion and (Mis) Representation.' Public Opinion Quarterly 80 (4): 888-913.
- Kuklinski, James H., and Richard C. Elling. 1977. "Representation Role, Constituency Opinion, and Legislative Roll-Call Behavior." American Journal of Political Science 21 (1): 135-47.
- Lax, Jeffrey R., and Justin H. Phillips. 2009a. "Gay Rights in the States: Public Opinion and Policy Responsiveness." American Political Science Review 103 (3): 367-85.
- Lax, Jeffrey R., and Justin H. Phillips. 2009b. "How Should We Estimate Public Opinion in the States?" American Journal of Political Science 53 (1): 107-21.
- Lax, Jeffrey R., and Justin H. Phillips. 2012. "The Democratic Deficit in the States." American Journal of Political Science 56 (1): 148-
- Lax, Jeffrey R., Justin H. Phillips, and Adam Zelizer. 2017. "The Party or the Purse? Unequal Representation in the U.S. Senate." http://www.columbia.edu/~jrl2124/partypurse.pdf. Accessed March 4 2018.
- Layman, Geoffrey C., Thomas M. Carsey, John C. Green, Richard Herrera, and Rosalyn Cooperman. 2010. "Activists and Conflict Extension in American Party Politics." American Political Science Review 104 (02): 324-46.
- Lelkes, Yphtach, and Paul M. Sniderman. 2016. "The Ideological Asymmetry of the American Party System." British Journal of Political Science 46 (4): 825-44.
- MacGuffie, Robert. 2009. "Rocking the Town Halls-Best Practices." http://d35brb9zkkbdsd.cloudfront.net/wp-content/uploads/ 2009/07/townhallactionmemo.pdf.
- Mann, Thomas E., and Norman J. Ornstein. 2013. It's Even Worse Than It Looks: How the American Constitutional System Collided with the New Politics of Extremism. New York: Basic Books.
- McCarty, Nolan. 2015. "What We Know and Do Not Know about Our Polarized Politics." In Political Polarization in American Politics, eds. Daniel J. Hopkins and John Sides. London: Bloomsbury.
- McCarty, Nolan, Keith T. Poole, and Howard Rosenthal. 2006. Polarized America: The Dance of Ideology and Unequal Riches. Cambridge, MA: MIT Press.
- Miler, Kristina C.2010. Constituency Representation in Congress: The View from Capitol Hill. Cambridge: Cambridge University Press.
- Miller, Warren E., and Donald W. Stokes. 1963. "Constituency Influence in Congress." American Political Science Review 57: 45-56.
- Noel, Hans. 2012. "The Coalition Merchants: The Ideological Roots of the Civil Rights Realignment." Journal of Politics 74 (1): 156-73.
- Park, David K., Andrew Gelman, and Joseph Bafumi. 2004. "Bayesian Multilevel Estimation with Poststratification: State-Level Estimates from National Polls." Political Analysis 12 (4):
- Parker, Kim, Juliana Horowitz, Ruth Igielnik, Baxter Oliphant, and Anna Brown. 2017. "America's Complex Relationship with Guns." Pew Research Center Report.
- Schlozman, Kay Lehman, Sidney Verba, and Henry Brady. 2012. The Unheavenly Chorus: Unequal Political Voice and the Broken Promise of American Democracy. Princeton, NJ: Princeton Uni-
- Shor, Boris. 2015. "Polarization in American State Legislatures." In American Gridlock: The Sources, Character, and Impact of Political Polarization, eds. James A. Thurber and Antoine Yoshinaka. Cambridge: Cambridge University Press.
- Skocpol, Theda, and Alexander Hertel-Fernandez. 2016. "The Koch Network and Republican Party Extremism." Perspectives on Politics 14 (3): 681-99.
- Skocpol, Theda, and Vanessa Williamson. 2011. The Tea Party and the Remaking of Republican Conservatism. Oxford: Oxford University
- Squire, Peverill. 2007. "Measuring State Legislative Professionalism: The Squire Index Revisited." State Politics and Policy Quarterly 7 (2): 211-27.
- Tausanovitch, Chris, and Christopher Warshaw. 2014. "Representation in Municipal Government." American Political Science Review 108 (3): 605-41.
- Theriault, Sean M. 2006. "Party Polarization in the US Congress." Party Politics 12 (4): 483-503.
- Theriault, Sean M. 2013. The Gingrich Senators. Oxford: Oxford University Press.

- Thomsen, Danielle M. 2014. "Ideological Moderates Won't Run: How Party Fit Matters for Partisan Polarization in Congress." *Journal of Politics* 76 (3): 786–97.
- Tversky, Amos, and Daniel Kahneman. 1973. "Availability: A Heuristic for Judging Frequency and Probability." *Cognitive Psychology* 5 (2): 207–32.
- Uslaner, Eric M., and Ronald E. Weber. 1979. "U.S. State Legislators' Opinions and Perceptions of Constituency Attitudes." *Legislative Studies Quarterly* 4 (4): 563–85.
- Warshaw, Christopher, and Jonathan Rodden. 2012. "How Should We Measure District-Level Public Opinion on Individual Issues?" *Journal of Politics* 74 (1): 203–19. Weissberg, Robert. 1978. "Collective vs. Dyadic Representation
- Weissberg, Robert. 1978. "Collective vs. Dyadic Representation in Congress." *American Political Science Review* 72 (2): 535–47.
- Wlezien, Christopher. 1995. "The Public as Thermostat: Dynamics of Preferences for Spending." *American Journal of Political Science* 39 (4): 981–1000.