### City Limits to Partisan Polarization in the American Public<sup>1</sup>

Amalie Jensen Princeton University ajensen@princeton.edu

Kenneth Scheve Stanford University scheve@stanford.edu William Marble Stanford University wpmarble@stanford.edu

Matthew J. Slaughter
Tuck School of Business
matthew.j.slaughter@tuck.dartmouth.edu

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#### Abstract

How pervasive is partisan sorting and polarization over public policies in the American public? We examine whether the patterns of partisan sorting and polarization documented for national issues extend to a wide range of important local public policies that shape economic development. Employing conjoint survey experiments in representative surveys for eight U.S. metropolitan areas and a hierarchical modeling strategy for studying heterogeneity across respondents, we estimate the extent of partisan sorting and polarization over local development policies. We find that strong partisans are not highly sorted by party, much less polarized, in many of their policy opinions. The same voters who disagree about national issues have similar preferences about local development issues. We argue that this is largely a result of competitive pressures among local governments that limit disagreements about what works to improve policy outcomes and the lower salience of partisan cues about these issues.

#### 1 Introduction

How pervasive is partisan sorting and polarization over public policies in the American public? An extensive literature has established that voters have become more consistently sorted in terms of individuals with conservative policy positions on national issues being more likely to identify as Republican partisans and those with more liberal policy positions being more likely to identify as Democratic partisans (Abramowitz 2010, Fiorina, Abrams & Pope 2005, Fiorina & Abrams 2008, Levendusky 2009). Some scholars have argued that the extent of partisan sorting has resulted in a population with also more polarized national policy preferences (Abramowitz 2010) while others have argued that this reorganization of preferences has had little impact on the overall extent to which policy preferences are polarized (Fiorina & Abrams 2008).

Regardless of the extent of polarization, sorting alone is commonly hypothesized to be a barrier to solving national public policy problems. Rather than each policy option having its own distribution of supporters and opposition and therefore a possibility of cross-cutting cleavages across issues, sorted partisans have consistently opposing views about how to solve social challenges. This sorting of policy preferences is thought not only to reduce the scope for compromise across issues but also may strengthen affective ties to partisan identities which in turn makes bipartisan problem-solving less likely (Abramowitz 2006, Brader, Tucker & Therriault 2014, Jacobson 2003, Mason 2015, Gerber, Henry & Lubell 2013).

In this paper, we examine whether the patterns of partisan sorting and polarization documented for national issues extend to a wide range of important local public policies that shape economic development. Do local development policy preferences — e.g. policies designed to attract businesses, policies that educate and train local workers, policies that provide local services, etc. — vary by political partisanship and if so, do partisans have opposing and therefore polarized positions?

Evaluating partisan sorting and polarization over local public policies is important for at least two reasons. First, it provides a new lens for understanding partisan conflict and its effect on solving public policy problems. To the extent that localities compete with each other to retain firms and high income residents, we might expect policy preferences on local policies to be constrained and more similar across partisans than national policies. Similarly, to the extent that national media sources primarily provide individuals with information about what policy preferences are associated with alternative political parties for national problems, we would again expect more similar policy opinions across partisans for local issues where such information is less available. Studying local public policies can be viewed as evaluating whether partisan identities are pliable enough to be overcome in order to solve problems when voters are faced with alternative incentives and information.

Second, there is a great deal at stake in local development policymaking in the United States. Where Americans live is a major determinant of their economic opportunities. Globalization, technological change, and other trends that have generated inequality and poor absolute labor market outcomes for many workers have also made economic growth more geographically concentrated with some communities faring much better than others. A central problem faced by local governments is how to stimulate economic development amidst technological change and international competition. It is therefore important to gain a better understanding of citizen preferences over local development strategies and the potential overlap between policies that are economically productive and politically feasible.<sup>1</sup>

We study policy opinions in eight major U.S. Metropolitan Statistical Areas (MSAs): Charlotte, Cleveland, Houston, Indianapolis, Memphis, Rochester, Seattle, and St. Louis. Our analysis is based on a 2018 YouGov survey representative of adult residents in each MSA.<sup>2</sup> We report the results of identical conjoint survey experiments that task respondents with choosing multiple times between alternative local development plans. Each plan proposed a policy alternative for six different dimensions of local development policymaking: Investment and Taxes, Workers and Entrepreneurs, Local Services, Governance, Education

<sup>&</sup>lt;sup>1</sup>Economists have historically been skeptical about place-based policies for facilitating economic development, but many think there might be a case for them now (Austin, Glaeser & Summers 2018).

<sup>&</sup>lt;sup>2</sup>The data were originally produced by bgC3. They have allowed us to use the data and to make it publicly available upon publication of this paper.

and Higher Education.

We present two main sets of results. The initial estimates report the average component-specific effect (AMCE) from the conjoint experiment (Hainmueller, Hopkins & Yamamoto 2014), pooled and for each city individually. We present evidence that free pre-school, paying teachers more, investing in community colleges, spending on local colleges and universities, creating technical vocational programs, spending more on student grant programs, using tax and investment incentives to attract new businesses and stimulate existing companies, investing in affordable housing, and spending more on public safety and crime prevention are all policies preferred to the status quo while policies that either expand or limit union power and increase investments in charter schools are less preferred than status quo policies. Although there is some heterogeneity in these preferences across MSAs, this broad pattern generally holds across most of the cities.

For purposes of examining partisan sorting and polarization, we estimate conditional average marginal component effects (CAMCE) for Strong Democrats and Strong Republicans to investigate the extent of heterogeneity in the AMCE estimates across partisans in our sample. We focus on strong partisans because we would expect the greatest partisan sorting among these respondents.<sup>3</sup> In the context of our conjoint experiment, we define sorting as Democrats and Republicans having different CAMCEs — relative to a status quo alternative — for a given policy issue, and polarization as Democrats and Republicans having CAMCEs of opposite signs. The sorting definition is straightforward in that if Democrats and Republicans have different policy preferences, we expect different policy attributes to have a different effect on their probability of choosing a development plan relative to the status quo. The polarization definition is useful in that it distinguishes between policies for which Democrats and Republicans simply have differential support and those for which a policy option has opposing effects on the probability that each group supports a development plan.<sup>4</sup>

<sup>&</sup>lt;sup>3</sup>We report results for all Democratic and Republican identifiers in the Appendix.

<sup>&</sup>lt;sup>4</sup>The literature has typically defined sorting as Democrats having consistently more liberal policy views than Republicans, and polarization as extremity of these opinions. Our definitions are slightly different, but we believe are informative given the conjoint measurement tool that we use. We do not know of other

We implement two approaches for estimating the CAMCEs for Strong Democrats and Strong Republicans. First, as in Hainmueller, Hopkins & Yamamoto (2014), we estimate the same OLS regression for estimating the AMCE for the subsamples of interest, in our case Strong Democrats and Strong Republicans separately. This split-sample approach yields point estimates and confidence intervals of the CAMCEs for each group. This average estimate is informative for our key substantive questions about the extent of partisan sorting and polarization over local issues. Second, we employ a hierarchical model to estimate CAMCEs for each individual in the sample conditioned not only on their partisanship but a full profile of observed individual characteristics. This analysis complements the first by allowing us to investigate systematic heterogeneity across partisans "controlling for" potential confounding observed variables. Additionally, it allows us to estimate and visualize individual-level marginal component effects, allowing us to investigate not just the average opinion, but also population-level variance in opinions.

We find that even among strong partisans there are many areas of local development policymaking for which Democrats and Republicans have very similar policy preferences. Relative to status quo policies, the effect of using tax and investment incentives to attract new businesses and stimulate existing companies, encouraging investments by charities, whether to consolidate local governments, whether policy autonomy to local governments relative to the state should be reduced, increasing spending on community colleges, and increasing spending on vocational and technical training on preferred policy bundles is quite similar for Strong Democrats and Strong Republicans. There is essentially no evidence of sorting for these local policy areas. Moreover, Strong Democrats and Strong Republicans do not have contrasting preferences — in the sense that the effect of a policy alternative to the status quo makes one partisan group more likely to choose a policy bundle while making the other group less likely to do so — for increasing spending on public safety, expanding student grant programs, paying teachers more, and limiting union power. For these issues, there is research that explicitly defines sorting and polarization in the context of conjoint survey experiments.

some evidence of sorting in the sense of one partisan group having strong preferences for or against these policy options but no evidence of polarization understood as these policy options having opposing effects. Only a few education and labor issues including school vouchers, charter schools, free pre-school, vouchers for worker training, and expanding union power have clearly sorted and polarized effects for Strong Democrats and Strong Republicans.

The paper makes two contributions. First, partisan sorting and polarization is not as pervasive in American political behavior as is often asserted. Existing empirical research on partisan sorting and polarization is largely based on national policy issues and our study provides new evidence on local policies. Research on partisanship in local politics has focused on determining the impact of partisan control of local government on public policy outcomes. Recent studies come to somewhat mixed conclusions. Ferreira & Gyourko (2009), employing a regression discontinuity design analysis, find that the partisanship of mayors has no impact on the size of city government and other outcomes. Gerber & Hopkins (2011) also find a limited impact of the partisanship of mayors on policy outcomes with the exception of the share of the budget spent on public safety, a policy where Democratic mayors spend less and cities have greater discretion than in other policy areas. de Benedictis-Kessner & Warshaw (2016), however, examining a larger set of elections and outcomes, find significant partisan effects with Democratic mayors spending more and issuing greater debt to do so.

This research is important, but regardless of whether mayoral partisanship has an effect on policy outcomes or not, it remains unclear whether citizens themselves have different local policy preferences. We could observe or not observe an effect of mayoral partisanship under polarized or not polarized local public opinion if special interests, the policy preferences of mayors, competitive constraints on policy, or other considerations influence outcomes. The literature on policy outcomes often proposes electoral control as an explanation for partisan differences, but direct evidence of divergent partisan preferences is limited. An important exception in this literature is Tausanovitch & Warshaw (2014)'s excellent analysis of the correspondence between local public conservatism and local policy. But as they note, their

measurement approach relies on the assumption that policy opinions on local issues are not distinct from those on national issues. This may be plausible for their purpose of measuring overall policy conservatism, but is exactly what we examine empirically in order to assess how deep partisan sorting and polarization is in the American public.

Our evidence suggests only modest levels of partisan sorting and polarization over local development issues. This may be good news for not only the capacity of cities to develop bipartisan solutions to local development challenges but also for the potential for partisans to update their policy opinions in response to incentives and information about effective public policy.<sup>5</sup>

Second, our paper contributes to the local political economy literature. A number of studies have documented that since 1980, the convergence across regions in economic development that had characterized most of American history slowed if not reversed itself (Berry & Glaeser 2005, Ganong & Shoag 2017). The economics of agglomeration have led to self-enforcing equilibria in which productive firms and high-human capital individuals find it in their interest to locate in cities with other productive firms and workers. Slowing convergence has made the politics of local economic development more pressing than ever before. Our study provides the first extensive, comparable cross-city evidence of what policies individual voters prefer to create economic development in their cities and how those preferences relate to partisan political conflict.

The paper proceeds as follows. The next section discusses the forces that might lead to more or less partisan sorting and polarization over the policies designed to improve local economic outcomes. Section III describes the data and conjoint survey experiment from eight metropolitan areas that we use to measure local development policy opinions. This section also reports the estimates for the AMCE across all eight MSAs pooled and each MSA individually. Section IV investigates how AMCEs vary by partisanship by presenting split-

<sup>&</sup>lt;sup>5</sup>Rugh & Trounstine (2011) report that strategic politicians in diverse cities use issue bundling to develop broad coalitions for municipal bonds. Our findings suggest that there are similar opportunities to build bipartisan coalitions in local politics.

sample estimates of the conditional average marginal component effects for Strong Democrats and Strong Republicans. Section V presents a hierarchical modeling strategy for estimating CAMCEs and presents these estimates which allow us to investigate partisan differences "controlling for" other observed individual characteristics of respondents. The final section concludes with a discussion of the implications of the results for understanding partisanship and the politics of local economic development.

#### 2 Partisan Polarization in Local Politics

The objective of this paper is to answer the question of whether local development policy preferences — e.g. policies designed to attract businesses, policies that educate and train local workers, etc. — vary by political partisanship. In this section, we first show that partisans in the eight metropolitan areas considered in this study, like the American electorate more generally, have substantially different preferences about national policy issues. It is not the case that the tendency for more liberal voters to sort into urban areas eliminates partisan differences over national issues. We then outline hypotheses for why partisan polarization in local policy preferences might differ from what we see on national issues. We argue that the same voters who disagree greatly about national issues have fairly similar preferences about many local development issues because competitive pressures among local governments limit disagreements about what works to improve public policy outcomes and partisan cues about these issues are much less salient.

In considering the question of how much partisan sorting and polarization that we should expect to observe about local political issues, it is essential to consider the possibility that voters living in cities do not exhibit the same partisan cleavages as the country more generally, even for national issues. If, for example, Republicans who choose to live in cities are more liberal than other Republicans, we might expect few partisan differences about both national and local policy issues simply because Republicans located in cities are not that different

ideologically than Democrats.<sup>6</sup>

However, several features of our data suggest that ideological geographic sorting into the large metropolitan areas that we study is insufficient to eliminate partisan polarization. First, our analysis includes the entire metropolitan statistical area for each city and consequently a great number of suburban residents, who tend to be more conservative (Nall 2018). Additionally, a number of our MSAs are in relatively Republican states: in all but Seattle at least 24% of the respondents identify as Republicans, which is not lower than those identifying as Democrats. Second, the partisans in our cities have significantly different opinions about national policy issues. Figure 1 reports the results of an OLS regression of several national policy measures on dummy variables for partisanship, controlling for sociodemographic characteristics.<sup>7</sup> There are significant differences in policy positions for all five national issues and the differences between "Strong Democrats" and "Strong Republicans" are large in magnitude — for most issues, Strong Republicans are at least 20 percentage points more likely to express a conservative opinion, relative to Strong Democrats.

We know that voters in our MSA data are divided on national policy issues and that this divide is partly explained by party affiliation. However, is that necessarily the case for local policy issues? In the following we present two different hypotheses for why partisan sorting and polarization in preferences for local policies could be different than for national policies: competition among jurisdictions for capital and high-income residents and fewer elite cues about what policies go with which partisan orientations at the local level.

One aspect of local politics that could affect partisanship in preferences over different policies, is the fact that cities are in competition with each other. Jurisdictions compete for capital and high-income residents which could make local policy preferences across partisans

<sup>&</sup>lt;sup>6</sup>There is some debate about the extent of partisan geographic sorting, with Bishop (2008) and others suggesting that it is pervasive. On the other hand, Mummolo & Nall (2017) show that political sorting may be rarer than is often hypothesized. Similarly, Martin & Webster (2018) find that the observed level of partisan geographic sorting is not sufficient to explain geographic polarization.

<sup>&</sup>lt;sup>7</sup>For comparability, these control variables are the same as those included in the main results reported below. They include: age, race/ethnicity, sex, education, income, employment status, homeownership status, length of time living in the metro region, and MSA fixed effects.

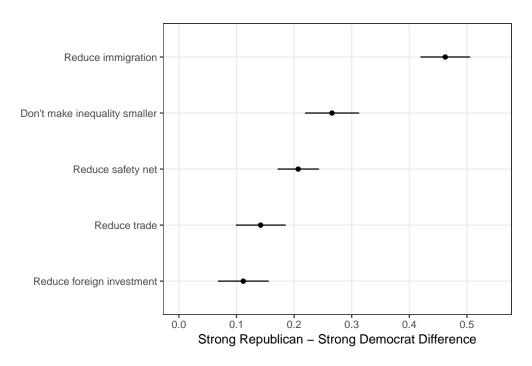


Figure 1: National Policy Opinions by Partisan Identification. This plot shows differences in opinions between strong Republicans and strong Democrats across a range of national policy issues. The estimates are based on a regression of an indicator for choosing a conservative response to each policy measure on set of dummy variables for partisanship and a number of sociodemographic characteristics. The bars indicate robust 95% confidence intervals. Across all issues, strong Republicans are at least 10 percentage points more likely to hold a conservative opinion, after controlling for other covariates.

(and across areas) converge. Peterson (1981) and others have argued that because cities compete for firms and need to attract and retain high-income residents, they will have very similar policies on many local issues. In particular, we would expect this to be relevant for policies that are salient and easy for cities to compete over and for businesses or residents to act upon, such as tax breaks. To the extent that citizens internalize these constraints, their preferred policies may not vary even if they have very different underlying ideological or partisan orientations. This is different from national policies, since mobility of capital and residents is greater across areas within a country than across countries which increases competition.

Another mechanism which could limit partisan polarization in local policy preferences is the fact that there potentially are fewer elite cues about what policies go with which partisan orientations at the local level. Hopkins (2018) and others have argued that political behavior has become increasingly nationalized. One of the factors contributing to this trend is that individuals have less local information about politics as they become increasingly reliant on national media sources. To the extent that this factor is important, we expect there to be some variation across local development issues as some aspects of local politics, like rules governing union activity, are clearly associated with party policy positions.<sup>8</sup>

Alternative hypotheses point in the opposite prediction: that partisan sorting and polarization might be relatively high for local development policies. First, many of these policies are related to left-right positions about the optimal size of government and the role of the state versus markets in organizing economic activity. To the extent that citizens have become more consistently sorted on these issues in national economic policymaking, we might expect similar positions on local issues. Second, de Benedictis-Kessner & Warshaw (2016), Gerber, Henry & Lubell (2013), and others have found significant partisan patterns in local policymaking which seem plausibly related to underlying differences in the policy preferences of voters. Additionally, Tausanovitch & Warshaw (2014) find that local policy questions load onto the same left-right dimension in an ideal point model as national issues. Hence, the question of whether there are partisan divides in preferences for local development policies is ultimately an empirical question, and the remainder of the paper evaluates these competing hypotheses about how deeply partisan polarization pervades American politics.

<sup>&</sup>lt;sup>8</sup>Another potential reason that preferences over local development policies might be different than those over national policies is if voters did not think such policies were important. Indifference might account for a lack of partisan conflict about local issues. Appendix Section B evaluates this possibility by reporting the frequency that different issues are mentioned when respondents gave open-ended answers to the prompt "What do you think are the major issues facing people in the [MSA Name] area these days?" The distribution of answers suggest unsurprisingly that voters prioritize local development issues generally and are specifically focused on the local policy issues that we will study below.

<sup>&</sup>lt;sup>9</sup>That said, the factor loadings are generally lower for municipal policy questions than for national issues — especially on local development policy such as tax incentives to businesses (p. 628) — suggesting that local preferences may be related to but distinct from national policy preferences.

#### 3 Local Development Policy Preferences

To measure public preference over local development policies, we report the results of a choice-based conjoint survey experiment that varied attributes of proposed local development plans for eight large U.S. Metropolitan Statistical Areas (MSAs): Charlotte, Cleveland, Houston, Indianapolis, Memphis, Rochester, St. Louis, and Seattle. The surveys were conducted by YouGov in January and February 2018 and are representative samples of the adult population of each MSA.<sup>10</sup> These MSAs were selected based on three main criteria: Each MSA needed to be large enough so that it was possible to construct a representative sample using YouGov's panel and matched sampling methodology; the MSAs needed to be selected from different regions of the U.S.; and the MSAs needed to vary in their economic development success over the last four decades. Given these characteristics, this set of MSAs should provide a reasonable guide to local development policy preferences across large U.S. MSAs though as we document here there are some important differences across cities within the sample and thus we would expect some variation for cities not in the sample as well.

#### 3.1 Conjoint Experiment

Consistent with our interest in how individuals think about local public policy problem solving and with recent trends in the drivers of local economic performance, the conjoint experiment is framed in terms of how the MSA should respond to globalization and technological change and implement policies that will generate economic growth and good jobs. The specific wording of the conjoint introduction is:

Now we'd like to ask you some questions about [MSA Name].

Given the impact of globalization and technological change on the [MSA Name] economy in the past and their potential impact in the future, there are lots of different ideas about the policies that [MSA Name] should adopt to generate economic growth and good jobs for its citizens. We want to know what you think.

<sup>&</sup>lt;sup>10</sup>See Appendix A for full description of sampling methodology and descriptive statistics.

We will provide you with several possible development plans to help [MSA Name] adapt to technology and globalization. Please remember that any new spending programs will require higher taxes or spending cuts to existing programs. Similarly, any tax cuts will require offsetting tax increases or spending cuts. We will always show you two possible proposals in comparison. For each comparison, please indicate which of the two plans you prefer. Please just tell us which one you like best. You may like both or not like either one. In any case, choose the one you prefer the most. In total, we will show you five comparisons.

People have different opinions about these issues, and there are no right or wrong answers. Please take your time when reading the potential plans.

Respondents were presented with pairs of hypothetical plans for local development. Each plan was composed of six attributes corresponding to six critical areas of local development policymaking: Investment & Taxes, Workers & Entrepreneurs, Local Services, Governance, Education, and Higher Education. For each issue area, a possible value was randomly drawn from an underlying set of potential values that included alternative reform or spending priorities as well as the status quo in that policy area. For example, in the Education dimension, options included Expand charter schools, Give citizens vouchers that they can use to attend different schools, Provide more children with free pre-school, Pay teachers more to attract better teachers, and Keep current elementary and secondary school policies. Table 1 lists each possible value for each dimension. Finally, it is important to keep in mind that the introduction to the conjoint experiment emphasized that increased spending would require tax increases or spending reductions in other areas.

Respondents were presented with randomly-generated pairs of potential policies for their MSA to adopt as a local development plan and were asked to choose which plan they would prefer to see implemented.<sup>11</sup> Using this style of forced-choice design, we are able to evaluate the direction and relative weight individuals place on each dimension of local development. Respondents were presented with five sets of local development plan pairs. For our analysis, we constructed a binary measure *Local Development Plan Support* that equaled one if a respondent selected a particular policy proposal as their preferred choice, and zero otherwise.

<sup>&</sup>lt;sup>11</sup>The ordering of the different policy dimensions was randomized for each respondent but was held constant within respondents for each presentation of new policy pairs.

Plan Dimension	Possible Levels
Investment and Taxes	Use tax breaks and subsidies to attract new businesses
	to the [MSA name] area
	Use tax breaks and subsidies to stimulate investment of
	existing [MSA name] companies
	Use tax breaks and subsidies to encourage investment by
	charities and philanthropies
	Keep current investment and tax policies
Workers & Entrepreneurs	Limit unions bargaining powers
	Expand unions bargaining powers
	Give training vouchers to existing workers
	Give tax breaks to entrepreneurs that start new businesses
	Keep policies toward workers and entrepreneurs
Local Services	Spend more on affordable housing
	Spend more on public transportation
	Spend more on public safety and crime prevention
	Keep current local service policies
Governance	Consolidate local government in [MSA name] and surrounding towns
	Give the state of [MSA state name] more power to coordinate policies
	in [MSA name] and surrounding towns
	Keep current local government structure
Education	Expand charter schools
	Give citizens vouchers that they can use to attend different schools
	Provide more children with free pre-school
	Pay teachers more to attract better teachers
	Keep current elementary and secondary school policies
Higher Education	Invest in community colleges
	Invest in local public universities
	Expand technical vocational training programs
	Expand student grant programs for funding their college
	Keep current higher education policies

Table 1: Conjoint Dimensions & Attribute Values for Local Development Plans. This table reports the attribute values for each dimension of the conjoint experiment.

We estimate an ordinary least squares regression of *Local Development Plan Support* on dichotomous indicator variables for all treatment categories, with the exception of the baseline for each conjoint dimension.<sup>12</sup> For the sake of consistency, we take the value that expresses the status quo as our baseline for each dimension. This estimation yields the average marginal component-specific effect (AMCE) for each treatment group relative to the baseline.<sup>13</sup> Standard errors are clustered at the individual level.

#### 3.2 Experimental Conjoint Estimates

Figure 2 presents the conjoint estimates for all the MSAs pooled together.<sup>14</sup> As an example of how to interpret the results, consider the *Higher Education* dimension and the estimate for *Community Colleges*. The dot is the point estimate, and the bars indicate the 95% confidence interval for this estimate. The point estimate of *Community Colleges* is 0.048, which indicates that respondents had a 4.8 percentage point higher probability of choosing a local development plan that invested more in community colleges compared to plans that had the *Keep Current Policies* option for the *Higher Education* dimension. This is the average marginal component-specific effect, and it has a causal interpretation. Figure 3 shows these same estimates for each MSA individually.

Three general patterns from these estimates should be noted. First, on average, citizens support active policies to support businesses in their communities. "Attract new businesses," "Stimulate existing companies," and "Tax breaks to entrepreneurs" all have positive and significant effects on the probability that a respondent chooses a plan. Second, citizens are also supportive of greater investments in human capital. "Pay teachers more," "Community colleges," "Local public universities," "Technical vocational training," and "Student grant programs" also have substantively and statistically significant positive effects on support for

<sup>&</sup>lt;sup>12</sup>The estimates presented employ survey weights that were used to adjust each MSA survey for remaining imbalances after YouGov's matched sampling procedures.

<sup>&</sup>lt;sup>13</sup>This assumes the attributes are fully randomized and there are no profile-order or carry-over effects. See Hainmueller, Hopkins & Yamamoto (2014) for further discussion.

<sup>&</sup>lt;sup>14</sup>See Appendix Table A-5 for the full results.

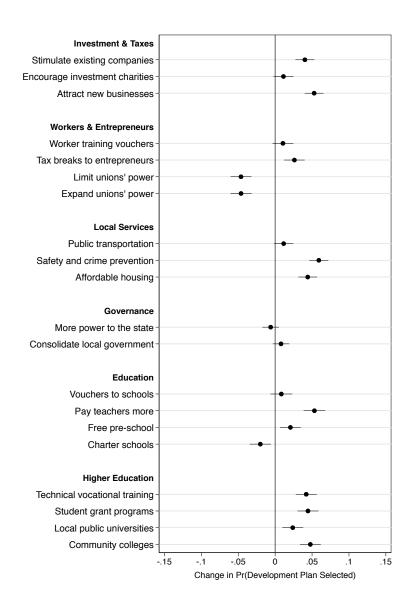


Figure 2: Conjoint Estimates of Local Development Policy Preferences Across MSAs. This plot shows estimates of the effect of randomly assigned attribute values for local development plan dimensions on the probability of supporting a development plan relative to the status quo policy for that dimension. Estimates are based on the regression of Local Development Plan Support on dummy variables for the values of the plan dimensions with SEs clustered by respondent. The status quo for each dimension is always the omitted category (not pictured). The bars indicate 95% confidence intervals.

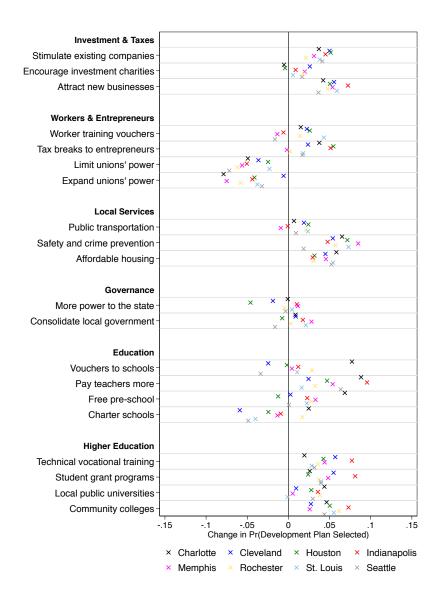


Figure 3: Conjoint Estimates of Local Development Policy Preferences by MSA. This plot shows estimates for each MSA of the effect of randomly assigned attribute values for local development plan dimensions on the probability of supporting a development plan relative to the status quo policy for that dimension. Estimates are based on the regression of Local Development Plan Support on dummy variables for the values of the plan dimensions. The status quo for each dimension is always the omitted category (not pictured). Confidence intervals for each estimate are omitted.

local development plans. Third, the evidence in Figure 3 suggests that although there is some variation across MSAs, the general pattern of estimates is quite similar across communities. Much of the variation between MSAs that is observed is consistent with the saliency of the problem in local politics. For example, crime is objectively a more significant political issue in Memphis than in Seattle. Although these average marginal component effects are rich with information about how citizens evaluate different policy alternatives for improving local economic performance, our goal in this paper is to measure and assess the extent to which these opinions vary by party identification. We turn to this analysis in the next section.

# 4 Partisanship and Local Development Policy Preferences

In this section, we examine the extent of sorting and partisan polarization about local development policy. Given the design of our conjoint experiment, sorting is defined as a policy alternative having a different effect on the probability that Democrats and Republicans choose a development plan relative to the status quo. Polarization is defined as the policy alternative having an opposite effect on the two groups, increasing the probability of selecting a plan for one party and decreasing the probability for the other party. This definition is particularly compelling in this setting for which status quo policies are the baseline. Our approach requires that we estimate the conditional average marginal component effect (CAMCE) (Hainmueller, Hopkins & Yamamoto 2014) for Strong Democrats and Strong Republicans. Our initial CAMCE estimates are based on a split-sample approach in which we employ the same OLS regression used in the previous section for estimating the AMCE for Strong Democrats and Strong Republicans separately.

Figure 4 presents our split sample CAMCE estimates for Strong Democrats and Strong Republicans. Generally, these results show that Democrats and Republicans have broadly

similar attitudes towards many of these proposals.<sup>15</sup> The point estimates for Strong Democrats and Strong Republicans are often neither statistically or substantively different from each other indicating an absence of substantial partisan sorting. Moreover, even when such differences exist, the point estimates have the same rather than opposite signs as we would expect if opinion was polarized. The exceptions to these patterns tend to be a subset of issues relating to labor and education which have played a large role in national political discussions.

Beginning with the top panel, we present the CAMCEs for the Investment & Taxes factor, which arguably contains the set of policies most tightly linked to competition for jobs and a strong tax base. First, we find that the probability that Strong Republicans and Strong Democrats select a plan is increased if that plan includes subsidies and tax breaks to stimulate existing companies as opposed to the status quo. The CAMCE for Strong Republicans is 3.4 percentage points higher than for Strong Democrats, but this difference is not statistically significant (p-value is 0.113).<sup>16</sup> Next, the same general pattern holds for a policy of using subsidies and tax breaks to attract new businesses. Democrats and Republican alike support this policy. The CAMCE estimate for Strong Republicans is 2.8 percentage points higher but again this difference is not significant (p = 0.173). On the other hand, respondents from both parties are less enthusiastic about encouraging investments by charities: the estimated CAMCE is indistinguishable from 0 for both groups and there is little evidence of partisan sorting or polarization, again underscoring the partisan consensus that appears on each policy related to Investment & Taxes.

The next panel shows the results for the Workers & Entrepreneurs factor. On this dimension, we find mixed evidence of sorting and polarization. There is almost no difference

<sup>&</sup>lt;sup>15</sup>Figure A-1 presents analogous estimates for all Democrats and all Republicans. The focus in the text is on Strong Democrats and Strong Republicans because these are the respondents for which we would expect the clearest sorting. That said, there are, of course, fewer strong partisans meaning our estimates may be less precise. There are not, however, generally important differences in the two sets of estimates.

<sup>&</sup>lt;sup>16</sup>The estimates reported in Figure 4 use the simple split-sample approach. However, any statements made in the text about whether estimates are different for Strong Democrats and Strong Republicans are based on a pooled regression that interacts the treatments with strong partisan indicators. See Appendix Table A-6.

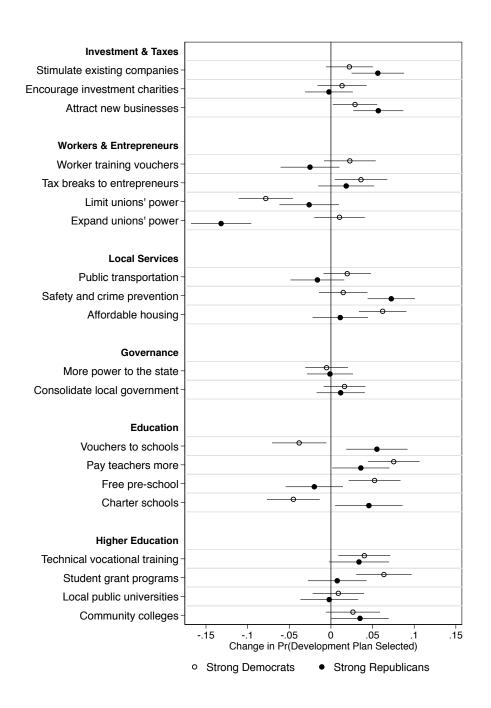


Figure 4: Split-sample CAMCE estimates showing differences between Strong Democrats and Strong Republicans. Points show coefficient estimates from separate OLS regressions, and bars show robust 95% confidence intervals.

in the point estimates for the policy of giving tax breaks to entrepreneurs that start new businesses. Respondents of both parties appear on average to view such a policy favorably, a result that aligns neatly with the findings in the top panel. However, when it comes to labor, there is more polarization. In particular, Democrats are much more supportive of unions than Republicans. Interestingly, both Democrats and Republicans appear to oppose limiting unions' power — though Strong Democrats are still 5.2 percentage points less likely to support a development plan with this option relative to the status quo than Strong Republicans (p = 0.035). But when it comes to expanding unions' power, this option has a large negative effect on Republicans but no effect on average for Democrats. On average, the difference between Strong Democrats and Strong Republicans is 14.2 percentage points (p < 0.001) — a substantively large and politically meaningful difference. Partisans are clearly sorted in this case and given that the point estimate for Democrats is positive, albeit not significantly different from zero, polarized as well. When it comes to providing vouchers for workers to get training, there is again some evidence of polarization. The point estimate is positive for Strong Democrats but negative for strong Republicans, and this difference of 4.8 percentage points is statistically significant (p = 0.046).

It is perhaps worth noting that policies regarding labor are a likely case for finding differences between Democrats and Republicans. For much of the 20th century, labor unions were a key stronghold and organizing platform for the Democratic party. Unlike on many other state and local policies, there is a clear distinction at the elite level between the parties when it comes to labor issues.

Next, we turn to the results for the Local Services factor. Here, see evidence of partisan sorting for all three alternatives to the status quo and some evidence for polarization in the area of public transportation. First, consider the proposal to spend more money on affordable housing. The unconditional AMCE reported in the previous section is 4.4 percentage points, indicating some overall support for the policy relative to the status quo. Republicans, however, are less supportive than Democrats. The CAMCE for Strong Democrats and Strong Republicans differs by 5.1 percentage points (p = 0.023). Still, the differences are not enough for the issue to have opposing effects on the probability that Democrats and Republicans choose a development plan. Next, consider spending more money on public safety and

crime prevention. Here, Republicans are more supportive than Democrats, though respondents of both parties mostly support this policy proposal relative to the status quo. Finally, there is mild division on the issue of spending more on public transportation. On this issue, Republicans tend to be slightly opposed and Democrats tend to be slightly supportive. We will revisit these split-sample results in the next section in which we estimate the CAMCEs after controlling for other characteristics of the respondents.

The next factor we consider are two Governance reforms: giving more power to the state and consolidating local governments. Both of these policies, on average, garnered neither support nor opposition relative to the status quo, with AMCEs of -0.6 and 0.7 percentage points reported in the previous section. On the first reform, the point estimates are almost identical for Democratic and Republican partisans and are very close to 0. On the proposal to consolidate local government, the point estimates are positive for both Strong Democrats and Strong Republicans but there is almost no difference between them and the estimates are not significantly different from zero.

Now, we consider the Education factor. This factor is arguably the one for which we see the greatest evidence of partisan polarization over local development policy. We start at the top of this panel with an issue that has received substantial attention in national media: issuing vouchers that citizens can use to attend different schools. As one might expect based on the public debate, the voucher policy option has a positive effect on the probability that Strong Republicans select a development plan relative to the status quo but a negative effect for Strong Democrats. The difference between the CAMCEs is 9.3 percentage points and is statistically significant (p < 0.001). There are similar divisions when it comes to expanding charter schools, with this option having opposing effects for Democrats and Republicans — and the difference between them is over 9 percentage points (p < 0.001). Third, there are again partisan divergences on the issue of free preschool, this time with the policy option having a positive effect for Democrats and a negative effect for Republicans. The difference between strong partisans is 7.2 percentage points — slightly smaller than on the previous two

issues but still quite sizable in the context of the conjoint experiment (p = 0.002). Finally, the last education policy proposal, paying teachers more, indicates partisan sorting but not polarization. Paying teachers more has a positive effect on the probability that both Strong Democrats and Strong Republicans choose a development plan relative to the status quo. That said, the difference between the CAMCEs is 3.9 percentage points and is marginally significant (p = 0.095).

On the issue of education policy, there tends to be fairly strong elite partisan cues that might help to explain the polarization that we observe. For instance, the current education secretary, Betsy DeVos, became known as a Republican fundraiser who was concerned principally with school choice. Similarly, a number of national Democratic politicians have advanced free preschool as a policy priority. Moreover, it is not clear how much information there is from competitive pressures about these policies. Competition for firms and higher income tax payers certainly provides a clear incentive for voters to want better schools. This demand seems to be reflected in the idea of "investing in education" which in this conjoint experiment is most clearly operationalized in the "Pay teachers more" policy option for which we observe support from both Democrats and Republicans, albeit with greater support on the part of Democrats. But it is less clear that competitive pressures yield unambiguous information about the effectiveness of vouchers, charter schools, and even free pre-school on local development.

The final factor we examine, in the bottom panel of Figure 4, is related to higher education policy. There is little evidence of partisan sorting in these estimates and no evidence of polarization. Beginning with investing in community colleges, we see that this policy alternative has a positive effect on the probability that both Strong Democrats and Strong Republicans choose a development plan relative to the status quo and there is virtually no difference in these CAMCEs between the groups. This result resonates with the wave of innovative new community college programs that cities across the country, in diverse political environments, have been able to agree on and, in many cases, successfully implement.

Similarly, for the proposal to expand technical vocational training, we see the same pattern. For investing in local public universities, the estimated CAMCEs are nearly zero for both Strong Democrats and Strong Republicans. The fact that the estimates are similar is what is important for the main question of this paper but it is interesting to note that investing in local public universities had a positive and significant AMCE for the full sample as reported in Section 3.2. Finally, for a proposal to expand student grant programs, CAMCE estimate is positive for both Strong Democrats and Strong Republicans but the estimate is 5.6 percentage points larger for Democrats and this difference is statistically significant (p = 0.023). This suggests some sorting on expanding student grant programs but not polarization.

On the whole, we take our split-sample results to indicate that citizens exhibit similar preferences over local policies aimed at spurring economic development. Before discussing the substantive implications of the results, we raise two questions about these estimates. The definitions of sorting and polarization used in this analysis are specific to the experimental conjoint research design that we employ. One might wonder whether this method is wellsuited for detecting partisan sorting. Is the absence of evidence of sorting and polarization due to a lack of partisan differences over local issues or is it due to an inability of this tool to uncover such differences? Two observations suggest that it is the former rather than the latter. First, our estimates do detect partisan differences for some labor and education policies. Second, previous experimental conjoint studies of national policies have uncovered large partisan differences in ACMEs for policies for which other survey methods would also predict partisan differences (see e.g. top income tax rates in Ballard-Rosa, Martin & Scheve (2017)). Another potential concern about these estimates is whether the presence or absence of partisan differences in the AMCEs is because Strong Democrats and Strong Republicans also have other characteristics which lead them to react similarly or differently to various policy attributes. We investigate this possibility in the next section.

# 5 Conditional Partisanship and Local Development Policy Preferences

The split-sample estimates of the CAMCEs presented in the previous section are unbiased estimates of the AMCEs for each partisan group. Given the CAMCE estimand, there is no bias created by not "controlling for" other individual characteristics in the split-sample estimates. Nonetheless, to fully understand heterogeneity in the AMCEs, it is helpful to define the estimand of interest as the CAMCE, controlling for a wide number of observed characteristics of each respondent. We want to know if the absence or presence of partisan differences is sensitive to conditioning on other potentially relevant characteristics for predicting local development policy preferences. In this section, we introduce a hierarchical model for estimating CAMCEs conditioned on observed individual characteristics and present these results focusing on differences among Strong Democrats and Strong Republicans.

## 5.1 A Hierarchical Model for Estimating CAMCEs from Experimental Conjoint Data

Our approach unifies two separate tasks: first, the preference measurement task that traditional OLS analysis of conjoint data enables; and, second, fitting a regression of the estimated preferences on individual-level characteristics.

To motivate the method, consider the more familiar setting of measuring preferences via a standard survey question. For instance, we might directly ask whether respondents support or oppose expanding charter schools. To investigate the correlates of support for charter schools, we could then regress responses on respondent-level covariates.<sup>17</sup> In conjoint experiments, this exercise is not as straightforward, because we must first measure preferences from the choices made in the conjoint tasks and typically respondents do not complete enough tasks to nonparametrically identify individual-level marginal component effects. As such, the

<sup>&</sup>lt;sup>17</sup>Indeed, this is exactly the analysis strategy we used in Figure 1.

conjoint literature has typically focused on estimating AMCEs or simple CAMCEs that can be estimated via split-sample approaches. We refer to this approach as "complete pooling" because it does not explicitly model individual-level heterogeneity in parameter estimates across respondents (Gelman & Hill 2007).

Alternatively, one could nonparametrically estimate individual-level marginal component effects (IMCEs) if each respondent completed a large enough number of conjoint tasks. In that case, we could run separate OLS regressions for each respondent. These estimates would converge to the true IMCEs as the number of tasks grows large. In the limit, we could perfectly measure individual-level parameters, then regress these preference parameters on individual-level covariates — just as we would with traditional survey questions. We refer to this approach as "no pooling" because no information is shared between respondents in estimating parameters. While theoretically possible, this strategy is typically not feasible in practice because each respondent completes only a relatively small number of tasks.

Our proposed method provides an intermediate between the complete-pooling and nopooling approaches. We use a hierarchical model that allows for individual-level heterogeneity in the way that conjoint levels affect the probability that the respondent prefers a particular profile. We then model these individual coefficients in a second-level regression as a function of respondent-level covariates. We estimate the model using a random-effects framework that allows for partial pooling between similar observations.

We briefly describe the setup here, with more details in the Appendix. Let i index respondents (i = 1, ..., N) and let j index conjoint profiles (j = 1, ..., J). If respondent i preferred profile j to the alternative, then we observe  $y_{ij} = 1$ ; otherwise  $y_{ij} = 0$ . Let  $X_{ij}$  denote a vector of dummy variables that specifies the conjoint levels that respondent i saw for profile j.

The first-level regression models conjoint responses as a linear function of the conjoint

<sup>&</sup>lt;sup>18</sup>In order for this estimator to be identified, every respondent must have seen every conjoint level at least once, and each respondent must have seen at least as many profiles as there are conjoint levels (i.e., a simple rank condition for OLS).

levels:

$$y_{ij} = \alpha_i + X'_{ij}\beta_i + \epsilon_{ij}. \tag{1}$$

In this equation,  $\alpha_i$  is an intercept term, which may vary at the individual level, that indicates the probability respondent i chooses a profile that features the baseline level of each factor.  $\beta_i$  is a parameter vector that relates the conjoint profile features to the probability of choosing that profile. Finally,  $\epsilon_{ij}$  is a mean-zero error term. Under the complete-pooling approach, we set  $\alpha_i = \alpha$  and  $\beta_i = \beta$  for all respondents, and estimate equation 1 via OLS. Under randomization,  $\beta$  represents the vector of AMCEs.

Instead, we allow for some heterogeneity, allowing elements of  $\beta_i$  to vary as a function of individual-level covariate vector  $Z_i$ . In particular, we specify the following linear functional form for element k of  $\beta_i$ :

$$\beta_i^k = Z_i' \gamma_k + \eta_{ik}. \tag{2}$$

The coefficient vector  $\gamma_k$  indicates how the expected individual-level marginal component effect varies as a function of respondent-level covariates, and  $\eta_{ik}$  is a mean-zero error term. Because  $Z_i$  may contain several variables, it allows us to characterize how some variable of interest — such as partisan identification — covaries with conjoint preferences after adjusting for other covariates.

It is useful to consider Equation 2 as analogous to the approach taken when modeling answers to traditional survey responses. In that case, we would replace  $\beta_i^k$  on the left-hand side with the actual survey response, and the  $\gamma$  coefficients would be the usual linear regression coefficients. In our case, we are jointly estimating the preference parameter  $\beta_i$ , along with the second-level coefficients  $\gamma$ .

Finally, we place several distributional assumptions on  $\epsilon_{ij}$  and  $\eta_{ik}$ , namely that they are normally distributed. We estimate the model in a Bayesian framework using Stan (Carpenter,

Gelman, Hoffman, Lee, Goodrich, Betancourt, Brubaker, Guo, Li & Riddell 2017). For more details on the estimation, see the Appendix.

This approach allows a richer description of heterogeneity in conjoints, enabling us to make statements of the form, "On average, Democrats are x percentage points more likely than demographically similar Republicans to support a plan that includes expanding union power, relative to the status quo." However, there are several limitations that we outline here. First, our approach requires parametric assumptions that may be violated. If the error distributions are not normal, then we may obtain unreliable estimates. Second, we can only control for observable individual-level characteristics; standard caveats about omitted variables bias apply here. In order to interpret the second-level coefficients as causal, we need to make the strong assumption that the second-level error term is uncorrelated with the regressors.<sup>19</sup>

#### 5.2 Multivariate Estimates

Our main specification models the conditional average marginal component effect as a function of a seven-point party identification scale (with indicators for each response option), along with extensive sociodemographic control variables including: age, race, sex, education, income, employment status, homeownership, length of time living in the region, and MSA indicators.<sup>20</sup> The coefficients on partisanship therefore capture differences between Democrats and Republicans, after (linearly) adjusting for other observable characteristics.

First, to demonstrate the advantage of the hierarchical model, we plot the distribution of estimated individual marginal component effects — in the notation of the previous section, the distribution of the  $\beta_i$ 's — in Figure 5. The lines in this figure shows kernel density

 $<sup>^{19}</sup>$ See Bansak (2018) for a thorough discussion of the assumptions needed to identify causal moderation effects. Our estimation approach is analogous to the estimator he proposes in section IVb.

<sup>&</sup>lt;sup>20</sup>Age is broken into the following bins: under 30 years, 31-50 years, 51-65 years, and over 65 years. Race is broken into the following categories: white, black, Latino, and other. Income is measured as an indicator for the respondent's income quartile within survey respondents from the same MSA. Employment status is defined as either "looking for work" or not (which includes those who are currently employed, retired, and not in the labor force). Length of time in MSA is broken into the following bins: 1-5 years, 6-10 years, 11-15 years, and over 16 years.

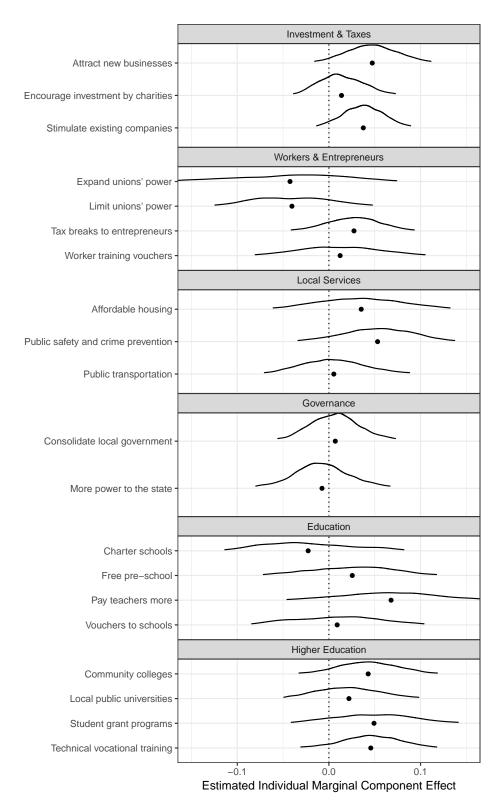


Figure 5: Distribution of estimated individual-level marginal component effects. The lines show a kernel density estimate of the posterior means of the IMCEs, while the dots show the average of the posterior means. Estimates are from the hierarchical model with sociode-mographic covariates predicting IMCEs. For readability, we trim the densities to omit the bottom 2.5% of density estimates.

estimates of the posterior means across all 7,800 survey respondents, while the points show the mean of the distributions — the model-based equivalent of the AMCEs presented earlier in the paper. This figure visualizes the variation in the effect of individual policies' inclusion in a policy bundle on respondents' probability of preferring that bundle. One interesting pattern is that the distribution of IMCEs has longer tails for some policy proposals than others. For example, compare the policy proposal to expand union power, on the one hand, and to use tax incentives to stimulate existing companies, on the other. There is substantial variation in the intensity of preferences over expanding union power. On average, a policy that expands union power is roughly 4 percentage points less likely to be chosen compared to a randomly chosen alternative policy bundle. However, a non-negligible portion of respondents are more than 10 percentage points less likely to choose such a policy bundle. On the other hand, preferences for using tax policy to stimulate existing companies are relatively concentrated around their mean value — indicating there is relative consensus over this issue.

Next, we can use the second-level regression estimates to investigate the nature of this heterogeneity, especially as it pertains to partisan sorting and polarization. Table 2 shows the estimated difference between the CAMCEs for strong Democrats compared to strong Republicans on each policy proposal, after adjusting for observable sociodemographic variables. The column labeled "Mean" reports the posterior mean, while the other columns report the posterior standard deviation and central 95% credible intervals.

This table is especially useful for understanding sorting, which again we define in our context as a significant difference in CAMCEs. The patterns are broadly similar to what we saw previously. There are minimal differences between Democrats and Republicans across all Investment & Tax policy proposals, giving tax breaks to entrepreneurs, Governance policy proposals, and several Higher Education proposals. We find that the disagreements over unions, worker training vouchers, and Education policy that we documented previously are all robust to inclusion of sociodemographic covariates.

The main differences from our previous results arise in the Local Services dimension.

Plan Dimension	Level	Mean	Post. SD	95% CI	
Investment & Taxes	Stimulate existing companies Encourage investment by charities Attract new businesses	0.018 $-0.010$ $0.013$	(0.018) (0.018) (0.018)	$[-0.02, \\ [-0.05, \\ [-0.02,$	0.05] 0.02] 0.05]
Workers & Entrepreneurs	Worker training vouchers Tax breaks to entrepreneurs Limit unions' power Expand unions' power	$-0.054^*$ $-0.019$ $0.054^*$ $-0.139^*$	(0.020) (0.020) (0.021) (0.021)	[-0.09, - [-0.06, [ 0.01, [-0.18, -	0.02] $0.10$ ]
Local Services	Public transportation Public safety and crime prevention Affordable housing	$-0.034$ $0.061^*$ $-0.029$	(0.018) (0.018) (0.018)	[-0.07, [ 0.03, [-0.06,	0.00] 0.10] 0.01]
Governance	More power to the state Consolidate local government	0.023 $-0.003$	(0.016) (0.016)	$[-0.01, \\ [-0.03,$	0.05] 0.03]
Education	Vouchers to schools Pay teachers more Free pre-school Charter schools	$0.105^*$ $-0.062^*$ $-0.090^*$ $0.103^*$	(0.020) (0.020) (0.020) (0.020)	[ 0.07, [-0.10, - [-0.13, - [ 0.06,	
Higher Education	Technical vocational training Student grant programs Local public universities Community colleges	-0.025 $-0.048*$ $-0.041*$ $0.005$	(0.020) (0.020) (0.020) (0.020)	[-0.06, [-0.09, - [-0.08, [-0.03,	0.01] -0.01] 0.00] 0.04]
Intercept	Strong Rep Strong Dem.	0.030	(0.029)	[-0.03,	0.09]

Table 2: Estimated second-level coefficients on the indicator for strong Republican, relative to strong Democrat. The first two columns specify the policy proposal. "Mean" refers to the posterior mean of the coefficient, while "post. SD" is the posterior standard deviation. The final column shows the 0.025 and 97.5 quantiles of the posterior distribution, i.e., the central 95% credible interval. Asterisks indicate that the 95% credible interval excludes 0.

In the split-sample approach, we found some mild differences across all three of these policy proposals. However, after adjusting for covariates, the only significant difference between Democrats and Republicans is on public safety and crime prevention. Strong Republicans have a 6 percentage point higher CAMCE for this proposal, on average, than Strong Democrats. On affordable housing and public transportation, Democrats still have larger CAMCEs but these differences are small and the 95% credible interval includes 0.

We also see a difference in the results for investing in local public universities. There was no evidence of partisan sorting over this issue in the split sample results but once we control for the demographic characteristics of respondents, Strong Republicans have a 4

percentage point lower CAMCE for this policy, on average, compared to Strong Democrats. This difference in the conditioned and unconditioned partisan comparisons is consistent with Republicans having demographic characteristics associated with greater support for higher education but once we control for these characteristics, Republicans may be ideologically more skeptical about higher education investments.

To investigate the extent of partisan polarization, we need a measure of whether Democrats and Republicans stand on opposite sides of an issue — not just whether they have significantly difference CAMCEs, on average. To approach this question, we use the fitted model to generate predictions of CAMCE for each respondent in the sample under two assumptions. First, we create a modified individual-level covariate matrix  $\tilde{Z}^{dem}$  which sets the "strong Democrat" indicator to 1 for all respondents, while leaving other covariates at their observed values. Second, we create the analogous  $\tilde{Z}^{rep}$  matrix. We then predict the CAMCE for each individual under these two assumptions and plot the resulting distributions. The amount of overlap of the two resulting distributions, as well as whether they tend to fall above or below 0, tells us how much partisan polarization there is on these issues.

These results are presented in Figure 6, which plots the predicted distribution of conditional average marginal component effects under the assumption that everyone is a strong Republican (red line) or a strong Democrat (blue line). The points show means of the respective distributions. Here, we can see that there are some local issues on which partisans are sorted — in the sense of some partisans having different CAMCEs — but not polarized. On the issue of limiting unions' power, while Democrats are much less amenable to this policy than Republicans, there is still substantial overlap in the distributions, and the means of the distributions are both negative. A similar pattern exists for spending more on public safety, paying teachers more, and expanding student grant programs. On these issues, partisans have different CAMCEs in magnitude, but the sign is the same on average.

There is substantial polarization, however, on several issues. There is very little overlap in the distributions for expanding unions' power and the other three Education policy pro-

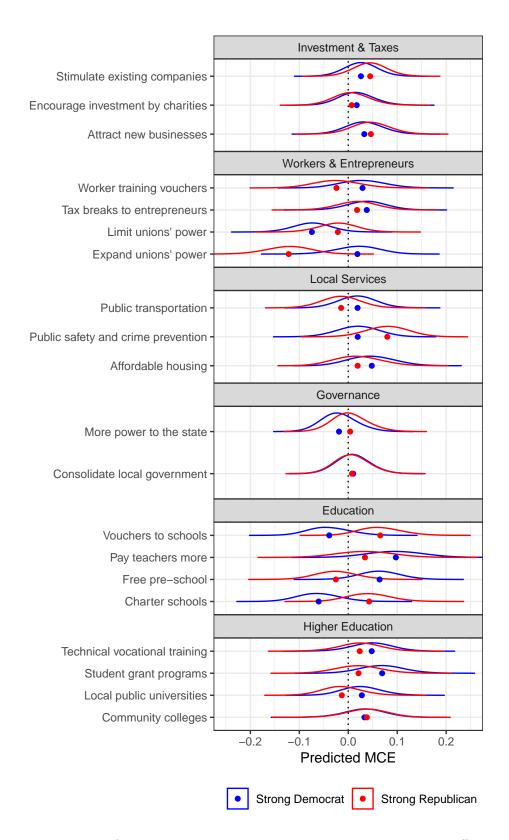


Figure 6: Distribution of predicted individual-level marginal component effects, assuming everyone is a strong Democrat or a strong Republican, after controlling for demographics. The omitted default category for each dimension is the status quo. Lines shows posterior mean of kernel density estimates. Predictions are generated as the individual-level  $\beta_i$ 's, after fixing partisan identification to either Strong Democrat or Strong Republican and holding other covariates fixed at their observed values. Points show means of the respective distributions. Full multilevel regression results are available in Appendix E.

posals — school vouchers, free pre-school, and charter schools. On these issues, the average difference between Democrats and Republicans is so large that shifting the distributions results in almost no common ground.

To summarize, across both our split-sample and hierarchical model estimates, there is broad bipartisan support for policies aimed at encouraging business investment. In particular, policies to use taxes and subsidies to incentive investment draw strong support from both sides of the aisle. Additionally, citizens of all political stripes support similar higher education policy proposals, notably investment in community colleges, technical training, and student grant programs. Though these policies are riskier in terms of attracting businesses—because people can move away after they are educated—empirically there is evidence that having skilled workers and innovation spurred by higher education institutions are important components of a thriving local economy (Moretti 2012). These results are broadly consistent with theories that emphasize the pressure cities are under to compete for firms and high-income residents.

On the other hand, across both estimation strategies, we observe polarization on two policy domains: labor issues and primary and secondary education. Citizens appear to be aligned with their parties on these issues, with Republicans supporting school choice and opposing labor unions, and Democrats supporting traditional public education and supporting labor unions. Given that these issues have played a prominent role in national politics, these differences likely reflect the strength of national partisan cues about these issues and the absence of sufficiently clear competing pressures to overcome those associations.

Finally, for several issues, particularly local services, our two estimation strategies yield different results. The split-sample estimates suggest a good deal of partisan sorting over the policy to increase spending on local services but these differences substantially disappear in the hierarchical models that control for other respondent characteristics. We interpret these differences as indicating that while partisans on average react differently to these policy deviations from the status quo those differences are largely a function of differences in sex,

race, and homeownership rather than partisanship among otherwise similar citizens.

#### 6 Conclusion

The specter of partisan polarization haunts American politics. Academics and pundits point to the increasing divide between Democrats and Republicans as an impediment to solving pressing policy problems. But extant evidence on polarization focuses primarily on national policy issues, with less research on the extent of polarization in subnational policy domains. On the one hand, there is evidence that partisanship of mayors matters for local policymaking, suggesting that citizens, too, may hold divergent views over local policy. On the other hand, there are good reasons to think that polarization over local political economy issues, in particular, would be muted. Residential, capital, and labor mobility within and across regions makes it difficult for localities to pursue dramatically different economic policies, as cities compete to attract high-income residents and businesses. Additionally, and possibly as a consequence, there are relatively few cues from elites about which policies partisans should support. However, if there is polarization and partisan sorting over these local issues, it could have large policy implications. There is increasing economic divergence across metro regions in the U.S., meaning local economic policy is of central importance.

In this paper, we analyze new data on support for strategies that local governments could pursue to manage the evolving economic environment. We report the results of identical surveys conducted in eight large cities in the U.S. Using a conjoint survey experiment, we measure support for various policy platforms aimed at promoting local economic development. We find that policies aimed at attracting and stimulating companies, giving tax incentives to entrepreneurs, promoting local services to prevent crime, and boosting affordable housing all receive support over status quo policies. Additionally, there is support for investing in higher education, particularly in technical training, student grant programs, community colleges, and public universities. Finally, there is also support for paying teachers

more and implementing free pre-school. These results contribute to a large political economy literature which focuses on the politics of economic development, particularly in the context of increasing geographic inequality in patterns of U.S. growth over the last several decades.

The main contribution of the paper, however, is to study the extent of partisan disagreement on these local issues. We provide a research design employing conjoint survey experiments to study both partisan sorting and partisan polarization. We further develop a hierarchical model for estimating conditional average marginal component effects for strong partisans controlling for other individual characteristics. This methodology provides numerous new ways to study heterogeneity in average marginal component effects that complement commonly used split-sample estimates. We find that there is relatively little partisan sorting and polarization over core development issues. The effect of policy alternatives that depart from the status quo are similar among Strong Democrats and Strong Republicans, especially for issues that affect business investment and that are likely to be affected by competition for firms and high human capital workers. Even when we observe partisan differences, it is often the case that they are not large enough to have opposing effects on the probability that Democrats and Republicans support a local development plan. The low levels of polarization on these sets of issues run in contrast to the partisan divides seen on national policy issues — even among the same set of respondents. The results are consistent with cities being relatively constrained in the policies they can pursue, leaving less room for parties to stake out distinct positions.

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# Appendix for "City Limits to Partisan Polarization in the American Public"

### A Surveys

The surveys were conducted for bgC3 by YouGov in January and February of 2017 in eight Metropolitan Statistical Areas (MSAs): Charlotte, Cleveland, Houston, Indianapolis, Memphis, Rochester, St. Louis, and Seattle. The surveys are representative samples of the adult population of each MSA. YouGov employs matched sampling in which interviews are conducted from participants in YouGovs online panel and then matched to sampling frames for each MSA on gender, age, race, and education. The sampling frames are constructed from the full 2016 American Community Survey. All matched respondents were then assigned weights stratified on 2016 presidential vote, age, sex, race, and education to correct for remaining imbalances. The final number of observations was 1,000 in each of the MSAs except Rochester for which the total was 800.

Means         Raw         Weighted         Means         Raw           Age         45.66         45.25         Age         48.64           Female         0.59         0.53         Female         0.59           White         0.71         0.65         White         0.79           Black         0.18         0.23         Black         0.15           Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         Descriptions         1,000           Houston         Indianapolis         Indianapolis<	Weighte 48.9 0.5 0.7 0.1 0.0 0.3 0.6 0.5 0.4 1,00  Weighte
Age         45.66         45.25         Age         48.64           Female         0.59         0.53         Female         0.59           White         0.71         0.65         White         0.79           Black         0.18         0.23         Black         0.15           Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         Descriptions         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Means         Raw	48.9 0.5 0.7 0.1 0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4
Female         0.59         0.53         Female         0.59           White         0.71         0.65         White         0.79           Black         0.18         0.23         Black         0.15           Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Age         46.50           Female         0.55         0.51         Female         0.62<	0.7 0.1 0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4
White         0.71         0.65         White         0.79           Black         0.18         0.23         Black         0.15           Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Pemale         0.62 <td>0.7 0.1 0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4</td>	0.7 0.1 0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4
Black         0.18         0.23         Black         0.15           Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White	0.1 0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4
Latino         0.03         0.07         Latino         0.02           College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12 <td>0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4</td>	0.0 0.3 0.6 0.5 0.4 0.2 0.5 0.4
College Degree         0.55         0.41         College Degree         0.51           Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02<	0.3 0.6 0.5 0.4 0.2 0.5 0.4
Some College         0.78         0.64         Some College         0.72           In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         Democrat         0.24           Worded Trump 2016         0.40         Observations         1,000           Houston         Indianapolis         1,000           Means         Raw         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree	0.6 0.5 0.4 0.2 0.5 0.4
In the Labor Force         0.66         0.64         In the Labor Force         0.61           Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis         Raw           Means         Raw         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.76         Some College         0.76	0.5 0.4 0.2 0.5 0.4
Democrat         0.34         0.35         Democrat         0.39           Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis         Indianapolis         Raw           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	0.4 0.2 0.5 0.4 1,00
Republican         0.29         0.30         Republican         0.24           Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	0.2 0.5 0.4 1,00
Voted Clinton 2016         0.47         0.47         Voted Clinton 2016         0.51           Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	0.5 0.4 1,00
Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	1,00
Voted Trump 2016         0.45         0.50         Voted Trump 2016         0.40           Observations         1,000         1,000         Observations         1,000           Houston         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	1,00
Houston         Indianapolis           Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	,
Means         Raw         Weighted         Means         Raw           Age         44.66         44.51         Age         46.50           Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	Weighte
Age       44.66       44.51       Age       46.50         Female       0.55       0.51       Female       0.62         White       0.51       0.41       White       0.82         Black       0.17       0.17       Black       0.12         Latino       0.23       0.33       Latino       0.02         College Degree       0.48       0.40       College Degree       0.54         Some College       0.70       0.60       Some College       0.76	Weighte
Age       44.66       44.51       Age       46.50         Female       0.55       0.51       Female       0.62         White       0.51       0.41       White       0.82         Black       0.17       0.17       Black       0.12         Latino       0.23       0.33       Latino       0.02         College Degree       0.48       0.40       College Degree       0.54         Some College       0.70       0.60       Some College       0.76	
Female         0.55         0.51         Female         0.62           White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	46.5
White         0.51         0.41         White         0.82           Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	0.5
Black         0.17         0.17         Black         0.12           Latino         0.23         0.33         Latino         0.02           College Degree         0.48         0.40         College Degree         0.54           Some College         0.70         0.60         Some College         0.76	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.7
	0.1
Some College 0.70 0.60 Some College 0.76	0.0
9	0.4
ű –	0.6
In the Labor Force 0.65 0.66 In the Labor Force 0.63	0.6
Democrat 0.32 0.34 Democrat 0.30	0.3
Republican 0.27 0.26 Republican 0.32	0.3
1	
Voted Clinton 2016 0.47 0.49 Voted Clinton 2016 0.45	0.4
Voted Trump 2016 0.44 0.47 Voted Trump 2016 0.44	0.5
Observations 1,000 1,000 Observations 1,000	1,00
Memphis Rochester	
Means Raw Weighted Means Raw	Weighte
Age 45.65 45.03 Age 48.44	48.1
Female 0.63 0.53 Female 0.62	0.5
	0.8
Black 0.33 0.45 Black 0.06	0.0
Latino 0.02 0.03 Latino 0.04	0.0
College Degree 0.51 0.36 College Degree 0.58	0.4
Some College 0.80 0.60 Some College 0.76	0.6
In the Labor Force 0.65 0.63 In the Labor Force 0.59	0.5
Democrat 0.35 0.40 Democrat 0.33	0.3
Republican 0.29 0.26 Republican 0.27	0.2
Voted Clinton 2016 0.47 0.55 Voted Clinton 2016 0.48	0.4
Voted Trump 2016 0.45 0.42 Voted Trump 2016 0.42	0.4
Observations 1,000 1,000 Number of Observations 800	80
St. Louis Seattle	
Means Raw Weighted Means Raw	Weighte
Age 48.13 48.25 Age 46.00	46.1
Female 0.58 0.52 Female 0.55	0.5
	0.6
DIRCK ILLS ILLD Black 0.07	0.0
	0.0
Latino 0.01 0.03 Latino 0.05	0.5
Latino 0.01 0.03 Latino 0.05	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Latino         0.01         0.03         Latino         0.05           College Degree         0.53         0.42         College Degree         0.58           Some College         0.77         0.63         Some College         0.78           In the Labor Force         0.62         0.60         In the Labor Force         0.64	0.6
Latino         0.01         0.03         Latino         0.05           College Degree         0.53         0.42         College Degree         0.58           Some College         0.77         0.63         Some College         0.78           In the Labor Force         0.62         0.60         In the Labor Force         0.64           Democrat         0.36         0.36         Democrat         0.41	0.6 0.4
Latino         0.01         0.03         Latino         0.05           College Degree         0.53         0.42         College Degree         0.58           Some College         0.77         0.63         Some College         0.78           In the Labor Force         0.62         0.60         In the Labor Force         0.64           Democrat         0.36         0.36         Democrat         0.41           Republican         0.24         0.27         Republican         0.16	0.6 0.4 0.1
Latino         0.01         0.03         Latino         0.05           College Degree         0.53         0.42         College Degree         0.58           Some College         0.77         0.63         Some College         0.78           In the Labor Force         0.62         0.60         In the Labor Force         0.64           Democrat         0.36         0.36         Democrat         0.41           Republican         0.24         0.27         Republican         0.16           Voted Clinton 2016         0.50         0.48         Voted Clinton 2016         0.61	0.6 0.4 0.1 0.6
Latino         0.01         0.03         Latino         0.05           College Degree         0.53         0.42         College Degree         0.58           Some College         0.77         0.63         Some College         0.78           In the Labor Force         0.62         0.60         In the Labor Force         0.64           Democrat         0.36         0.36         Democrat         0.41           Republican         0.24         0.27         Republican         0.16	0.7 0.6 0.4 0.1 0.6 0.3

Table A-1:  $Summary\ Statistics$ .

#### **B** Local Problems

Word category	Share
Economy and employment	33.3
Crime	30.3
Government and politics	25.3
Poverty and social issues	20.2
Housing	13.4
Education	10.2
Traffic and transport	10.1
Race	7.8
Observations	7,800

Table A-2: Major Issues Facing People Across MSAs: Word Categories. The table reports the percentage of respondents across all eight MSAs who answered the question: "What do you think are the major issues facing people in the [MSA Name] area these days?" with a response that included a given category. The open-ended responses could include more than one category and therefore do not sum to 100%.

Word	Share
crime	21.0
job	15.3
housing	9.5
education	8.6
lack	8.0
homeless	7.7
people	7.2
poverty	6.6
drug	5.4
transport	4.7
tax	4.7
violence	4.5
issue	4.4
government	4.2
public	4.2
unemployment	4.2
traffic	4.1
cost	3.9
city	3.8
living	3.5
Observations	7,800

 ${\it Table A-3:}\ {\it Major Issues Facing People Across MSAs: Single Words.}$ 

Charlotte		Cleveland	
Word category	Share	Word category	Shar
Economy and employment	29.7	Economy and employment	43.
Government and politics	25.5	Crime	32.
Crime	24.1	Government and politics	23.
Housing	16.6	Poverty and social issues	19.
Traffic and transport	14.8	Education	12.
Poverty and social issues	11.9	Housing	10.
Education	9.7	Race	6.
Race	9.6	Traffic and transport	4.
Observations	1,000	Observations	1,00
Houston		Indianapolis	
Word category	Share	Word category	Shar
Economy and employment	26.5	Crime	39.
Government and politics	22.4	Economy and employment	35.
Poverty and social issues	15.9	Government and politics	25.
Crime	15.0	Poverty and social issues	17.
Traffic and transport	14.9	Traffic and transport	11.
Housing	7.7	Education	11.
Education	4.6	Housing	9.
Race	2.5	Race	5.
Observations	1,000	Observations	1,00
Memphis		Rochester	
Wand agtagami	Ch ama	Word agtagomy	Cham
Word category	Share	Word category	
Crime	48.3	Economy and employment	47.
Crime Economy and employment	48.3 31.8	Economy and employment Government and politics	47. 29.
Crime Economy and employment Government and politics	48.3 31.8 20.6	Economy and employment Government and politics Poverty and social issues	47. 29. 25.
Crime Economy and employment Government and politics Poverty and social issues	48.3 31.8 20.6 19.6	Economy and employment Government and politics Poverty and social issues Crime	47. 29. 25. 25.
Crime Economy and employment Government and politics Poverty and social issues Education	48.3 31.8 20.6 19.6 15.1	Economy and employment Government and politics Poverty and social issues Crime Education	Shar 47. 29. 25. 25.
Crime Economy and employment Government and politics Poverty and social issues Education Race	48.3 31.8 20.6 19.6 15.1 13.4	Economy and employment Government and politics Poverty and social issues Crime Education Housing	47. 29. 25. 25. 15.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing	48.3 31.8 20.6 19.6 15.1 13.4 4.9	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race	47. 29. 25. 25. 15. 10.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport	47. 29. 25. 25. 15. 10. 4. 2.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations	48.3 31.8 20.6 19.6 15.1 13.4 4.9	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations	47. 29. 25. 25. 15. 10. 4. 2.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations St. Louis	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations Seattle	47. 29. 25. 25. 15. 10. 4. 2.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations St. Louis Word category	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category	47. 29. 25. 25. 10. 4. 2.  80
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing	47. 29. 25. 25. 10. 4. 2. 80  Shar 42.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues	47. 29. 25. 25. 10. 4. 2. 80  Shar 42. 35.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics	47. 29. 25. 25. 10. 4. 2. 80  Shar 42. 35. 29.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics Race	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6 18.9	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics Traffic and transport	47. 29. 25. 25. 10. 4. 2. 80  Sharr 42. 35. 29. 24.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics Race Poverty and social issues	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6 18.9 17.4	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics Traffic and transport Economy and employment	47. 29. 25. 25. 10. 4. 2.  80  Sharr 42. 35. 29. 24.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics Race Poverty and social issues Education	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6 18.9 17.4 9.8	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics Traffic and transport Economy and employment Crime	47. 29. 25. 25. 10. 4. 2.  80  Shar 42. 35. 29. 24. 19. 13.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics Race Poverty and social issues	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6 18.9 17.4 9.8 5.3	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics Traffic and transport Economy and employment	47. 29. 25. 25. 10. 4. 2.  80  Shar 42. 35. 29. 24. 19. 13. 4.
Crime Economy and employment Government and politics Poverty and social issues Education Race Housing Traffic and transport Observations  St. Louis  Word category Crime Economy and employment Government and politics Race Poverty and social issues Education	48.3 31.8 20.6 19.6 15.1 13.4 4.9 2.4 1,000 Share 44.1 34.6 26.6 18.9 17.4 9.8	Economy and employment Government and politics Poverty and social issues Crime Education Housing Race Traffic and transport Observations  Seattle  Word category Housing Poverty and social issues Government and politics Traffic and transport Economy and employment Crime	47. 29. 25. 25. 10. 4. 2.  80  Sharr 42. 35. 29. 24. 19. 13.

 ${\bf Table~A-4:}~{\it Major~Issues~Facing~People~by~MSA:}~{\it Word~Categories.}$ 

# C Experimental Conjoint: Additional Results

	(1)	(2)
Policies	Estimate	SE
Investment and Taxes		. ()
Stimulate existing companies		* (0.007)
Encourage investment by charities	0.011	(0.007)
Attract new businesses	0.053**	* (0.006)
Workers and Entrepreneurs		
Worker training vouchers	0.011	(0.007)
Tax breaks to entrepreneurs	0.026***	* (0.007)
Limit unions' power	-0.046**	* (0.007)
Expand unions' power	-0.046**	* (0.007)
Local Services		
Public transportation	0.012*	(0.007)
Public safety and crime prevention		* (0.007)
Affordable housing		* (0.006)
Amordable housing	0.011	(0.000)
Governance		
More power to the state	-0.006	(0.006)
Consolidate local government	0.008	(0.006)
Education		
Vouchers to schools	0.008	(0.008)
Pay teachers more	0.053***	* (0.007)
Free pre-school		* (0.007)
Charter schools	-0.020**	* (0.007)
Higher Education		
Technical vocational training	0 049**	* (0.007)
Student grant programs		* (0.007)
Local public universities		* (0.007)
Community colleges		* (0.007)
community conteges	0.010	(0.001)
Observations	78,00	0
Respondents	7,800	
Root MSE	0.49	7

Table A-5: Conjoint Estimates for Local Development Policy Preferences. Standard errors clustered at the individual level. \*\*\*p < 0.01, \*\*p < 0.05, \*p < 0.1.

Plan Dimension	Level	Coefficient	SE	<i>p</i> -value	95% CI	
Investment & Taxes	Attract new businesses Stimulate existing companies Encourage investment charities	0.028 $0.034$ $-0.016$	(0.020) (0.022) (0.021)	0.173 0.113 0.455	$[-0.01, \\ [-0.01, \\ [-0.06,$	0.08] 0.08] 0.03]
Workers & Entrepreneurs	Limit unions' power Expand unions' power Worker training vouchers Tax breaks to entrepreneurs	$0.052^*$ $-0.142^*$ $-0.048^*$ $-0.018$	(0.025) (0.024) (0.024) (0.023)	0.035 0.000 0.046 0.449	[ 0.00, [-0.19, - [-0.09, - [-0.06,	
Local Services	Affordable housing Public transportation Safety and crime prevention	$-0.051^*$ $-0.036$ $0.058^*$	(0.022) (0.022) (0.021)	0.023 0.103 0.005	[-0.09, -0.08, -0.08, -0.02, -0.02, -0.02]	$     \begin{bmatrix}       -0.01 \\       0.01 \\       0.10     \end{bmatrix} $
Governance	Consolidate local government More power to the state	-0.005 $0.004$	(0.020) (0.019)	0.815 0.832	$[-0.04, \\ [-0.03,$	0.03] 0.04]
Education	Charter schools Vouchers to schools Free pre-school Pay teachers more	$0.091^*$ $0.093^*$ $-0.072^*$ $-0.039$	(0.026) (0.025) (0.024) (0.024)	0.001 0.000 0.002 0.095	[ 0.04, [ 0.04, [-0.12, - [-0.09,	$   \begin{array}{c}     \hline       0.14] \\       0.14] \\       -0.03] \\       0.01] $
Higher Education	Community colleges Local public universities Technical vocational training Student grant programs	0.008 $-0.011$ $-0.006$ $-0.056*$	(0.024) (0.024) (0.024) (0.025)	0.726 0.647 0.793 0.023	[-0.04, $[-0.06,$ $[-0.05,$ $[-0.10,$	$   \begin{array}{c}     0.06] \\     0.04] \\     0.04] \\     -0.01] $
Intercept	Strong Rep Strong Dem.	0.026	(0.035)	0.460	[-0.04,	0.09]

Table A-6: OLS Interaction Coefficients. This table shows the interaction coefficients of an OLS regression using data from strong partisans of the outcome variable on the conjoint levels plus indicators for being a Strong Republican. The coefficients show the differences in CAMCE between Strong Republicans compared to Strong Democrats. Standard errors are clustered at the respondent level. \*p < 0.05

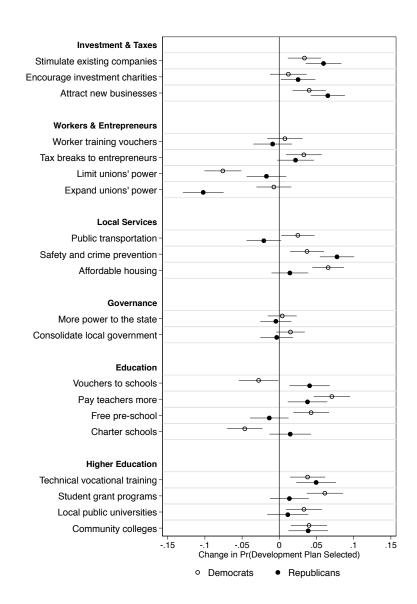


Figure A-1: Conjoint Estimates of Local Development Policy Preferences by Party Identification. Party identification is measured in a single question: "Generally speaking, do you usually think of yourself as a Democrat, a Republican, an independent, or what?" The estimates reported here are for "Democrat" and "Republican" only.

#### D Hierarchical Model Estimation Details

Our proposed method is to estimate a random-slopes hierarchical model that admits heterogeneity in the individual-level marginal component effects. To recap from the main text, the experimental setup is such that each individual, indexed by  $i \in \{1, ..., N\}$ , sees several conjoint profiles, indexed by  $j \in \{1, ..., J\}$ . In our survey, there are N = 7,800 respondents who each complete 5 conjoint tasks in which they see 2 conjoint profiles, so J = 10. Let  $y_{ij} = 1$  if respondent i indicates that she prefers profile j to its alternative, and  $y_{ij} = 0$  otherwise. Let  $X_{ij}$  denote a vector of dummy variables that describes the conjoint profile, and denote the dimension of  $X_{ij}$  by K.

We model the probability of choosing a profile as a linear function of the attributes, as is standard in the conjoint literature. However, in contrast to the standard analysis, we also allow the coefficients to vary by respondent. We specify the first-level equation

$$y_{ij} = \alpha_i + X'_{ij}\beta_i + \epsilon_{ij},\tag{3}$$

where  $\alpha_i$  is the probability that respondent *i* chooses a conjoint profile in which all the levels are set to their baseline category,  $\beta_i$  is the individual-level coefficient vector (which has length K), and  $\epsilon_{ij}$  is a mean-zero error term.

Next, we model  $\alpha_i$  the  $\beta_i$ 's to be a linear function of respondent-level covariate vector  $Z_i$  (which may include an intercept). For  $\alpha_i$  and element k of the  $\beta_i$  vector, we specify

$$\alpha_i = Z_i' \gamma_\alpha + \eta_i^\alpha \tag{4}$$

$$\beta_i^k = Z_i' \gamma_k + \eta_i^k, \tag{5}$$

where  $\gamma_{\alpha}$  and  $\gamma_{k}$  are vectors of second-level regression coefficients and  $\eta_{i}^{\alpha}$  and  $\eta_{ij}$  are mean-zero error terms.

We specify that  $\epsilon_{ij} \stackrel{iid}{\sim} \text{Normal}(0, \sigma_{\epsilon}^2)$ ,  $\eta_i^{\alpha} \stackrel{iid}{\sim} \text{Normal}(0, \sigma_{\eta^{\alpha}})$ ,  $\eta_i^{k} \stackrel{iid}{\sim} \text{Normal}(0, \sigma_{\eta^{k}}^2)$ , where the variances are terms to be estimated and independence is across both respondents i and conjoint levels k. The distributions on the  $\eta$  terms induce a hierarchical random-effects structure on the  $\alpha$  and  $\beta$  coefficients, which enables partial pooling across similar observations (Gelman & Hill 2007).

We specify the following diffuse independent priors on the second-level coefficients:

$$\gamma_{\alpha} \sim \text{Normal}(0, 10^2 \cdot I)$$
 (6)

$$\gamma_k \sim \text{Normal}(0, 10^2 \cdot I)$$
 (7)

where I is the identity matrix of dimension equal to  $\dim(Z_i)$ , so each element of the  $\gamma$  vectors has an independent Normal $(0, 10^2)$  prior. The standard deviations are given the following half-Cauchy priors:

$$\sigma_{\epsilon} \sim \text{Half-Cauchy}(0,2)$$
 (8)

$$\sigma_{\eta^{\alpha}} \sim \text{Half-Cauchy}(0,2)$$
 (9)

$$\sigma_{n^k} \sim \text{Half-Cauchy}(0,2).$$
 (10)

We estimate the model by Markov chain Monte Carlo implemented in Stan (Carpenter et al. 2017). We run 8 chains each for 1200 iterations, discarding the first 600 from each chain as a warm-up period. Thus, our final analysis includes 4,800 samples from the posterior distribution. We examine traceplots and the Gelman-Rubin  $\hat{R}$  statistic, and the Bayesian fraction of missing information (Betancourt 2016) to assess convergence. The traceplots we examined indicated that the chains mixed well and had converged to stationary distributions. Across all parameters, the  $\hat{R}$  statistic was close to 1, indicating that the chains converged to the same distribution. Finally, the BMFI did not indicate any pathological behavior.<sup>21</sup>

## E Hierarchical Regression Tables

Here we report the full set of hierarchical regression results. In terms of the notation used in Section 5.1, these are  $\gamma$  coefficients. There are separate coefficients on each individual-level variable for every level in the conjoint. In all tables that follow, the coefficients are posterior means, and posterior standard deviations are presented in parentheses. Coefficients have stars next to them if  $|\bar{\theta}/sd(\theta)| \geq 1.96$ , i.e., p-value less than 0.05 using a normal approximation to the posterior distribution.

<sup>&</sup>lt;sup>21</sup>To aid computation, we estimate a re-parameterized version of this model. MCMC methods will not perform well when the model written here is implemented directly, due to a high degree of correlation in the parameters that is induced in the sampling process. Instead, we implement a "non-centered parameterization" that avoids these sampling problems but is numerically equivalent to the model written here. For details, see Stan Development Team (2019), section 21.7.

 ${\bf Table~A-7:~Partisanship-Factor:~Education}$ 

	Charter	Vouchers	Free	Pay
	schools	to schools	pre-school	teachers more
Party: Weak Dem.	0.010	0.030	-0.035	-0.030
r areg. Wear Benn	(0.019)	(0.020)	(0.019)	(0.020)
Party: Lean Dem.	0.013	0.014	-0.025	-0.012
3	(0.022)	(0.022)	(0.022)	(0.022)
Party: Independent	$0.044^{*}$	$0.063^{*}$	$-0.011^{'}$	$-0.026^{'}$
•	(0.020)	(0.020)	(0.019)	(0.020)
Party: Lean Rep.	$0.092^{*}$	0.082*	$-0.090^{*}$	$-0.048^{*}$
•	(0.024)	(0.025)	(0.025)	(0.024)
Party: Weak Rep.	0.036	$0.075^{*}$	$-0.060^*$	$-0.046^*$
	(0.021)	(0.021)	(0.021)	(0.021)
Party: Strong Rep.	$0.103^*$	$0.105^{*}$	$-0.090^*$	$-0.062^*$
	(0.020)	(0.020)	(0.020)	(0.020)
Age: 31-50	0.011	-0.022	-0.026	-0.028
	(0.017)	(0.017)	(0.017)	(0.017)
Age: 51-65	0.023	-0.009	-0.018	-0.016
	(0.018)	(0.018)	(0.018)	(0.018)
Age: 65+	0.017	-0.021	-0.015	-0.019
	(0.021)	(0.021)	(0.021)	(0.021)
Race: Black	0.019	0.028	-0.004	$-0.038^*$
	(0.018)	(0.018)	(0.018)	(0.018)
Race: Latino	-0.014	0.017	-0.042	-0.008
	(0.028)	(0.028)	(0.027)	(0.028)
Race: Other	$0.047^{*}$	-0.017	-0.014	-0.005
	(0.024)	(0.025)	(0.025)	(0.024)
Female	-0.007	-0.000	0.007	$0.032^*$
	(0.012)	(0.012)	(0.012)	(0.012)
College	0.010	0.015	-0.002	$0.031^*$
	(0.013)	(0.013)	(0.013)	(0.013)
Income: Second Quartile	0.024	-0.009	0.016	0.029
	(0.017)	(0.017)	(0.017)	(0.017)
Income: Third Quartile	0.019	-0.010	0.041*	0.057*
	(0.018)	(0.018)	(0.018)	(0.018)
Income: Fourth Quartile	0.005	-0.008	0.012	0.024
	(0.019)	(0.019)	(0.019)	(0.019)
Looking for Work	0.014	-0.017	-0.031	-0.034
	(0.020)	(0.020)	(0.020)	(0.020)
Homeowner	-0.005	-0.015	-0.021	-0.017
<b>∓</b> .	(0.014)	(0.015)	(0.015)	(0.014)
Intercept	-0.021	0.031	0.128*	0.157*
	(0.037)	(0.037)	(0.037)	(0.036)

Table A-8: Partisanship – Factor: Higher Education

	Community	Local	Technical	Student
	colleges	public universities	vocational training	grant programs
Party: Weak Dem.	0.004	0.021	-0.005	-0.010
-	(0.020)	(0.020)	(0.019)	(0.020)
Party: Lean Dem.	0.038	0.030	-0.002	0.018
	(0.022)	(0.023)	(0.022)	(0.023)
Party: Independent	0.029	-0.011	0.014	-0.020
	(0.020)	(0.020)	(0.019)	(0.020)
Party: Lean Rep.	0.005	-0.030	-0.006	-0.041
	(0.025)	(0.024)	(0.024)	(0.025)
Party: Weak Rep.	-0.011	-0.019	0.002	$-0.056^*$
	(0.022)	(0.021)	(0.021)	(0.022)
Party: Strong Rep.	0.005	$-0.041^*$	-0.025	$-0.048^*$
	(0.020)	(0.020)	(0.020)	(0.020)
Age: 31-50	0.001	-0.009	0.012	-0.018
	(0.017)	(0.017)	(0.016)	(0.017)
Age: 51-65	0.008	$-0.036^*$	0.012	-0.010
	(0.018)	(0.018)	(0.018)	(0.018)
Age: 65+	-0.018	-0.033	0.007	-0.029
	(0.021)	(0.021)	(0.021)	(0.021)
Race: Black	0.009	-0.007	0.010	0.004
	(0.018)	(0.018)	(0.019)	(0.018)
Race: Latino	0.027	0.014	-0.040	-0.026
	(0.027)	(0.028)	(0.027)	(0.028)
Race: Other	-0.048*	-0.029	$-0.055^*$	-0.039
	(0.024)	(0.024)	(0.024)	(0.025)
Female	0.018	-0.002	0.023	$0.038^*$
	(0.012)	(0.012)	(0.012)	(0.012)
College	0.006	0.001	0.000	0.002
	(0.013)	(0.013)	(0.012)	(0.013)
Income: Second Quartile	0.024	0.004	-0.016	0.010
	(0.017)	(0.017)	(0.017)	(0.017)
Income: Third Quartile	-0.015	-0.012	-0.025	-0.018
	(0.018)	(0.018)	(0.018)	(0.018)
Income: Fourth Quartile	-0.013	-0.016	-0.020	-0.006
	(0.019)	(0.019)	(0.019)	(0.019)
Looking for Work	-0.011	-0.023	-0.001	-0.007
	(0.020)	(0.020)	(0.020)	(0.020)
Homeowner	0.024	0.019	0.020	0.005
	(0.015)	(0.015)	(0.015)	(0.015)
Intercept	-0.006	$0.082^*$	0.048	0.033
	(0.037)	(0.037)	(0.037)	(0.038)

Table A-9: Partisanship – Factor: Investment and Taxes

	Attract new businesses	Stimulate existing companies	Encourage investment by charities
Party: Weak Dem.	0.019	0.016	-0.008
J	(0.017)	(0.018)	(0.018)
Party: Lean Dem.	0.017	$-0.007^{'}$	-0.001
J	(0.020)	(0.020)	(0.020)
Party: Independent	0.018	0.011	0.004
v I	(0.018)	(0.017)	(0.018)
Party: Lean Rep.	0.028	$0.035^{'}$	-0.021
v	(0.022)	(0.022)	(0.022)
Party: Weak Rep.	0.021	0.019	0.007
· -	(0.019)	(0.019)	(0.019)
Party: Strong Rep.	0.013	0.018	-0.010
-	(0.018)	(0.018)	(0.018)
Age: 31-50	0.025	0.026	0.012
	(0.015)	(0.015)	(0.015)
Age: 51-65	0.017	0.020	-0.012
	(0.016)	(0.016)	(0.016)
Age: 65+	0.032	0.006	-0.005
	(0.019)	(0.019)	(0.019)
Race: Black	-0.017	-0.007	-0.001
	(0.017)	(0.016)	(0.017)
Race: Latino	-0.012	-0.010	-0.032
	(0.025)	(0.025)	(0.025)
Race: Other	-0.021	-0.006	0.033
	(0.021)	(0.021)	(0.021)
Female	-0.013	-0.004	0.003
	(0.011)	(0.011)	(0.011)
College	$-0.022^*$	0.004	-0.012
	(0.011)	(0.011)	(0.011)
Income: Second Quartile	0.016	0.013	-0.008
	(0.015)	(0.015)	(0.015)
Income: Third Quartile	-0.014	0.010	-0.013
	(0.016)	(0.016)	(0.016)
Income: Fourth Quartile	-0.017	0.006	-0.020
	(0.017)	(0.017)	(0.017)
Looking for Work	-0.021	-0.003	-0.013
	(0.018)	(0.018)	(0.018)
Homeowner	0.005	-0.012	-0.001
	(0.013)	(0.013)	(0.013)
Intercept	$0.076^{*}$	0.039	0.050
	(0.033)	(0.033)	(0.034)

Table A-10: Partisanship – Factor: Governance

	Consolidate	More power
	local government	to the state
Party: Weak Dem.	-0.001	$0.031^*$
	(0.015)	(0.016)
Party: Lean Dem.	-0.023	-0.030
	(0.018)	(0.017)
Party: Independent	0.015	0.020
	(0.015)	(0.015)
Party: Lean Rep.	-0.001	0.009
	(0.019)	(0.019)
Party: Weak Rep.	-0.022	0.016
	(0.017)	(0.017)
Party: Strong Rep.	-0.003	0.023
	(0.016)	(0.016)
Age: 31-50	-0.013	-0.015
	(0.013)	(0.013)
Age: 51-65	-0.006	$-0.031^*$
	(0.014)	(0.014)
Age: 65+	0.001	$-0.040^*$
	(0.016)	(0.016)
Race: Black	0.013	$0.034^{*}$
	(0.014)	(0.014)
Race: Latino	-0.013	-0.004
	(0.021)	(0.021)
Race: Other	0.022	$0.038^*$
	(0.019)	(0.018)
Female	-0.013	-0.006
	(0.010)	(0.010)
College	0.022*	0.004
	(0.010)	(0.010)
Income: Second Quartile	0.005	0.007
	(0.013)	(0.013)
Income: Third Quartile	-0.012	-0.011
	(0.014)	(0.014)
Income: Fourth Quartile	-0.005	-0.018
T 1. A	(0.015)	(0.015)
Looking for Work	0.011	-0.000
	(0.016)	(0.015)
Homeowner	-0.003	0.003
_	(0.011)	(0.012)
Intercept	0.022	-0.018
	(0.029)	(0.029)

Table A-11: Partisanship – Factor: Workers and Entrepreneurship

-	Limit	Expand	Worker	Tax breaks
	unions' power	unions' power	training vouchers	to entrepreneurs
Party: Weak Dem.	-0.002	$-0.058^*$	$-0.040^{*}$	-0.017
	(0.019)	(0.020)	(0.019)	(0.019)
Party: Lean Dem.	0.009	-0.025	0.011	-0.012
	(0.022)	(0.023)	(0.022)	(0.022)
Party: Independent	$0.057^{*}$	$-0.052^*$	-0.015	-0.027
	(0.020)	(0.019)	(0.019)	(0.020)
Party: Lean Rep.	0.100*	$-0.086^*$	0.032	0.021
	(0.025)	(0.025)	(0.025)	(0.025)
Party: Weak Rep.	$0.065^{*}$	$-0.095^*$	-0.033	-0.007
	(0.021)	(0.022)	(0.021)	(0.021)
Party: Strong Rep.	$0.054^{*}$	$-0.139^*$	$-0.054^{*}$	-0.019
	(0.021)	(0.021)	(0.020)	(0.020)
Age: 31-50	-0.010	-0.007	0.013	0.003
	(0.017)	(0.017)	(0.016)	(0.017)
Age: 51-65	0.017	-0.016	$0.049^*$	0.020
	(0.018)	(0.018)	(0.018)	(0.018)
Age: 65+	-0.001	-0.026	0.033	0.026
	(0.021)	(0.021)	(0.020)	(0.021)
Race: Black	0.017	0.014	0.005	-0.004
	(0.018)	(0.018)	(0.018)	(0.018)
Race: Latino	-0.019	0.002	-0.027	-0.047
	(0.027)	(0.028)	(0.027)	(0.027)
Race: Other	0.008	-0.007	0.020	-0.004
	(0.024)	(0.025)	(0.024)	(0.024)
Female	0.007	0.011	0.007	-0.004
	(0.012)	(0.012)	(0.012)	(0.012)
College	0.004	-0.011	-0.018	-0.009
	(0.013)	(0.013)	(0.013)	(0.013)
Income: Second Quartile	-0.007	-0.016	$-0.043^*$	-0.029
	(0.017)	(0.017)	(0.017)	(0.017)
Income: Third Quartile	-0.021	-0.016	-0.034	-0.019
	(0.018)	(0.018)	(0.018)	(0.018)
Income: Fourth Quartile	-0.009	$-0.039^*$	$-0.051^*$	-0.012
	(0.019)	(0.019)	(0.019)	(0.019)
Looking for Work	-0.015	-0.029	0.009	-0.015
	(0.021)	(0.020)	(0.020)	(0.020)
Homeowner	0.011	0.010	0.017	0.002
	(0.015)	(0.014)	(0.015)	(0.015)
Intercept	-0.037	0.025	0.050	0.086*
	(0.037)	(0.037)	(0.038)	(0.037)

Table A-12: Partisanship – Factor: Local Services

	Affordable	Public	Public safety
	housing	transportation	and crime prevention
Party: Weak Dem.	-0.006	-0.015	0.027
J	(0.017)	(0.017)	(0.017)
Party: Lean Dem.	$0.031^{'}$	0.033	$0.052^{'*}$
·	(0.020)	(0.020)	(0.020)
Party: Independent	-0.024	-0.013	0.034
	(0.018)	(0.018)	(0.017)
Party: Lean Rep.	$-0.044^*$	$-0.044^{*}$	0.030
	(0.022)	(0.022)	(0.022)
Party: Weak Rep.	-0.029	-0.034	$0.055^{*}$
	(0.019)	(0.019)	(0.019)
Party: Strong Rep.	-0.029	-0.034	$0.061^{*}$
	(0.018)	(0.018)	(0.018)
Age: 31-50	0.013	0.018	$0.039^*$
	(0.015)	(0.015)	(0.015)
Age: 51-65	-0.004	-0.013	0.006
	(0.016)	(0.016)	(0.016)
Age: 65+	-0.011	0.015	0.036
	(0.019)	(0.019)	(0.019)
Race: Black	0.032	-0.001	0.021
	(0.017)	(0.017)	(0.016)
Race: Latino	0.011	$0.055^{*}$	0.027
	(0.025)	(0.025)	(0.024)
Race: Other	0.024	0.013	-0.021
	(0.021)	(0.021)	(0.022)
Female	0.028*	-0.009	$0.033^*$
	(0.011)	(0.011)	(0.011)
College	-0.004	0.018	0.006
	(0.011)	(0.011)	(0.011)
Income: Second Quartile	-0.001	0.000	0.027
	(0.015)	(0.015)	(0.015)
Income: Third Quartile	-0.014	0.001	0.002
	(0.016)	(0.016)	(0.016)
Income: Fourth Quartile	-0.024	0.020	0.007
	(0.017)	(0.017)	(0.017)
Looking for Work	-0.012	-0.016	0.003
	(0.018)	(0.018)	(0.018)
Homeowner	$-0.030^*$	$-0.029^*$	0.009
_	(0.013)	(0.013)	(0.013)
Intercept	0.076*	0.019	-0.032
	(0.033)	(0.034)	(0.033)