Deferring, Deliberating, or Dodging Review

EXPLAINING COUNTERJUDGE SUCCESS IN THE US COURTS OF APPEALS

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ABSTRACT

While panel effects—instances in which panel composition affects the votes cast by judges—have been widely documented, scholars are unsure why these patterns persist. We outline three possible mechanisms, acquiescence, deliberation, and strategy, through which panel effects might occur; develop indicators for each; and test them using a data set of search and seizure cases decided by the US courts of appeals between 1953 and 2010. Our analysis provides some evidence that counterjudge success stems from a combination of all three theories, although strategic considerations have the substantively strongest and most consistent effects.

Judges on collegial, multimember courts decide cases in small groups, and the case outcomes often vary from those we would anticipate if a judge was acting alone (see Cross and Tiller 1998; Kim 2009). In these small-group settings, individual judges' votes often differ based on the identity of the other judges hearing a particular case. This phenomenon has been dubbed "panel effects." Scholars have noted their presence in terms of judges' partisanship (e.g., Cross and Tiller 1998; Sunstein et al. 2006; Beim and Kastellec 2014), gender (e.g., Farhang and Wawro 2004; Peresie 2005; Boyd, Epstein, and Martin 2010), and race (e.g., Cox and Miles 2008; Kastellec 2013).

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Panel effects are substantively important. For example, Sunstein, Schkade, and Ellman (2004) note that Republican judges vote to uphold an affirmative action program only 37% of the time when sitting on a unified panel, but they vote to uphold such a program 49% of the time when they hold a panel majority but there is also one Democratic appointee sitting on the panel with them. Thus, so-called counterjudges—the Democratic judge in this example—can be successful in spite of being outnumbered.

When are counterjudges outnumbered but not outvoted? Existing explanations for panel effects can generally be organized into three categories. First, explanations focused on acquiescence suggest that panel effects occur because judges defer to other panel members (and, by extension, suppress their dissenting views) in order to lower their workload and avoid raising the ire of other panel members (e.g., Fischman 2015). Second, deliberative explanations suggest that panel members do not suppress their disagreement; rather, their dialogue leads to genuine consensus (e.g., Edwards 2003). Finally, strategic explanations suggest that panel effects result from judges' attention to external actors. Judges vote strategically to dodge review by a higher court (e.g., Cross and Tiller 1998). ¹

These explanations have generally been developed and tested individually (but see Kim 2009; Fischman 2015). This is due, in large part, to numerous data and methodological limitations that make it difficult to disentangle these competing explanations. As a result, while there can be little doubt that panel effects exist, our understanding of why counterjudges win remains murky. The complexity of the problem indicates that further research should be done considering the various theorized mechanisms together, as well as considering the problem from different angles, such as focusing on the elements related to counterjudge success.

To this end, we derive indicators of each theory of panel effects and present a test of competing explanations. By capturing the varying position of the counterjudge vis-à-vis her fellow panel members, we can parse the factors that are associated with counterjudge success. To do so, we rely on a data set of published search and seizure opinions decided in the US courts of appeals from 1953 to 2010 and focus on the dynamics between panel majorities and counterjudges on split panels. Search and seizure cases provide the opportunity to consider panel effects in the types of cases that court of appeals judges spend a fair amount of their time deciding (see Klein 2002, 68). Our results provide some evidence for all three explanations playing some role in counterjudge success, but the evidence most consistently supports the importance of strategy.

The results have important implications for our understanding of both appellate decision making and group decision making more broadly, as well as helping set the stage for further research. First, while most studies try to document whether panel effects exist (e.g.,

^{1.} The use of labels to describe these theories varies in the literature and is sometimes inconsistent. We use the terms "strategy" and "strategic" to refer to theories that focus on the influence of external across

^{2.} The exact nature of panel effects can vary by issue area.

Sunstein et al. 2006; Boyd et al. 2010), we examine the circumstances under which outcomes favor the partisan minority. Our results demonstrate the importance of the judicial hierarchy, especially the ideological configuration at its three levels, in shaping counterjudge success. Second, these findings reveal that rules regarding panel assignment and life tenure affect both the decisions that court of appeals panels make and the likelihood of decisions that vary from the ideological preferences of panel majorities. As legislative bodies begin to devote more scrutiny to the procedures and operation of appellate courts, our findings have scholarly as well as practical implications. Third, policies of all types are formulated by small groups. By illuminating the factors that lead policy-making bodies to make unexpected decisions, our results have implications for understanding group decision making beyond courthouse walls. Finally, this work highlights the importance of continuing to investigate the mechanisms behind panel effects, which appear to be complex, nuanced, and multifaceted. Additional work probing the extent to which the three dominant theories of group decision making account for the outcomes we observe should be done to leverage various aspects of such decisions while accounting for issue-specific considerations.

THE NATURE AND SIZE OF PANEL EFFECTS

Three-judge panels establish the vast majority of law in the US courts of appeals. Judges' panel assignments rotate regularly, changing the three-judge groupings that decide cases (Levy 2017). Sometimes a judge will sit with two like-minded colleagues, while other cases are resolved by panel members who have heterogeneous ideological preferences. Panels are assigned administratively, and judges do not get to choose the members of their panel, reducing concerns about endogeneity between panel assignment practices and observed outcomes. Together, the use of panels to resolve cases and the administrative assignment of judges to panels create variation in the groups of judges that resolve cases. And this variation matters. Scholars have frequently documented panel effects in judicial decision making. Panels resolve cases by majority rule, yet empirical results consistently reveal patterns at odds with what the median voter theorem would predict (Kastellec 2007). A single judge can affect both case outcomes and opinion content (Hinkle 2017).

These effects are substantively important in size. Sunstein et al. (2006), for example, examine the presence of panel effects based on judicial partisanship in 23 issue areas.³ Across all issue areas, panels with a Republican counterjudge resolved 10% fewer cases in a liberal direction than panels comprising three Democrats. The effects for a Democratic counterjudge were smaller, with 5% more cases resolved in a liberal direction when a single Democrat was on a three-judge panel compared to an all-Republican panel. Epstein, Landes, and Posner (2013) update these data to 2008. They report that the presence of a

^{3.} The time span for each issue in Sunstein et al.'s investigation varies; generally, the data end in 2002 and begin in the mid-1990s. Some issues areas, such as campaign finance, action, and takings cases, begin about 2 decades earlier.

Democratic counterjudge decreases the probability of a conservative vote by 0.06; the presence of a Republican counterjudge increases that probability by 0.08. That the presence of a counterjudge can affect the outcome of between 1 in 10 and 1 in 20 cases suggests that panel effects play an important role in the development of American jurisprudence.

Both Sunstein et al. (2006) and Epstein et al. (2013) note that the presence and magnitude of panel effects vary by issue area. While some of the issues in Sunstein et al.'s study, such as affirmative action, sex and race discrimination, and First Amendment cases, have marked panel effects, other issues, like abortion, takings, and federalism cases, yield no statistically significant panel effects. This is not an isolated finding; many studies report results that vary widely by issue (e.g., Boyd et al. 2010).

Panel effects emerge along characteristics other than partisanship in certain types of cases, as well. First, in a recent and rigorous article, Boyd et al. (2010) examine the presence of panel effects by gender. They find the probability that a male judge votes for a sex discrimination plaintiff increases between 12% and 14% when there is a female judge on the panel. However, they find no analogous effects in the other 12 issue areas they analyze. They attribute this unique effect to an informational advantage available to panels with a female judge; when deciding cases in areas like sex discrimination, a female judge on a panel provides additional information to its other members that can sway their votes. Second, in another leading article, Kastellec (2013) examines the effect of a counterjudge on the propensity of nonblack colleagues to uphold affirmative action programs from 1971 to 2008. He finds that the probability that a nonblack judge will vote to uphold an affirmative action program increases from about 50% when sitting with two nonblack colleagues to about 80% when there is a black judge on the panel. Thus, the effects of a female or black counterjudge seem to be greater than those involving judicial partisanship. However, these effects are seemingly present only in the sliver of the caseload directly implicating the counterjudge's identity.

EXPLANATIONS FOR PANEL EFFECTS

Scholars have offered three major explanations for the presence of panel effects. First, panel effects might result from acquiescence: judges feel pressured to produce unanimous decisions, perhaps owing to a norm of consensus (e.g., Goldman 1968; Posner 2008; Epstein, Landes, and Posner 2011; Fischman 2011). As a result, even a judge who disagrees with the majority outcome in a case may suppress her dissent to preserve the air of unanimity. Under this explanation, a norm of consensus leads to dissent aversion. The benefits of avoiding a dissent are magnified by the costs associated with dissenting, including the time and effort required for opinion writing and the harm to collegiality (see Howard 1981; Cross and Tiller 1998; Caminker 1999; Cameron, Segal, and Songer 2000; Kastellec 2007; Posner 2008; Carrubba and Clark 2012; Epstein et al. 2013) and the court's legitimacy (see Atkins and Green 1976; Ginsburg 1990; Farhang and Wawro 2004; Hettinger, Lindquist, and Martinek 2006; Kim 2009). Relatedly, Sunstein et al. (2006, 15, citing Asch 1984) note psychological research indicating that conformity pressures

can arise because an individual determines that "it is not worthwhile to dissent in public." Regardless of the source, scholars asserting an acquiescent mechanism for panel effects focus on internal pressures within the panel.

While acquiescent explanations generally focus on the pressures faced by a potential dissenter, a norm of consensus could also affect the behavior of panel majorities (see Epstein et al. 2013, 192-93; cf. Kim 2009). First, dissents increase the costs for majorities because they must expend time and effort to respond to counterarguments (see Corley and Ward 2012) and change the issues discussed (Rice 2017; see also De Mesquita and Stephenson 2002; Lax 2007; Posner 2008; Epstein et al. 2013). As a result, majorities may, under some circumstances, be willing to make some significant accommodations regarding an opinion to avoid a dissent. Second, when the members of the panel majority have less intense preferences about the outcome of a case, pressures to avoid dissent may result in panel effects (Epstein et al. 2011). Finally, a norm of consensus aimed at maintaining legitimacy should influence majorities as well as minorities; all judges have an incentive to keep their institution in the public's esteem (Rasmusen 1994).

Second, scholars argue that deliberation among judges can alter outcomes (Edwards 1998, 2003; Caminker 1999; Wald 1999; Kim 2009; Spitzer and Talley 2013). Generally, these deliberative accounts focus on the role of the exchange of information and posit that panel effects result from the good-faith dialogue fostered by the variety in perspectives on a diverse panel. 5 Boyd et al. (2010), for example, suggest that gender-based panel effects occur in sex discrimination cases because female judges provide valuable information to their male colleagues that changes their views and is absent on all-male panels. In another vein, Spitzer and Talley (2013) offer a model of panel effects that focuses on the unique pressure felt by a judge in the minority to collect and disseminate information that supports her position. In short, deliberative approaches theorize that panel effects result from judges changing their minds in the presence of new information and perspectives (Edwards 1998).

Finally, scholars have offered a third strategic explanation: panel effects result from majorities capitulating to counterjudges to avoid external review by the circuit sitting en banc or the Supreme Court (Cross and Tiller 1998; Kastellec 2011; Beim, Hirsch, and Kastellec 2014, 2016). When dissent makes review more likely, panel majorities are more likely to take steps to prevent a dissent from being written, perhaps leading the panel majority to capitulate to the counterjudge (Hazelton, Hinkle, and Jeon 2016). The most prominent strategic theory—whistleblower theory—suggests that majorities may decide

^{4.} Fischman has implicitly embraced a view that the norm of consensus influences majorities in some but not all (see Fischman 2011) of his work: Fischman (2015) modeled all votes as having equal influence on each other, while in Fischman (2008) he estimated an effect on both the majority and minority.

^{5.} Deliberation is distinct from acquiescent accounts. Acquiescent accounts emphasize the suppression of public dissent. Deliberative theories, by contrast, suggest that panel effects result from sincere preference change (see Edwards 2003).

cases in ways that are at odds with their ideological preferences when the panel includes a counterjudge who is ideologically aligned with a reviewing court and could use a dissent to signal noncompliance to that court (Cross and Tiller 1998; Kim 2009; Kastellec 2011; Beim et al. 2014, 2016).

There have been a few previous studies that considered competing theories of panel effects (Atkins 1973; Kim 2009; Fischman 2015), although none of these studies offered measures of acquiescent, deliberative, and strategic influences together. Many questions remain regarding the role each type of effect plays in shaping outcomes (see Kim 2009; Fischman 2015). Our goal is to examine the effect that indicators of each theory have on the probability that a counterjudge is successful.

MEASURING THE MECHANISMS

Acquiescence

Acquiescence theories implicate future interactions among judges: if you upset your colleague by violating a norm of consensus, it is likely to make further exchanges with that colleague, whether they be social or professional, more difficult. The more the panel majority anticipates having to work with a counterjudge in the future, the more utility they receive from complying with the norm of consensus. This idea relates favorably to the influence of anticipated future interactions in game theory (see, e.g., Heide and Miner 1992).

Total future interactions are a function of (a) how long the counterjudge remains on the bench and (b) how often two judges interact. As a judge considers whether to bow to the wishes of a counterjudge, he does not definitively know how long that judge will remain his colleague and on how many future panels they will serve together. But the two judges do know each other's age, which is strongly predictive of when a circuit judge will leave the bench. As counterjudges get older, their success rate may diminish as their colleagues begin to increasingly anticipate their departure from the bench. Additionally, a counterjudge who has already taken on senior status may pose less of a concern since senior judges are generally excluded from en banc cases and may take on reduced caseloads.

The second factor—how often judges interact—is, in part, a function of geographic location and circuit size in combination with the three-judge panel structure. Judges are likely to anticipate more exchanges with a judge when they serve in a small circuit because they are more likely to sit with each other on panels. All circuits resolve cases in three-judge panels, but judges in smaller circuits have a higher probability of sitting

^{6.} For all circuit judges born after 1800 who are no longer on the bench, age predicts 87% of the variation in when they leave the bench.

^{7.} We considered two alternative indicators for quantifying the length of future interactions. The number of years until retirement eligibility is not a good indicator of future service because so many federal judges continue to hear cases as senior judges: in our data, 22% of votes were cast by senior judges, and more panels than not contained at least one senior judge. The number of years until a counterjudge actually left the bench through full retirement or death is problematic because 40% of judges in our data are still serving. Calculating expected age of death or full retirement for a subset of judges would introduce asymmetrical uncertainty into the analysis.

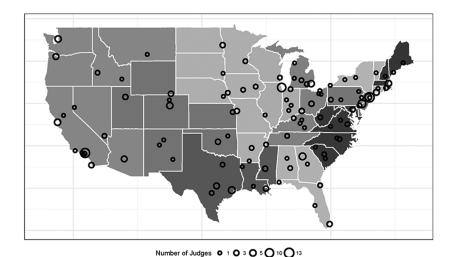


Figure 1. Location of US courts of appeals chambers in 2010. Color version available as an online enhancement.

with a particular colleague on any given panel. The probability of sitting with another judge on a panel is not a linear relationship with panel size but can be estimated using combinatorics.8 For example, a judge in a 6-person circuit will sit with each other colleague in an estimated 40% of cases. That number drops to 22% in a 10-person circuit and 15% in a circuit with 14 judges.

Geographic location also affects the frequency of interaction between two judges. Unlike judges on the US Supreme Court or most state high courts, judges in most of the US courts of appeals are geographically dispersed during the majority of their work, only coming together at various times throughout the year to hear oral argument. Figure 1 shows the geographic dispersion of the home chambers of such judges at one particular point in time, 2010 (the most recent year in our data), as well as the variation in the number of judges in each city. When the judges in the panel majority have their primary chambers in the same city (which typically also means the same building) as the counterjudge, they may naturally anticipate a greater number of future interactions. Conversely, judges may expect very little in the way of future dealings with a counterjudge sitting by designation from either another circuit or a district court.

Deliberation

Deliberative theories emphasize the interactions generated by judges' relationships with one another and the unique information each judge brings to the table. Deliberative panel

^{8.} Where *N* is the number of active judges: Pr(Future Panel) = (N-2)/[(N-1)/2].

^{9.} We present the distribution at a single point in time to illustrate how many judges work in the same city at the same time, rather than in different eras. The DC Circuit's judges all (by definition) work in the same city.

effects are therefore based on judges' present interactions, past interactions, and expertise. First, just as with future interaction, the total amount of past interaction is a function of the number of years over which two judges interact and the frequency of interaction during that time. The longer two judges have served together, the more likely they are to have met each other, served on administrative committees together, and decided cases on panels together. Judges with higher levels of past contact are more likely to know each other's perspectives and preferences, enhancing their ability to make persuasive arguments in the course of deliberations (see Edwards 2003; Baum 2006; Hazelton, Hinkle, and Nelson 2017). Fortunately, unlike the years of anticipated future interaction, counting the number of years judges have served together on the circuit in the past is straightforward.¹⁰

Frequency of past interaction also affects the ability of judges to deliberate effectively. Judges from smaller circuits have served on a greater proportion of past panels with each of their colleagues, giving them increased opportunities to learn what types of arguments are likely to persuade their circuit colleagues. Likewise, the presence of two judges in the same city affects deliberative power. Judges who see each other often—even in social settings—build relationships and learn about their colleagues' likes and dislikes in ways that can be helpful when they deliberate (see, e.g., Lee et al. 2011). Moreover, close physical proximity creates opportunities to discuss a case in person, enhancing a case's deliberative environment. Cohen (2002, 157) quotes a Ninth Circuit judge: I think that if you are in proximity to the other judges, I think it does encourage a bit more of an interaction. . . . I think, frankly, on working through a point, it is very helpful to sit down with one other judges—to go into the other judge's chambers, sit down, and try to work through it." While there are certainly limits on face-to-face deliberation, Cohen's interviewee ties close physical proximity directly to an enhanced deliberative environment.

Counterjudges' status and information may also influence their deliberative success. Judges sitting by designation may not be as effective at persuading their panel colleagues as a result of either not knowing them as well or not being held in as high esteem. In particular, district judges sitting by designation may be at a particular disadvantage in terms of persuasive ability compared to circuit judges from another circuit because district judges do not have regular experience judging in a collegial environment.

The literature on race- and gender-based panel effects often points to the unique perspective, information, and experiences a lone woman or minority member can bring to a panel deciding a matter in which such characteristics are salient (see, e.g., Boyd et al. 2010; Kastellec 2013). A similar account applies in terms of an ideologically defined

^{10.} Cotenure and age are separate concepts; their correlation is only 0.18.

^{11.} Being in the same city also makes it more likely that two judges' respective clerks have personal interactions that would provide an additional forum for informal deliberation.

^{12.} For example, circuit judges are busy, and there is a strong norm that all panel members are included in all case discussions (Wasby 1988).

counterjudge. If panel effects are driven by the counterjudge's role in deliberation, then judges who have unique information or experience to bring to the table should have a larger influence. A counterjudge with relevant professional experience may have information and a perspective that gives her a more persuasive voice. Within the legal profession, law school prestige is very influential (see Redding 2003). This influence can be seen in the selection of judges (see Slotnick, Goldman, and Schiavoni 2015). Such prestige is likely associated with graduate quality but may also reflect bias and networks. Klein and Morrisroe (1999) identify 25 of the most prestigious and influential circuit judges from 1989 to 1991. More than two-thirds of the judges on that list attended elite law schools, a credential possessed by less than half of circuit judges across the board. Thus, there is reason to believe that a counterjudge with an elite law school pedigree may exert greater influence.

Overall, experience on the bench should also play a role in deliberative effectiveness. There is evidence that new judges behave differently from more experienced judges and may defer to those judges with more experience (e.g., Hettinger, Lindquist, and Martinek 2003). Thus, relative experience may influence outcomes. When counterjudges have served on the circuit longer than any other panel member, that experience should lend them greater influence over deliberations.¹³ Conversely, when counterjudges are the least experienced members of the panel, they should have the least influence over deliberations.

Disentangling deliberative panel effects from those caused by acquiescence is difficult. Our strategy for this task hinges on distinguishing between anticipated future interactions on the one hand and past and current interactions and expertise on the other. This is admittedly complicated by the reality that some of the indicators we examine simultaneously reflect both theories. For example, judges from the same city have interacted more in the past, can discuss a given case more readily, and anticipate interacting more in the future. Similarly, judges with a higher probability of future panel service generally anticipate more future interactions, but they are also likely to have more past interactions. Finally, consider those counterjudges sitting by designation. These judges may have less influence over deliberations because other judges are less willing to listen to a judge from another court, or the panel majority may be less worried about the norm of consensus when dealing with a judge they do not anticipate working with in the future.

Strategy

According to strategic explanations, majorities capitulate to counterjudges because they anticipate review by higher courts. The desire to avoid review (and potential reversal) leads members of panel majorities to succumb to the counterjudge's preferences in those situations

^{13.} The most senior active judge wields the opinion-assigning power (Tillman and Hinkle 2018). One might be concerned that this variable is capturing the assignment power. However, more than half of our panels include a senior-status judge, so identifying the longest-serving judge on the panel is not coextensive with identifying the judge with opinion-assigning power. There is no evidence in our data that opinion-assignment power influences counterjudge success.

in which acting ideologically is most likely to trigger review (Kim 2009; Kastellec 2011). Further review is more likely when a panel majority is ideologically distant from the reviewing court (e.g., Black and Owens 2009; Beim et al. 2016). Under these conditions, the presence of a dissenting opinion increases the probability of review even more (George 1999; Black and Owens 2009; Beim et al. 2016). As a result, a strategic panel majority will be more likely to defer to the counterjudge as the panel majority becomes more distant from either potential reviewing court (the full circuit en banc or the Supreme Court).

We extend previous tests of the strategic explanation for panel effects by taking the full judicial hierarchy into account. While strategic explanations suggest that panel majorities try to reduce the probability of review, a dissenting opinion is not the only factor that affects that likelihood. In their seminal work on agenda setting in the Supreme Court, Tanenhaus et al. (1963) argue that any type of dissensus in the lower courts, including a reversal of the trial court, increases the probability of review. More recent work has parsed the effects of lower court reversal and dissent, showing that both factors predict both justices' votes on certiorari petitions (Black and Owens 2009; Black and Boyd 2010, 2013) and the cases placed on the discuss list (Caldeira and Wright 1990). Likewise, George (1999) shows that both reversal and dissent also significantly increase the probability of the full circuit granting en banc review. This puts counterjudges who are ideologically aligned with the lower court ruling in a particularly strong position. If they do not obtain their desired result, not only may they trigger a higher probability of review by writing a dissent, but the fact that the majority reversed the lower court would increase the probability of review even more.

However, an important caveat is required when exploring the advantage a counterjudge gets from being aligned with the lower court ruling. Circuit courts generally tend to affirm cases for a variety of procedural and institutional reasons (e.g., Kim 2009). Even when the lower court ruling is liberal, a conservative circuit panel is more likely than not to affirm that ruling regardless of the presence of a counterjudge. Therefore, we must carefully distinguish between the background tendency to affirm and strategic ceding to a counterjudge who is aligned with the lower court by the majority members of a split panel. To do so, we focus on the interaction between the distance to the potential reviewing courts and the counterjudge's alignment with the lower court. If panel majorities respond more dramatically to the position of the potential reviewing court when counterjudges are aligned with the lower court ruling compared to when they are not aligned, that difference between effect sizes reflects the strategic impact of the lower court ruling. Table 1 summarizes each of our indicators, the theory (or theories) with which they are associated, and our directional expectations for their relationship between the indicator and the counterjudge's success.

DATA AND RESEARCH DESIGN

The US courts of appeals resolve a prodigious number of cases each year. We utilize a database of all published Fourth Amendment search and seizure opinions from 1953 to

Table 1. Summary of Hypotheses

	Acquiescence	Deliberation	Strategy
Age	_		
Senior Status	_		
Pr(Future Panel)	+	+	
Same City as Other Panel Judge(s)	+	+	
Sitting by Designation: Circuit	_	_	
Sitting by Designation: District	_	_	
Cotenure with Other Panel Judges		+	
Subject Expertise		+	
Elite Law School		+	
Longest Tenure on Panel		+	
Shortest Tenure on Panel		_	
Ideological Distance: Panel to Circuit			+
Ideological Distance: Panel to SCOTUS			+
CJ Aligned with Ruling below × Panel Distance to Circuit			+
CJ Aligned with Ruling below × Panel Distance to SCOTUS			+

Note.—Hypothesized impact of each indicator on the probability that the case outcome will reflect the counterjudge's (CJ) ideology. SCOTUS = Supreme Court of the United States.

2010.14 This topic incorporates a discrete set of legal issues that are routinely raised in litigation within the context of both civil and criminal cases. Of course, the decision to examine a single issue area across several decades raises important research design considerations. A single-issue study has many benefits: it reduces case heterogeneity, limits the number of cases to a reasonable amount of data collection, and increases variation in factors that change over time. Because of variation in legal methodologies and circumstances, analyzing judicial decision making within issue areas can be particularly important in understanding the forces at play (see Friedman and Martin 2011). At the same time, any single-issue study necessarily raises concerns about generalizability.

We selected search and seizure cases for a number of reasons. First, these cases are considered bread-and-butter cases for court of appeals judges (see Klein 2002, 68); the familiarity of circuit judges with these types of cases helps reduce potential confounding factors related to specialized areas of law or unfamiliar types of cases. 15 At the same time, this ubiquity reduces the amount of specialized expertise any counterjudge can bring to the table. Second, search and seizure cases present a rigorous test case for probing panel effects. Existing studies have suggested that partisan panel effects are not particularly prominent in criminal law (see Sunstein et al. 2006; Fischman 2015). 16 Third, search and seizure cases

^{14.} Unpublished opinions are excluded because they typically involve clear-cut legal questions and are not readily available for the time span covered here (Sunstein et al. 2006).

^{15.} Additionally, as described later on, we control for the possibility of specialized expertise in such

^{16.} Although search and seizure issues can be raised in civil litigation as well, nearly three-quarters of our cases are from criminal proceedings.

represent a sizable portion of federal courts of appeals' dockets (Klein 2002, 68), providing more statistical power than many other issue areas. Fourth, insights regarding search and seizure cases have been found to generalize well in many circumstances to other issue areas (see Segal 1984; Wahlbeck 1997; Segal and Spaeth 2002; Bartels 2009). Finally, Friedman and Martin (2011) theorize that precedent is more likely to be stable in criminal matters than in some other areas of law, owing to the need for notice to criminal defendants. Thus, search and seizure provides an issue area that tends to represent everyday decisions by court of appeals judges in numbers that are more likely to allow us to test various mechanisms that may explain general panel effect phenomena. We look forward to future studies probing the generalizability or differential application of these mechanisms across issue areas, and we discuss in the conclusion some ways in which counterjudge success might vary by issue area.

We identify relevant cases by using Lexis to locate all published circuit opinions that cite the Fourth Amendment of the US Constitution.¹⁷ We exclude all opinions that do not address the merits or were resolved by only two judges. In 16% of the cases, the circuit reversed in part and affirmed in part, producing a split outcome. Since these cases cannot be definitively coded as reaching a conservative or liberal outcome, we exclude them from our analysis.¹⁸ The resulting data set contains 12,649 opinions in panel cases.

In the larger data set of search and seizure cases, the panel effects often observed in other work emerge here as well. Simple summary statistics illustrate this point (although the same patterns emerge in more sophisticated regression models as well). Unified panels issue a ruling contrary to their ideology in only 32% of cases, but split panels do so in 43% of cases. Examining all types of panels, panel majorities ruled against their own preference in 11% more cases when there was a counterjudge compared to when the panel was unified. Within our data set, we estimate that 979 cases would have been decided differently if split panels issued counterideological rulings at the same rate as unified panels.

While it is reassuring to find evidence of panel effects in our larger data set in keeping with overall trends found in the existing literature, our focus is on exploring the source of this well-established pattern. To do so, we turn our attention exclusively to the cases in which those panel effects emerge: split panel cases. This allows us to consider specific mechanisms that drive panel majorities to bend to the preferences of counterjudges. Just under 30% of the cases in this data set were resolved by unified panels. We exclude those data to examine the role of the counterjudge in split panel cases. The unit of analysis is the case. Our outcome variable is whether the case is resolved consistently with the ideology of

^{17.} We exclude subject-specific courts like the federal circuit.

^{18.} Split outcomes are not significantly more likely when the panel is split ideologically compared to when it is unified. In both situations, 16% of cases are affirmed in part and reversed in part.

^{19.} This effect size is in keeping with previously reported effects. For example, Epstein et al. (2013) report that the presence of a counterjudge increases the probability of a counterideological vote by between 0.06 and 0.08. Similarly, Sunstein et al. (2006) estimated such an effect at between 0.05 and 0.10.

the counterjudge. ²⁰ The outcome variable equals 1 if a Democratic panel with a Republican counterjudge reaches a conservative outcome or if a Republican panel with a Democratic counterjudge reaches a liberal outcome and 0 otherwise. Since this is a binary variable and we are focused on characteristics of the judges, we use a probit model (see Fischman 2015).

Using information from the text of opinions in our data set as well as information on judges from the Federal Judicial Center Biographical Database, we generate each of the variables discussed in the previous section. Table 2 lists all of these variables and describes the particulars of how each is calculated as well as its minimum and maximum values.²¹

Although this analysis examines only cases that raise search and seizure issues, there is still important variation across cases that might be associated with acquiescence, deliberation, or strategy and must therefore be included in the model to combat omitted-variable bias. We control for the filing of amicus briefs in the case as an indicator of particularly important cases. We also include whether a particular case is a civil case (rather than a criminal case or a habeas petition). In addition, cases with more clear-cut legal issues may lead to panel majorities ruling against their own ideological preferences simply because the law requires it. In order to account for this, we control for whether an opinion is issued per curiam since such opinions are typically used in more straightforward cases. Owing to the lengthy time frame of our data, we also include a control for key variation in Supreme Court jurisprudence over time. We include an indicator variable to distinguish cases that occurred after the key shift in the Supreme Court's search and seizure jurisprudence documented by Kritzer and Richards (2005). This change in jurisprudence was the result of six key cases that were decided between 1983 and 1984. Thus, we also include a variable

^{20.} Our analysis of outcomes that are consistent with the counterjudge's preferences is novel in studies of panel effects, although Kim (2009) used a related approach when she analyzed individual counterideological votes. Additionally, some scholars have analyzed independent variables regarding ideological consistency (e.g., Cross and Tiller 1998; Beim and Kastellec 2014). Moreover, our approach leads us to take advantage of relatively unique explanatory variables. But related analyses do exist. For example, Kastellec (2013) controlled for judge age in a model of votes to uphold affirmative action programs. He found no significant effects. Relatedly, Epstein et al. (2013) did not find a significant effect for tenure on the likelihood of a conservative vote. Also, several articles include variables capturing the professional experiences of a voting judge (e.g., Peresie 2005; Fischman 2015), although such variables were generally not significant. Furthermore, Kim (2009) leveraged ideological distances when she constructed her variables regarding alignment between counterjudges and higher courts; she found a difference in predicted probability of 0.12 where the counterjudge was aligned with the en banc panel. Her findings are generally in keeping with other studies that included variables regarding alignment (e.g., Kastellec 2011; Beim et al. 2014), as well as related work on whistleblowing that finds a staggering 51% chance that a decision will be reviewed if it is from a maximally distant panel and accompanied by a dissent (Beim et al. 2016). It should also be noted that control variables for the direction of the lower court decision are relatively common in such studies (e.g., Boyd et al. 2010; Beim and Kastellec 2014).

^{21.} Although we do not theorize that the direct effect of CJ Aligned with Ruling Below is associated with strategic deference to counterjudges, we include it in the model as a control because it is a constituent term of the multiplicative interactions.

Table 2. Variable Descriptions

Variable	Min	Max	Operationalization
Age	38	93	Age of the counterjudge
Senior Status	0	1	Equals 1 when the counterjudge has taken senior status
Pr(Future Panel)	0	1	Probability that two judges will serve together on any given panel in the relevant circuit and year
Same City as Other Panel Judge(s)	0	2	Number of panel-majority judges with chambers in the counterjudge's city
Sitting by Designation: Circuit	0	1	Equals 1 when the counterjudge is from another circuit sitting by designation
Sitting by Designation: District	0	1	Equals 1 when the counterjudge is a district court judge sitting by designation
Cotenure with Other Panel Judges	0	49	The sum total of years the counterjudge has served on the circuit with the other two panel judges
Subject Expertise	0	1	Equals 1 when the counterjudge was a former prosecutor or public defender
Elite Law School	0	1	Equals 1 when the counterjudge went to a top-14 law school (Hinkle et al. 2012)
Longest Tenure on Panel	0	1	Equals 1 when the counterjudge is the longest-serving judge on the panel
Shortest Tenure on Panel	0	1	Equals 1 when the counterjudge is the shortest-serving judge on the panel
Ideological Distance: Panel to Circuit	0	1.1	Ideological distance between the Judicial Common Space scores for the panel median and the circuit median
Ideological Distance: Panel to SCOTUS	0	.9	Ideological distance between the Judicial Common Space scores for the panel median and the Supreme Court median
CJ Aligned with Ruling Below	0	1	Equals 1 when the counterjudge and the ruling below are both conservative or both liberal

Note.—CJ = counterjudge; SCOTUS = Supreme Court of the United States.

for whether the case was decided after 1984.²² Finally, we include circuit fixed effects in our model.²³

RESULTS

Individual Predictors of Counterjudge Success

Table 3 presents the results of our model.²⁴ Because we are testing multiple hypotheses using several explanatory variables each, we report Bonferroni-adjusted *p*-values.²⁵ When

^{22.} An important caveat is that email came into usage among federal judges at a very similar time to this jurisprudential shift (see Wasby 1988). Consequently, it is conceivable that variation explained by this variable may also be due to changes in the form of communication.

^{23.} When circuit fixed effects are excluded from the model, none of the variables gain or lose statistical significance.

^{24.} These results are robust (see table 5; appendix tables 5 and 6 are available online) to the inclusion of controls for circuit dissent rate, caseload, the subject matter expertise of the panel majority, and whether the members of the majority attended elite law schools, whether added individually or as a group. The coefficient for age is no longer significant if age squared is added to the model, individually or in concert with other possible controls, but the other effects are robust to its inclusion.

^{25.} Standard *p*-values are also presented for comparison, but our discussion references the adjusted *p*-values. We report both to allow readers to make comparisons to other published work. Additionally,

Table 3. Probit Regression Estimates

	Coefficient	SE	<i>p</i> -Value	Adjusted p-Value
Acquiescence:				
Age	008*	.002	<.001	.008
Senior Status	.023	.049	.635	>.999
Acquiescence or Deliberation:				
Pr(Future Panel)	119	.196	.543	>.999
Same City as Other Panel Judge(s)	001	.029	.978	>.999
Sitting by Designation: Circuit	094	.146	.518	>.999
Sitting by Designation: District	012	.073	.866	>.999
Deliberation:				
Cotenure with Other Panel Judges	.008*	.002	<.001	.001
Subject Expertise	.044	.036	.225	>.999
Elite Law School	.073	.032	.023	.466
Longest Tenure on Panel	044	.041	.285	>.999
Shortest Tenure on Panel	011	.040	.779	>.999
Strategy:				
CJ Aligned with Ruling Below ^a	1.063*	.058	<.001	<.001
Ideological Distance: Panel to Circuit	.206	.111	.063	.751
Ideological Distance: Panel to SCOTUS	.572*	.147	<.001	.002
Alignment × Ideological Distance to Circuit	.300	.153	.050	>.999
Alignment × Ideological Distance to SCOTUS	.215	.204	.291	>.999
Control:				
Amicus Participation	025	.093	.787	>.999
Civil Case	.032	.034	.360	>.999
Per Curiam	.043	.052	.406	>.999
Year > 1984	269*	.037	<.001	<.001
Intercept	387	.151	.011	

Note.—Probit regression estimates of the effect of counterjudge (CJ), circuit, and case characteristics on whether a panel resolves the case in a manner consistent with the CJ's ideologically preferred outcome. SCOTUS = Supreme Court of the United States. The model includes circuit fixed effects that are not shown. N = 8,902; proportional reduction in error = 39.82%; Akaike information criterion = 9,955.13; Bayesian information criterion = 10,182.14.

looking at the many predictors individually, only three—one for each theory—emerge as statistically significant. 26 Age is the only indicator of acquiescence that is statistically significant. Moving age from its 25% value to its 75% value is associated with a 2.8% decrease in the probability of counterjudge success. Furthermore, the significance of Cotenure suggests the operation of deliberation. Counterjudges with greater past experience with the majority judges tend to be more successful. A change in Cotenure from the 25% value to its 75% value corresponds to a 2.4% increase in the probability a counterjudge will

there are controversies in multiple disciplines regarding the use of such corrections, due in part to the increased risk of type II error (e.g., Perneger 1998; Cabin and Mitchell 2000; Armstrong 2014; Lindquist and Mejia 2015; Cramer et al. 2016). One should note that CJ Elite Law School is significant when applying unadjusted p-values.

^a Included with the strategic variables because it is a constituent term in the interaction.

^{*} Bonferroni-adjusted p-value less than .05.

^{26.} All discussion of statistical significance is at the .05 level.

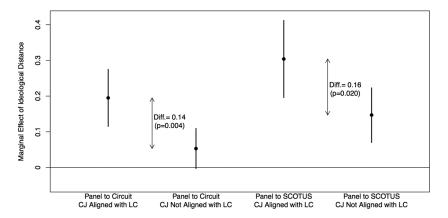


Figure 2. Marginal effect of ideological distance (and corresponding 95% confidence interval) between the panel and a reviewing court on the case outcome reflecting the counterjudge's ideology, by alignment with the lower court ruling. Also provided are the differences in marginal effects for each ideology measure by alignment and the *p*-values of those differences.

be successful. Finally, the significance of the ideological distance between the panel majority and the Supreme Court indicates that strategy plays a role as well. A change in Ideological Distance: Panel to SCOTUS from the 25% value to its 75% value corresponds to a 3.7% increase in the probability a counterjudge will be successful.

Although only three indicators are statistically significant, they jointly have a sizable effect on the probability that a counterjudge is successful. Together, an interquartile shift in these variables increases a counterjudge's chance of success by nearly 9%. That these three variables alone would affect the outcomes of nearly 1 in 10 cases decided by a split panel is a substantively important effect.²⁷

Furthermore, the marginal effects of the interaction terms reveal more evidence of strategic behavior. Figure 2 shows the marginal effect of ideological distance to the reviewing court both when the counterjudge is aligned with the lower court ruling and when she is not aligned with the lower court. The difference between the marginal effects under these two situations provides evidence of the panel majority strategically accounting for the counterjudge's alignment with the ruling below. Therefore, the figure also provides both the differences between the relevant marginal effects and the *p*-values of those differences.

^{27.} Comparing these probabilities to the baseline probability of a counterideological decision by the panel majority of 0.43 provides an intuitive way to understand these results. Here, the effect for Age across the interquartile range is 6.3% of the baseline probability, the effect of Cotenure is 5.6% of the baseline probability, and the effect of Ideological Distance: Panel to SCOTUS is 8.6% of the baseline rate. Taken together, an interquartile shift across all three variables accounts for about 20% of the baseline probability.

Both differences are in the expected direction and statistically significant. For both measures of ideological distance to a potential reviewing court, the marginal effect of that distance is significantly larger when the counterjudge is aligned with the lower court ruling. And the size of these effects is notable. The marginal effect of ideological distance is 0.14 higher for the distance to the full circuit and 0.16 higher for the distance to the Supreme Court when the panel majority knows that defying the counterjudge would require reversing the lower court opinion and, thus, opening itself up to an even higher probability of review.28

Joint Predictors of Counterjudge Success: Evaluating the Mechanisms Having examined the individual effects of our indicators, we now assess the joint effect of each bundle of indicators to examine the substantive effects of each of the three theories. Because some of our variables could be theoretically consistent with either the acquiescence or deliberation mechanisms, we assess the groups of variables that are associated with each of the three theories uniquely. Assessing the effect of strategy is complicated by the reality that CJ Aligned with Ruling Below has an impact both as a result of strategy and as a result of other factors (such as deferential standards of review). To address this, we evaluate the effects of strategy both including and excluding alignment with the lower court ruling within the group of variables being assessed. This approach provides the upper and lower bounds for the effect size of strategy.

For each set of variables, we conduct an F-test for their joint significance. We further assess the substantive significance of each group of variables by calculating the predicted probability of counterjudge success when setting each variable in the group to their 25th/ 75th percentile values or 0/1 as applicable to calculate estimates for "weak" and "strong" counterjudges. For example, for a "weak" counterjudge Senior Status equals 1 and Age is set at its 75% value. Finally, we calculate the proportional reduction in error achieved by a model containing only the relevant set of variables. Table 4 provides these results as well as p-values that indicate whether the difference between the predicted probabilities for a weak and strong counterjudge is statistically significant.

The F-tests for joint significance reveal that each subset of variables provides some explanation for counterjudge success. For those groups of variables we can reject the null hypotheses that all of the relevant variables have no effect on counterjudge success. A look at the substantive effect size of each group of variables suggests the need for a bit of caution in interpreting these results. For acquiescence and deliberation, changing all the variables from the value for a weak counterjudge to those for a strong counterjudge changes the overall predicted probability by 0.02 and 0.05 respectively.²⁹ However, for neither group

^{28.} The Bonferroni correction for the overall model would set the α level of significance at .0026.

^{29.} If all variables consistent with each theory (rather than only those exclusively associated with the theory) are changed from the values for a weak to those for a strong counterjudge, the difference in predicted probabilities for acquiescence is 0.04 (p = .41), and the difference for deliberation is 0.07 (p = .14).

Table 4. Overall Evaluation of Theories

	<i>ET</i> .	Predicted Probability			. 1/1 C	DDE
Theory	F-Test p-Value	Weak CJ	Strong CJ	Difference	<i>p</i> -Value for Difference	PRE (%)
Acquiescence (unique only)	.0006	.16	.19	.03	.346	52
Deliberation (unique only)	.0001	.16	.21	.05	.090	.96
Strategy (with alignment)	<.0001	.15	.66	.51	<.001	39.07
Strategy (without alignment)	<.0001	.15	.20	.05	.019	7.67

Note.—The *p*-value from *F*-test of joint significance for various subsets of variables as well as predicted probability of counterjudge (CJ) success when the applicable group of variables are set to values for a weak, and then strong, CJ in turn as well as the difference between those predicted probabilities and the *p*-value of that difference. Proportional reduction in error (PRE) is calculated using a model consisting only of those variables associated with the theory. See table 1 for the list of variables associated with each theory.

is the predicted probability for a weak counterjudge statistically significantly different from the predicted probability for a strong counterjudge, nor does either set of variables measurably improve the model's ability to reduce error.

Finally, there is strong evidence that the strategic theory explains counterjudge success. The bottom two rows of table 4 suggest that the variables associated with the strategic theory are associated with a measurable reduction in error over a baseline model. Moreover, the combined effect of the ideological distance to both reviewing courts is statistically and substantively significant both on its own and when alignment with the lower court ruling is included in the group of variables being assessed. In the former analysis, when alignment is held at its median value of 0 for the analysis, a strong counterjudge has a predicted probability of success that is 0.05 higher than a weak counterjudge in a similar position. The estimated effect size is much more dramatic when alignment with the lower court ruling is shifted as well. When a strong counterjudge is also aligned with the lower court, the probability of counterjudge success increases by a whopping 51% over the probability of success for a weak counterjudge. Although we cannot claim that this effect is due entirely to strategy, when it is taken together with the interaction effects illustrated in figure 2, we can conclude that the effect size of strategy is greater than the lower bound of 0.05 and could range as high as 0.51. Thus, it is clear that strategy plays a vital role in the operation of panel effects.

DISCUSSION AND CONCLUSION

The results provide a complex picture of appellate decision making. Befitting the complicated nature of judicial choice (Baum 1997; Edwards 2003), there is some evidence that panel effects in these bread-and-butter cases result from the interplay of interpersonal and interinstitutional considerations. Indeed, when considering the significance of individual variables, our empirical analysis provides some evidence that the desires to defer, deliberate, and dodge review all affect the likelihood of counterjudge success in the US courts of appeals. Taken together, their effects are considerable. When a counterjudge is not aligned with the lower court and is in a weak position in terms of all three theories, the

counterjudge will be successful in an estimated 11% of cases, while such a counterjudge in a strong position in terms of all three theories is successful 25% of the time. For a counterjudge who is aligned with the lower court ruling, this difference ranges from 46% for a weak counterjudge to 72% for a strong counterjudge.

However, further analysis reveals that the lion's share of the explanatory power in these models results from hierarchical considerations outside of the counterjudge's direct control, namely, the interplay between counterjudge alignment with the lower court and the distance of panels to potential reviewing bodies. Our conclusions underscore the important role that appellate courts play in legal developments in the United States. That the ideological location of the panel relative to the rest of the judicial hierarchy is one of the most consistent and largest predictors of counterjudge success suggests that many of the panel effects that we observe—at least on the basis of partisanship—might stem more from factors outside of the counterjudge's control than any actions that the counterjudge takes while the panel is resolving the dispute. These results therefore stand in stark contrast to discussions of panel effects based on the panel's demographic characteristics, which have provided strong suggestive evidence that some types of panel effects emerge owing to informational benefits that the counterjudge brings to the table (Boyd et al. 2010).

This is not to dismiss deliberative and acquiescent accounts of panel effects; our results present some, admittedly modest, evidence that these considerations play a role. We acknowledge that the evidence on this front is more limited; the substantive effects of our bundle of indicators for each of these theories are more limited than those of the indicators for strategic theory; moreover, neither grouping substantially increases the model's predictive power. Still, the individual results for age and cotenure suggest that peer effects have some role to play in the resolution of cases on the US courts of appeals. These results provide further evidence for Baum's (1997) contention that judges have multiple, overlapping goals. Obtaining and promoting "good" legal policy is one of those goals, but maintaining good collegial relationships with their peers is another important goal held by US courts of appeals judges that also explains panel effects.

Our analysis provides more questions for future research than definitive conclusions. An important question for future scholarship concerns the varying explanatory power of these three theories; scholars should continue to move beyond the well-trodden question of whether panel effects exist toward asking why these effects occur and, having developed competing explanations for the occurrence of panel effects, when those theories are applicable. Future lines of inquiry could address the role of the opinion author and the composition of the panel as a whole in the complex process of how and when panel effects emerge.

Additionally, future research needs to examine how the mechanisms behind panel effects vary by issue area and partisanship. Previous work on panel effects has found that different types of factors influence panel decisions based on the legal context; specifically, prior studies regarding the influence of characteristics such as race, gender, and party indicate that the effects are not consistent across issue areas and that some features are particularly salient in certain types of cases (e.g., Sunstein et al. 2006; Cox and Miles 2008; Boyd et al. 2010). Additionally, areas of law differ in the extent to which they are litigated and demand technical knowledge or skill to decide. Search and seizure cases require little technical skill and are frequently litigated (see Klein 2002, 68). As a result, judges are unlikely to have unique expertise on the issue of search and seizure that enhances their deliberative position. One fruitful area for cross-issue comparison would be to examine whether deliberative explanations rise to the forefront in issues such as taxation or regulatory cases, in which technical expertise is particularly desirable.

Likewise, we were able to study a very common type of case at the court of appeals, but the mixture of effects may vary with less typical examples. For example, it seems likely that deliberative and acquiescent theories are most powerful in close cases, in which ideological disagreements are less profound. When two judges have profound disagreements about a case outcome, face-to-face deliberation is probably not enough, on average, to sway a judge's interpretation of the law. In cases in which judges are less sure about the correct resolution for a case, there is room for deliberation and personal relationships to sway decision making. Thus, the "hardness" of a case might also provide important variation in the explanatory power of these three theories.

Finally, while we do not have sufficient data to provide the power necessary to test our model by party (see app. table 6), prior research and our limited data analysis indicate that the explanatory power of the three theories may vary by the partisanship of the judges in the majority. Were this the case, it would suggest additional strategic concerns beyond those in our model. However, interparty differences in the explanatory power of these theories might also implicate differences in judicial philosophies or role orientation that correlate with party. Such issues are important and deserve further research into their nature.

The use of panels to resolve cases is not limited to the US courts of appeals. Many state high courts decide cases in panels rather than en banc, many election law cases are originally heard by three-judge panels, and panels are used to resolve cases in a variety of courts outside of the United States. We build and test our theory using data from the US courts of appeals, but these theories are not unique to them. Future studies should examine the occurrence and persistence of panel effects in other judicial bodies, leveraging institutional variation—in opinion assignment procedures, in judicial retention mechanisms, and in panel assignment institutions—to determine how institutional variation affects both the presence of panel effects and the mechanism(s) through which the existence of these effects can be explained.

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300 | JOURNAL OF LAW AND COURTS | FALL 2020

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