

The Chicken and Egg Question: Satisfaction with Democracy and Voter Turnout

Filip Kostelka¹ & André Blais²

Abstract: Political scientists, analysts and journalists alike have for long believed that the degree of satisfaction with the functioning of democracy determines voter turnout. In this article, we use survey data from 24 panel studies and demonstrate that the causal relationship is actually reversed: voter turnout affects satisfaction with democracy and not the other way around. We also show that this reversed relationship is conditioned by election type, electoral system, and election outcomes. These findings are important since: a) They question conventional wisdom and a large body of scientific literature; b) They invite a more nuanced approach in the study of the relationship between evaluations of regime performance and political participation; c) They underline the central role of elections in shaping citizens' perception of the democratic process.

Note: This is a manuscript accepted for publication in *PS: Political Science and Politics* (forthcoming probably in April 2018). Following the journal's style, the manuscript uses endnotes. Suggested citation:

Kostelka, Filip and André Blais, "The Chicken and Egg Question: Satisfaction with Democracy and Voter Turnout", *PS: Political Science and Politics*, forthcoming.

¹ **Filip Kostelka** is a postdoctoral fellow at the Research Chair in Electoral Studies, University of Montreal, Canada, and associate researcher at the Centre d'études européennes, Sciences Po, Paris, France. He coordinates the Making Electoral Democracy Work project (<http://electoraldemocracy.com>) and can be reached at filip.kostelka@umontreal.ca.

² **André Blais** is professor in the department of political science and holds a Research Chair in Electoral Studies at the University of Montreal, Canada. He leads the Making Electoral Democracy Work project (<http://electoraldemocracy.com>) and can be reached at andre.blais@umontreal.ca.

Introduction

“Does a low election turnout indicate voters are disillusioned or content?” asked one of the world’s oldest newspaper The Herald in the run-up to the 2003 election to the Scottish Parliament (The Herald 2003, 12). In its article, the Glasgow-based broadsheet comes to the conclusion that some abstainers may “register their disillusion” while others may be “content with the way things are”. Interestingly, as we review below, this intuition reflects the current state of the scientific debate on the impact of citizen’s satisfaction on voter turnout. Nevertheless, the title is illustrative of yet another phenomenon. More broadly, it shows how pundits usually conceptualize the relationship between satisfaction with the way democracy works and voter turnout: the former as the cause and the latter as the effect. However, such a view is incomplete since there are theoretical reasons and empirical findings for considering the presence of a reversed relationship. In this article, we use data from 24 panel studies and debunk the conventional wisdom. We find no evidence of the effect of democratic satisfaction on voter turnout but robust support for the reversed relationship. In other words, voter turnout tends to affect satisfaction and not the other way around. In national and subnational elections, the effect is positive and it is stronger in majoritarian electoral systems and among voters who think that their preferred party won the election. Conversely, in supranational elections, the effect is negative and affects the whole electorate.

Hypotheses

Satisfaction with democracy is best understood as an indicator of regime performance, situated between more diffuse support for political community and regime principles and more specific support for regime institutions and political actors (Norris 1999, Linde and Ekman 2003, Norris 2011, Linde 2012). As regards its impact on voter turnout, the political science literature has been divided in two camps (Pacek et al. 2009; Ezrow and Xesonakis 2014). On the one hand, especially in earlier works, nonvoting is often seen as a sign of satisfaction with

the current state of affairs (e.g. Tingsten 1930, Wilson 1936, Lipset 1981). On the other hand, especially in the more recent literature, “dissatisfaction with democratic performance is usually regarded at least implicitly, as an important cause of civic disengagement” (Norris 2011; see also Kostadinova 2003). Both perspectives agree on the direction of causality and assume that one’s perception of the overall functioning of the political system motivates the decision to vote or abstain. Political scientists, thus, frequently use satisfaction with democracy to predict voter turnout (e.g. Grönlund and Setälä 2007; Flickinger and Studlar 2007, Hadjar and Beck 2010).

Hypothesis 1a: Satisfaction with democracy decreases voter turnout.

Hypothesis 1b: Satisfaction with democracy increases voter turnout.

Most empirical studies employ post-election measures, or study macro-level data using measurements from non-electoral surveys. The two methods are problematic. First, the macro-data approach can provide only indirect evidence of the causal mechanism. Secondly, the post-election type of measurement implicitly presupposes that the election itself has not altered citizens’ level of democratic satisfaction. Such presupposition is questionable.

Elections are at the heart of contemporary democracy (Dahl 1971; Huntington 1991). They are the principal means of changing the political course of a democratic polity. It is through elections that an unpopular incumbent can be voted out of office and replaced by a more popular alternative. They represent the most tangible embodiment of the democratic principle to which citizens are regularly and systematically exposed. It would be surprising if elections had no effect on citizens’ view about how democracy works in their country. We hypothesize that, in most circumstances, elections boost satisfaction with democracy, especially among voters who play the democratic game.

Hypothesis 2: Electoral participation increases satisfaction with democracy.

However, the impact of electoral participation is likely to vary across contexts and individuals. With regard to the former, an increase in satisfaction can be expected only as long

as there is a clear link between election outcomes and government composition. A quintessential example of elections where such a link is tenuous are supranational elections to the European Parliament. Although they are run essentially as national contests on national issues (Reif and Schmitt 1980), a party winning the national vote may end up in the losing camp at the supranational level. Furthermore, the European Union's institutional structure and operating mechanisms further hinder accountability (Follesdal and Hix 2006). Consequently, the positive effect of elections on satisfaction should be weak or inexistent in EP elections. On a more general level, following Aarts and Thomassen 2008, we expect that elections under majoritarian electoral rules allow for more accountability and, therefore, boost satisfaction with democracy more strongly than elections using proportional representation.¹

Hypothesis 3: The positive effect of electoral participation on satisfaction with democracy is weak or inexistent in European Parliament Elections.

Hypothesis 4: The positive effect of electoral participation on satisfaction is stronger in majoritarian electoral systems

As for individual-level variations, it is obvious that election outcomes are not equally liked or disliked by all voters. Citizens' preferences presumably condition election-related change in satisfaction. Winners, i.e. those who prefer the party (or parties) that won the election, are likely to see their satisfaction increase much more than losers, i.e. those who prefer the losing alternatives.

Hypothesis 5: Satisfaction with democracy increases the most among election winners.

The impact of elections and election outcomes on mass political attitudes has been studied empirically by a vibrant strand of political science literature. These studies have generally found that those who participate in an election consider the outcome of the election as more legitimate than abstainers (Nadeau and Blais 1993) and that winners become more satisfied than losers (Anderson et al. 2005; Henderson 2008; Singh 2014; Campbell 2015;

Singh and Thornton 2016). Although these studies provide valuable insights, they suffer from the same limitation as the aforementioned research since they are based on the same kind of data – post-electoral surveys. They consequently do not allow researchers to control for pre-election attitudes. As for panel studies, they are rare, usually cover a single election and often study different, typically more specific, types of political support. They have found that voting in elections increases external efficacy (Ginsberg and Weissberg 1978) and perceptions of legislators' responsiveness (Clarke and Kornberg 1992). Those effects tend to be the strongest among election winners, who also become more trustful of government (Anderson and LoTempio 2002) and less cynical about political parties (Banducci and Karp 2003). In terms of satisfaction with democracy, a positive effect has been detected in the 1999 legislative election in New Zealand (Banducci and Karp 2003) in the 2010 North Rhine-Westphalia election (Singh et al. 2012) and in the French presidential election of 2012 (Beaudonnet et al. 2014). Blais and Gélinau 2007 found a positive effect on voters in general and winners in particular in the Canadian election of 1997. Finally, Blais et al. 2015 found that satisfaction increased among those who voted for parties that gained greater shares of votes, seats and cabinet portfolios. All these findings reveal that the use of post-electoral measures of satisfaction can be a risky strategy since causality may go in the opposite direction. We thus proceed to a systematic examination of the relationship between satisfaction with democracy and voter turnout.

Data

To test the five hypotheses, we use individual-level survey data from the Making Electoral Democracy Work project (MEDW, Blais 2010). The project studies national, subnational, and supranational elections held between 2010 and 2015 in five countries (Canada, France, Germany, Spain and Switzerland).² Our dataset consists of 24 region-election samples that cover 17 elections held between 2010 and 2015 (five national, nine subnational and three supranational, see the Electronic Appendix). These data are particularly suitable for disentangling the satisfaction-turnout nexus since it has a two-wave panel structure

and provides both a pre-election and post-election measure of satisfaction with democracy. Respondents were asked, generally one week before and week after the given election, to indicate their degree of satisfaction with democracy at the election-related level of governance. They were proposed a 0-10 scale where 0 means “not satisfied at all” and 10 “very satisfied”.³ We divide the scale by ten so that it varies between 0 and 1.

The control variables are the classic predictors of electoral participation commonly used in political science research such as age, education and political interest (Blais 2007, see the Electronic Appendix for descriptive statistics). It should be noted that all the control variables were measured in the pre-election surveys while the main variable of interest – reported electoral participation – was measured after the election. Hypothesis 3 and 4 are tested by dummy variables that distinguish different types of elections (national, subnational and supranational) and different electoral systems (majoritarian and proportional). As for Hypothesis 5, we introduce two dummy variables that ascertain whether voters think the party for which they had cast a vote won or lost (abstainers and don’t knows are the reference category).⁴ Finally, all the of the following analyses include region (or election-region) dummies.

Findings

In Table 1, we present the results of four analyses. Model 1 regresses electoral participation on the pre-election and post-election measures of satisfaction with democracy alone.⁵ In conformity with Hypothesis 2, the post-election measure is much more strongly associated with voting than the pre-election one. At this stage, it cannot, however, be excluded that pre-election satisfaction, the coefficient of which is also positive and statistically significant, fosters voting too as Hypothesis 1b suggests. Therefore, in Model 2, we test the pre-election measure alone while incorporating the control variables. The coefficient is now even smaller than in model 1 and no longer meets the most lenient threshold of statistical

significance. This means that the weak positive effect of the pre-election measure in Model 1 was essentially a proxy for variables that are more closely related to voter turnout such as education or interest in politics. People who are dissatisfied with democracy before the election do not participate less because they are dissatisfied but because they are less educated or uninterested in politics. In contrast, the effect of the post-election measurement in Model 3 is still substantial and meets the most rigorous threshold of statistical significance. Furthermore, the findings from Models 2 and 3 are confirmed in Model 4 where the two measures are tested jointly with the control variables. While the post-election measure remains statistically significant, the pre-election measure changes sign and is insignificant. All the models point in the same direction: conventional hypotheses (1a and 1b) are rejected while the first alternative hypothesis (2) is supported.

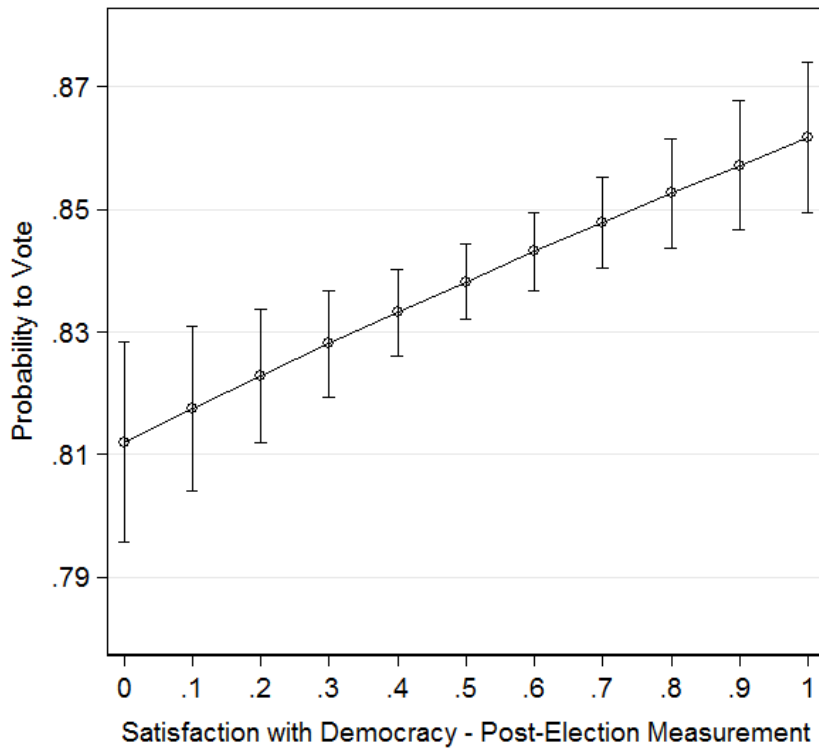
Figure 1 graphically expresses the relationship between electoral participation and post-election satisfaction. It displays the average marginal effects (AME) calculated from Model 3. If post-election satisfaction was the cause and voting the effect, it could be understood as the change in the probability of voting when respondents' value on satisfaction increases. If we did not have the pre-election measure, we would conclude that a shift from no satisfaction to maximal satisfaction increases the probability of voting by approximately five percentage points. This is a large effect, which would provide strong evidence for the conventional interpretation (Hypothesis 1b). We know, however, that turnout is related to post-election satisfaction and not to pre-election satisfaction, and thus that it is voting that boosts satisfaction and not the other way around.

Table 1 Turnout and Satisfaction with Democracy

	(1)	(2)	(3)	(4)
	No controls	Pre & Controls	Post & Controls	Post & Pre & Controls
Pre-Election Satisfaction	0.28* (0.12)	0.19 (0.12)		-0.11 (0.14)
Post-Election Satisfaction	0.90*** (0.12)		0.44*** (0.12)	0.51*** (0.14)
Female		-0.11 (0.06)	-0.11 (0.06)	-0.11 (0.06)
Age		0.02*** (0.00)	0.02*** (0.00)	0.02*** (0.00)
Post-Secondary Education		0.31*** (0.06)	0.30*** (0.06)	0.30*** (0.06)
Duty to Vote		1.18*** (0.06)	1.17*** (0.06)	1.17*** (0.06)
Interest in Politics		1.14*** (0.12)	1.11*** (0.12)	1.12*** (0.12)
Political Knowledge		1.26*** (0.10)	1.25*** (0.10)	1.25*** (0.10)
Feel close to a Party		0.55*** (0.07)	0.54*** (0.07)	0.54*** (0.07)
Election-Region Dummy Variables	Yes	Yes	Yes	Yes
Constant	0.71*** (0.12)	-1.52*** (0.17)	-1.66*** (0.17)	-1.64*** (0.17)
Observations	19076	19076	19076	19076
Pseudo R^2	0.04	0.18	0.18	0.18

Note: Logit regression coefficients with robust standard errors in parentheses. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Figure 1 Predicted Probability to Vote and Satisfaction with Democracy



Note: The error bars indicate 95% confidence intervals.

The impact of voter turnout on satisfaction with democracy is formally tested in Table 2. The dependent variable is the change in satisfaction with democracy between the pre-election and post-election measurements. The main predictor of interest is turnout. To take into account ceiling effects, we control for pre-election satisfaction. The result clearly corroborates Hypothesis 2: having voted increases satisfaction with democracy by 0.02 (0.2 on the 0-10 scale) among voters when compared to abstainers (the reference category).

Table 2 Pre-Post Change in Satisfaction with Democracy and Turnout

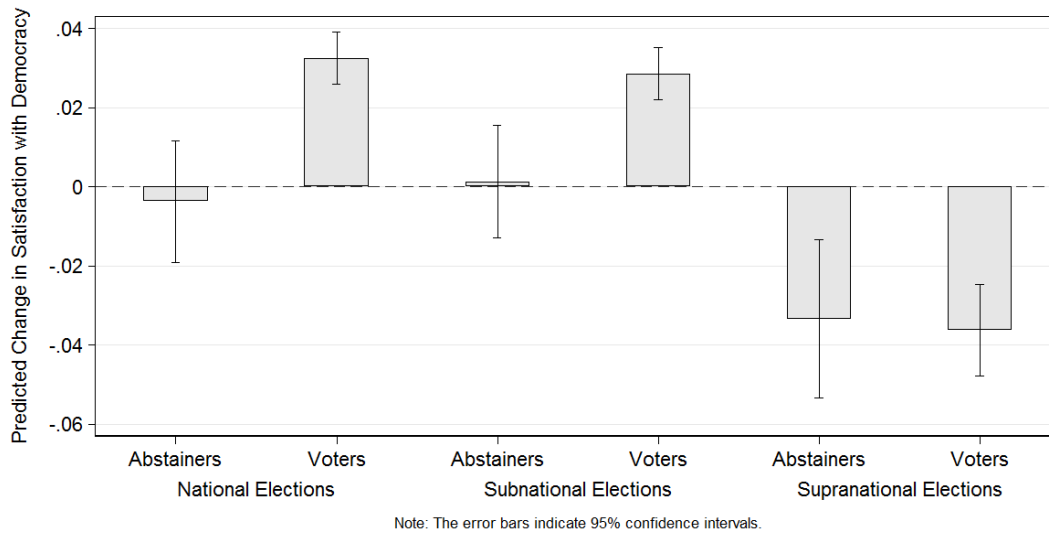
	B
Voted	0.02*** (0.01)
Pre-Election Satisfaction	-0.43*** (0.01)
Female	-0.01 (0.00)
Age	-0.00 (0.00)
Post-secondary Education	0.01*** (0.00)
Interest in Politics	0.04*** (0.01)
Political Knowledge	0.03*** (0.01)
Feel Close to a Party	0.01** (0.00)
Election-Region Dummy Variables	Yes
Constant	0.23*** (0.01)
N	19076
R ²	0.25

Note: OLS Regression coefficients with robust standard errors in parentheses. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

To test Hypotheses 3 and 4, we added election type and electoral system as predictors in the model presented in Table 2. Each variable was also interacted with voting. We plot the effect of these variables as average marginal effects in Figure 2 and 3.⁶ They express the predicted change in satisfaction with democracy for voters and abstainers in different institutional contexts.

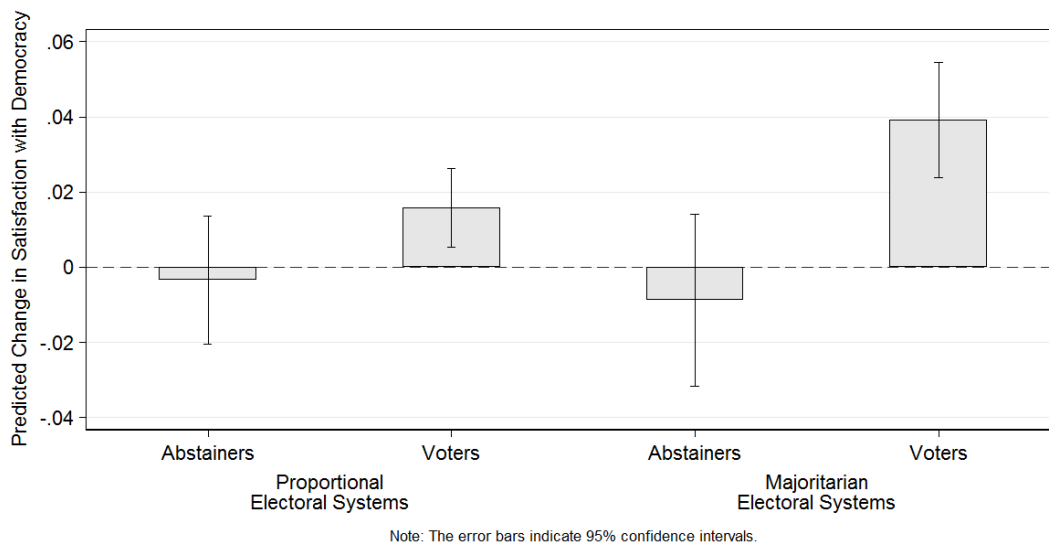
In terms of election types (Figure 2), national and subnational elections increase voters' satisfaction by approximately 0.03 while exerting no effect on abstainers. Conversely, supranational elections to the European Parliament depress satisfaction in the whole electorate by practically the same amount. This validates and even exceeds the expectations of Hypothesis 3. It suggests that EP elections expose the democratic imperfections of the European Union and, instead of boosting democratic satisfaction, they decrease it.

Figure 2 Predicted Pre-Post Change in Satisfaction with Democracy by Election Type



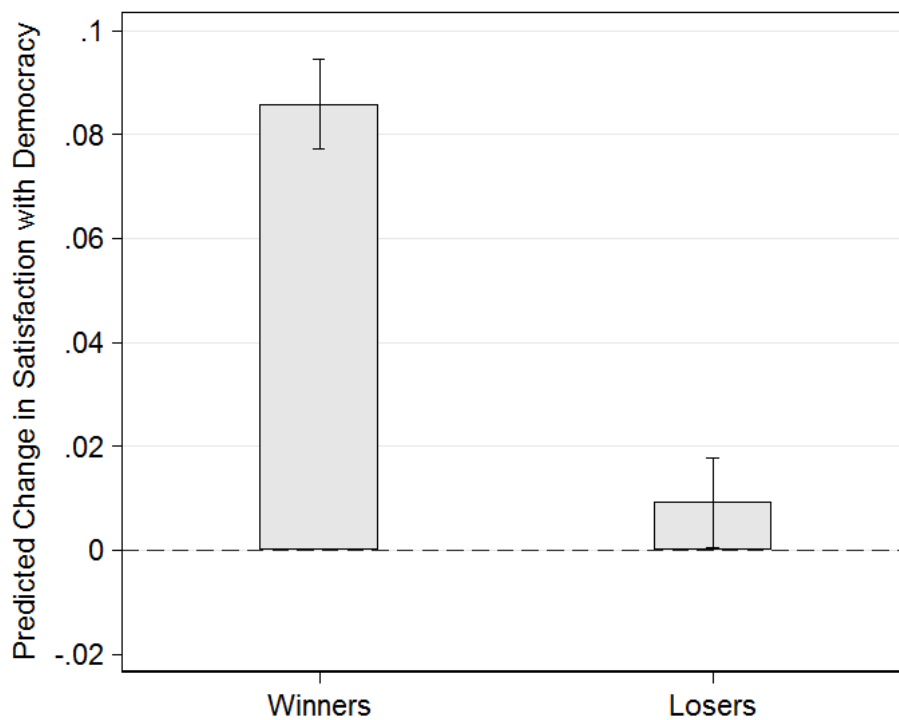
Given the peculiarity of supranational elections, in the remaining analyses, we focus on national and subnational elections. Figure 3 displays the effects of electoral systems. In line with Hypothesis 4, elections run under majoritarian rules increase satisfaction among voters twice as strongly (0.04) as elections in proportional systems (0.02). Like in Figure 2, abstainers' level of satisfaction remains stable in both types of systems.

Figure 3 Predicted Pre-Post Change in Satisfaction with Democracy by Electoral System



Finally, we examine the impact of perceptions of election outcomes. Figure 4 shows that, as predicted by Hypothesis 5, the effect is much stronger among election winners. Those who believe that their preferred party won the election see their satisfaction increase by 0.09 (0.9 on the 0-10 scale). Nevertheless, a substantially small but statistically significant increase is observable also among election losers. This reveals that elections tend to legitimize democracy among all voters and not only winning parties' supporters.

Figure 4 Predicted Pre-Post Change in Satisfaction with Democracy among Voters



Note: The error bars indicate 95% confidence intervals.

Conclusion

This article questions the conventional view about the causal relationship between satisfaction with democracy and electoral participation. What is thought by many to be the cause is in reality the effect and vice versa. This finding has important implications.

First, the results of earlier studies, based on post-electoral surveys, need to be reinterpreted. In light of our findings, those prior works do not testify to the impact of

satisfaction on voting but, instead, to the impact of voting on satisfaction. There is no evidence that those who are less satisfied before the election vote less.

Second, our analysis contributes to the broad literature on the role of elections in democracies. It provides robust support for the legitimizing effect of elections. We show that, in national and subnational elections, especially those run under majoritarian rules, voting increases the satisfaction of all voters – even those who lost the election – and that it strongly boosts the satisfaction of those who believe that they won the election. In that respect, the generalized boost in satisfaction with democracy resembles the honeymoon effect, which also affects both election winners and losers (e.g. Brody 1991). Future studies should investigate to what extent the two phenomena are related and whether the election-driven boost in satisfaction with democracy is as temporary as the honeymoon.

There are certainly circumstances in which citizens can become less satisfied after an election. In this study, we found that supranational elections decrease satisfaction both among voters and abstainers. Such a negative effect can be expected in other contexts in which elections produce outcomes that are seen as distorted, illegitimate or ineffective, and it may affect especially those who voted for parties that fail to gain any representation (Blais et al. 2015). For instance, in the U.S. context, satisfaction may decrease among those voters whose preferred presidential candidate loses the White House despite winning the popular vote like the Democrats in 2000 and 2016 (see Craig et al. 2006). More generally, future research should explore in greater detail how contextual factors such as disproportionality or party system fragmentation condition the effect of elections on citizens' satisfaction.

Third, our findings underline the pitfalls of using satisfaction with democracy measured in post-electoral surveys to predict voting behaviour. These attitudes are likely to be affected by the election itself. The causal arrow may go in the other direction: from voting behaviour to attitudes.

Fourth, our results remind us that elections are a central democratic institution. In retrospect, it seems obvious that elections affect how citizens perceive the functioning of democratic regimes. This does not rule out the possibility that other factors such as political scandals may produce strong shifts in satisfaction with democracy (Kumlin and Esaiasson 2012). The bottom line, however, is that elections matter and that, most of the time, participating in an election makes citizens more satisfied with the way democracy works.

References

- Aarts, Kees, and Jacques Thomassen. 2008. "Satisfaction with Democracy: Do Institutions Matter?" *Electoral Studies* 27 (1): 5–18.
- Anderson, Christopher J. et al. 2005. *Losers' Consent: Elections and Democratic Legitimacy: Elections and Democratic Legitimacy*. Oxford: Oxford University Press.
- Anderson, Christopher J., and Andrew J. LoTempio. 2002. "Winning, Losing and Political Trust in America." *British Journal of Political Science* 32 (2): 335–51.
- Banducci, Susan A., and Jeffrey A. Karp. 2003. "How Elections Change the Way Citizens View the Political System: Campaigns, Media Effects and Electoral Outcomes in Comparative Perspective." *British Journal of Political Science* 33 (3): 443–67.
- Beaudonnet, Laurie, André Blais, Damien Bol, and Martial Foucault. 2014. "The Impact of Election Outcomes on Satisfaction with Democracy under a Two-Round System." *French Politics* 12 (1): 22–35.
- Blais, André. 2007. "Turnout in Elections." In *The Oxford Handbook of Political Behavior*, eds. Hans-Dieter Klingemann and Russell J Dalton. Oxford: Oxford University Press, 621–35.
- . 2010. "Making Electoral Democracy Work." *Electoral Studies* 29 (1): 169–70.
- Blais, André, and François Gélinau. 2007. "Winning, Losing and Satisfaction with Democracy." *Political Studies* 55 (2): 425–41.
- Blais, André, Alexandre Morin-Chassé, and Shane P. Singh. 2015. "Election Outcomes, Legislative Representation, and Satisfaction with Democracy." *Party Politics*: 1354068815583200.

- Brody, Richard. 1991. *Assessing the President: The Media, Elite Opinion, and Public Support*. Stanford, CA: Stanford University Press.
- Campbell, Ross. 2015. "Winners, Losers and the Grand Coalition: Political Satisfaction in the Federal Republic of Germany." *International Political Science Review* 36 (2): 168–84.
- Clarke, Harold D., and Allan Kornberg. 1992. "Do National Elections Affect Perceptions of MP Responsiveness? A Note on the Canadian Case." *Legislative Studies Quarterly* 17 (2): 183–204.
- Craig, Stephen C., Michael D. Martinez, Jason Gainous, and James G. Kane. 2006. "Winners, Losers, and Election Context: Voter Responses to the 2000 Presidential Election." *Political Research Quarterly* 59 (4): 579–92.
- Dahl, Robert Alan. 1971. *Polyarchy: Participation and Opposition*. New Haven, CT: Yale University Press.
- Ezrow, Lawrence, and Georgios Xezonakis. 2016. "Satisfaction with Democracy and Voter Turnout A Temporal Perspective." *Party Politics* 22 (1): 3–14.
- Flickinger, Richard S., and Donley T. Studlar. 2007. "One Europe, Many Electorates? Models of Turnout in European Parliament Elections After 2004." *Comparative Political Studies* 40 (4): 383–404.
- Follesdal, Andreas, and Simon Hix. 2006. "Why There Is a Democratic Deficit in the EU: A Response to Majone and Moravcsik." *Journal of Common Market Studies* 44 (3): 533–62.
- Ginsberg, Benjamin, and Robert Weissberg. 1978. "Elections and the Mobilization of Popular Support." *American Journal of Political Science* 22 (1): 31–55.
- Grönlund, Kimmo, and Maija Setälä. 2007. "Political Trust, Satisfaction and Voter Turnout." *Comparative European Politics* 5 (4): 400–422.
- Hadjar, Andreas, and Michael Beck. 2010. "Who Does Not Participate in Elections in Europe and Why Is This?" *European Societies* 12 (4): 521–42.
- Henderson, Ailsa. 2008. "Satisfaction with Democracy: The Impact of Winning and Losing in Westminster Systems." *Journal of Elections, Public Opinion and Parties* 18 (1): 3–26.
- Huntington, Samuel P. 1991. *The Thrd Wave: Democratization in the Late 20th Century*. Norman: University of Oklahoma Press.
- Kostadinova, Tatiana. 2003. "Voter Turnout Dynamics in post-Communist Europe." *European Journal of Political Research* 42 (6): 741–59.
- Kumlin, Staffan, and Peter Esaiasson. 2012. "Scandal Fatigue? Scandal Elections and Satisfaction with Democracy in Western Europe, 1977–2007." *British Journal of Political Science* 42 (2): 263–82.
- Linde, Jonas. 2012. "Why Feed the Hand That Bites You? Perceptions of Procedural Fairness and System Support in Post-Communist Democracies." *European Journal of Political Research* 51 (3): 410–34.

- Linde, Jonas, and Joakim Ekman. 2003. "Satisfaction with Democracy: A Note on a Frequently Used Indicator in Comparative Politics." *European Journal of Political Research* 42 (3): 391–408.
- Lipset, Seymour Martin. 1981. *Political Man: The Social Bases of Politics*. Baltimore, MD: Johns Hopkins University Press.
- Nadeau, Richard, and Andre Blais. 1993. "Accepting the Election Outcome: The Effect of Participation on Losers' Consent." *British Journal of Political Science* 23 (4): 553–63.
- Norris, Pippa. 1999. "Introduction: The Growth of Critical Citizens." In *Critical Citizens: Global Support for Democratic Governance*, ed. Norris, Pippa. Oxford: Oxford University Press, 1–27.
- . 2011. *Democratic Deficit: Critical Citizens Revisited*. New York: Cambridge University Press.
- Pacek, Alexander C, Grigore Pop-Eleches, and Joshua A. Tucker. 2009. "Disenchanted or Discerning: Voter Turnout in Post-Communist Countries." *Journal of Politics* 71(2): 473–91.
- Reif, Karlheinz, and Hermann Schmitt. 1980. "Nine Second-Order National Elections – a Conceptual Framework for the Analysis of European Election Results." *European Journal of Political Research* 8 (1): 3–44.
- Singh, Shane, Ekrem Karakoç, and André Blais. 2012. "Differentiating Winners: How Elections Affect Satisfaction with Democracy." *Electoral Studies* 31 (1): 201–11.
- Singh, Shane P. 2014. "Not All Election Winners Are Equal: Satisfaction with Democracy and the Nature of the Vote." *European Journal of Political Research* 53 (2): 308–27.
- Singh, Shane P., and Judd R. Thornton. 2016. "Strange Bedfellows: Coalition Makeup and Perceptions of Democratic Performance among Electoral Winners." *Electoral Studies* 42: 114–25.
- The Herald. 2003. "Does a Low Election Turnout Indicate Voters Are Disillusioned or Content?" *The Herald*, April 26.
- Tingsten, Herbert. 1963. *Political Behavior: Studies in Election Statistics*. Totowa, NJ: Bedminster Press.
- Wilson, Francis G. 1936. "The Inactive Electorate and Social Revolution" *The Southwestern Social Science Quarterly* 16 (4): 73–84.

ENDNOTES

¹ We follow the conventional terminology in political science literature and consider plurality systems as part of the majoritarian family of electoral systems.

² British Columbia, Ontario and Quebec in Canada; Ile de France and Provence in France; Lower Saxony in Germany; Catalonia and Madrid in Spain; Lucerne and Zürich in Switzerland.

³ The exact wording of the question was in both the pre-election and post-election surveys as follows: “On a scale from 0 to 10 where 0 means 'not satisfied at all' and 10 means 'very satisfied,' how satisfied are you with the way democracy works at the [election-related level of governance]?” Half of respondents were asked this question at the beginning of each survey and the other half at the end.

⁴ Respondents can say that their party won, lost or that they do not know. The variable is available only for approximately two thirds of respondents in the pooled dataset.

⁵ The joint inclusion of the two measurements in the regression model is not problematic since, although they measure the same concept, they are only moderately correlated ($r=0.63$).

⁶ Full regression results are available in the Electronic Appendix.