

15 March 2017

1 Overview

At our previous meeting we decided to do the following:

- Compare same state Senators who are up for reelection against those who aren't, taking Levitt (1996), Table 4 as inspiration
- Reconduct analyses with an interaction effect between member vote share and presidential vote share
- Conduct analyses with noncall response rate (`pfrate100`) as the DV
- Produce figures which plot our main independent variable (`ideological_extremism`) against party call response rate (`pirate100`) and noncall response rate (`pfrate100`)

These are included below.

2 Tables and Figures

2.1 Difference in Differences Tests

In order to test the effects of election proximity, William and I settled on a difference in differences like approach in which we compare the differences in responsiveness rates between 2 same state Senators in Congresses which one of them is treated. This differs from a standard diff in diff test by including only times when one member of a pair is treated.

With this test, we estimate the effect as well as a placebo derived from a randomly assigned treatment condition. Analysis is provided separately with responsiveness rate to party calls (tables 1 through 3) and responsiveness rate to noncalls (tables 4 through 6) as dependent variables. Within these, we report the estimate for the ATT and the lower and upper bounds of the 95% confidence interval. The confidence interval is calculated through a bootstrap at the state level. The first table in each set provides a naive calculation of the confidence interval while the second uses weights the effect by seat pair type. The third table provides the estimated effect for each seat pair type.

Table 1: Difference in Differences, Party Influenced Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate	Lower Bound	Upper Bound
Effect	pirate100	-1.5685604	-2.0957029	-0.97344617
Placebo	pirate100	-0.6902020	-1.2397304	1.23271255

Table 2: Weighted Difference in Differences, Party Influenced Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate	Lower Bound	Upper Bound
Adjusted Effect	pirate100	-1.5685604	-2.1541096	-0.97751751
Adjusted Placebo	pirate100	-0.6902020	-6.1688446	6.06350669

Table 3: Disaggregated Difference in Differences, Party Influenced Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate
2 Maj Dems Effect	pirate100	0.0708958
2 Maj Dems Placebo	pirate100	-0.2036783
2 Min Dems Effect	pirate100	-1.8733904
2 Min Dems Placebo	pirate100	-0.9602191
2 Maj Reps Effect	pirate100	-1.1307379
2 Maj Reps Placebo	pirate100	-0.2868056
2 Min Reps Effect	pirate100	0.3990873
2 Min Reps Placebo	pirate100	0.0147628
Split, Maj Dem Effect	pirate100	-2.4804711
Split, Maj Dem Placebo	pirate100	-0.7279546
Split, Maj Rep Effect	pirate100	-4.3246972
Split, Maj Rep Placebo	pirate100	0.3390961

Table 4: Difference in Differences, Party Free Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate	Lower Bound	Upper Bound
Effect	pfrate100	-0.2969119	-0.7350467	0.13767116
Placebo	pfrate100	-0.3120122	-1.0565962	1.06650160

Table 5: Weighted Difference in Differences, Party Free Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate	Lower Bound	Upper Bound
Adjusted Effect	pfrate100	-0.2969119	-0.7111920	0.14368690
Adjusted Placebo	pfrate100	-0.3120122	-6.5885299	6.18565591

Table 6: Disaggregated Difference in Differences, Party Free Rate, Reelection Treatment vs. Random Assignment

Test	DV	Estimate
2 Maj Dems Effect	pfrate100	0.1900901
2 Maj Dems Placebo	pfrate100	-0.9693719
2 Min Dems Effect	pfrate100	-0.0480525
2 Min Dems Placebo	pfrate100	-0.4318845
2 Maj Reps Effect	pfrate100	1.0805092
2 Maj Reps Placebo	pfrate100	0.4701269
2 Min Reps Effect	pfrate100	-0.3783909
2 Min Reps Placebo	pfrate100	0.6484191
Split, Maj Dem Effect	pfrate100	-1.3097195
Split, Maj Dem Placebo	pfrate100	0.5617371
Split, Maj Rep Effect	pfrate100	-0.6552082
Split, Maj Rep Placebo	pfrate100	0.3091112

2.2 Models with Vote Share Interaction