American, Mexican-DATA

Tolgahan Dilgin, Alan Yu

February 22, 2019
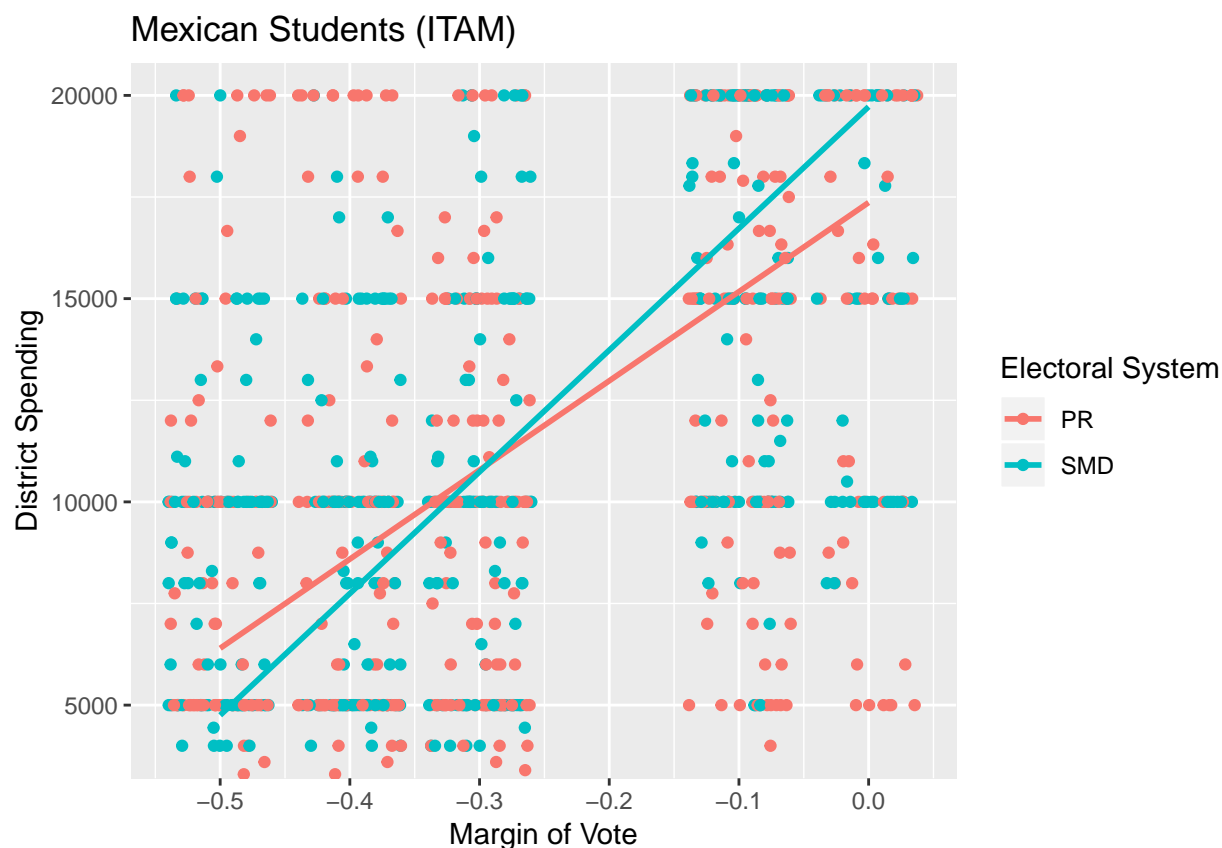
Mexican Students (ITAM)


```
##
## Call:
## lm(formula = District_Spending ~ Competitiveness, data = InstitutionTypeSubSet$SMD)
##
## Coefficients:
##     (Intercept)  Competitiveness
##           19721            29941

##
## Call:
## lm(formula = District_Spending ~ Competitiveness, data = InstitutionTypeSubSet$PR)
##
## Coefficients:
##     (Intercept)  Competitiveness
##           17365            21932

##
## Call:
## lm(formula = District_Spending ~ Competitive + Binary_IT + Competitive *
##     Binary_IT, data = subdata_12.melt)
```

Table 1: ITAM Students (Mexico)

	Competitive	Stronghold
SMD	18,617	7,299
PR	16,647	8,220

```
## 
## Residuals:
##    Min     1Q Median     3Q    Max
## -18617  -5299  -1458   3353  41780
## 
## Coefficients:
##                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)             8219.6       366.3  22.437  < 2e-16 ***
## Competitive             8427.3       634.5  13.281  < 2e-16 ***
## Binary_IT               -920.9       510.9  -1.802  0.07173 .
## Competitive:Binary_IT   2890.8       885.0   3.267  0.00112 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 7454 on 1274 degrees of freedom
## Multiple R-squared:  0.2871, Adjusted R-squared:  0.2854
## F-statistic:   171 on 3 and 1274 DF,  p-value: < 2.2e-16

##                         Estimate Std. Error    t value      Pr(>|t|)
## (Intercept)           8219.5604   366.3415  22.436881  3.162220e-94
## Competitive           8427.2850   634.5221  13.281311  8.527904e-38
## Binary_IT             -920.8937   510.9388  -1.802356  7.172564e-02
## Competitive:Binary_IT 2890.8474   884.9719   3.266598  1.117467e-03

## Warning: package 'broom' was built under R version 3.5.2

## # A tibble: 4 x 5
##   term                  estimate std.error statistic  p.value
##   <chr>                    <dbl>     <dbl>     <dbl>    <dbl>
## 1 (Intercept)              8220.      366.      22.4 3.16e-94
## 2 Competitive              8427.      635.      13.3 8.53e-38
## 3 Binary_IT                -921.      511.     -1.80 7.17e- 2
## 4 Competitive:Binary_IT    2891.      885.      3.27 1.12e- 3
```

Table 2: Electoral Institutions and Competitiveness (ITAM)

	Dependent variable:
	District Spending
Competitive (Binary)	8,427***
	(635)
SMD (Binary)	−921*
	(511)
SMD * Competitive	2,891***
	(885)
Constant	8,220***
	(366)
Observations	1,278
R^2	0
Adjusted R^2	0
Residual Std. Error	7,454 (df = 1274)
F Statistic	171*** (df = 3; 1274)
Note:	*p<0.1; **p<0.05; ***p<0.01

US Students (UIUC)

Table 3: UIUC Students

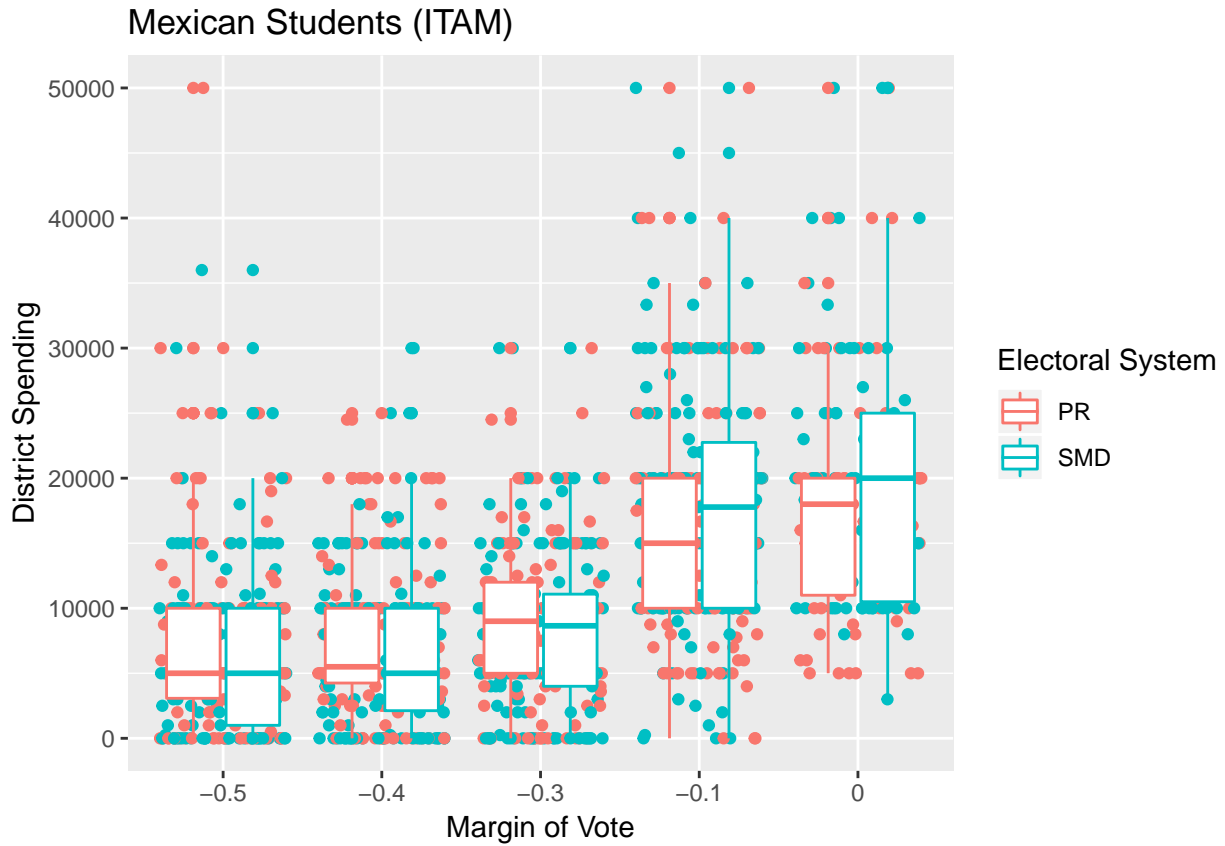|	Competitive	Stronghold
SMD	18,646	7,248
PR	16,413	8,296

```
##
## Call:
## lm(formula = District_Spending ~ Competitiveness, data = AMInstitutionTypeSubSet$SMD)
##
## Coefficients:
##     (Intercept)  Competitiveness
##           19700            29950

##
## Call:
## lm(formula = District_Spending ~ Competitiveness, data = AMInstitutionTypeSubSet$PR)
##
## Coefficients:
##     (Intercept)  Competitiveness
##           17178            21379
```
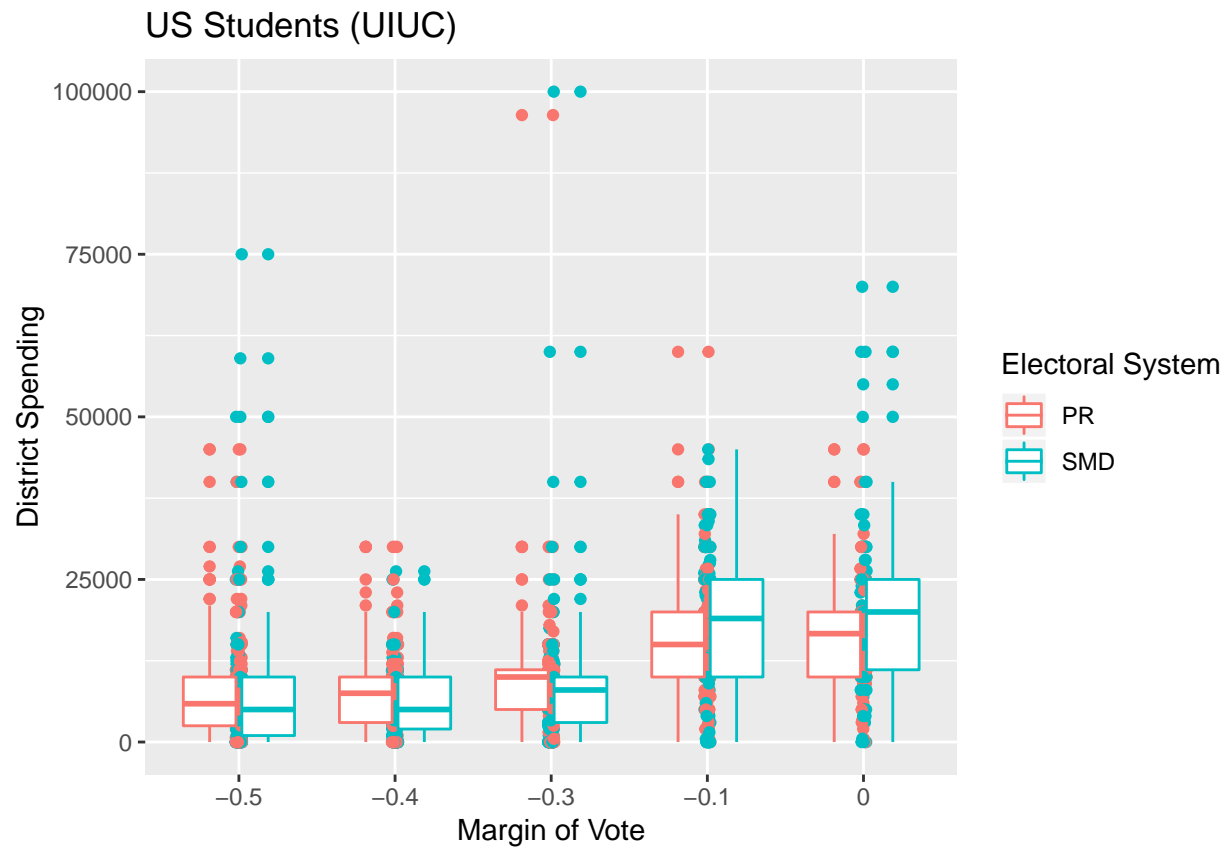
Table 4: Electoral Institutions and Competitiveness (UIUC students)

	Dependent variable:
	District Spending
Competitive (Binary)	8,116***
	(538)
SMD (Binary)	−1,048**
	(459)
SMD * Competitive	3,282***
	(796)
Constant	8,296***
	(310)
Observations	2,070
R^2	0
Adjusted R^2	0
Residual Std. Error	8,502 (df = 2066)
F Statistic	202*** (df = 3; 2066)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 5: Electoral Institutions and Competitiveness (ITAM)

	Dependent variable:
	District Spending
Competitive (Binary)	8,427***
	(635)
SMD (Binary)	−921*
	(511)
SMD * Competitive	2,891***
	(885)
Constant	8,220***
	(366)
Observations	1,278
R^2	0
Adjusted R^2	0
Residual Std. Error	7,454 (df = 1274)
F Statistic	171*** (df = 3; 1274)
Note:	*p<0.1; **p<0.05; ***p<0.01

Mexican Students (ITAM)

US Students (UIUC)

ITAM & UIUC (Pooled)

Table 6: ITAM and UIUC (Pooled)

	Competitive	Stronghold
SMD	18,634	7,269
PR	16,496	8,269
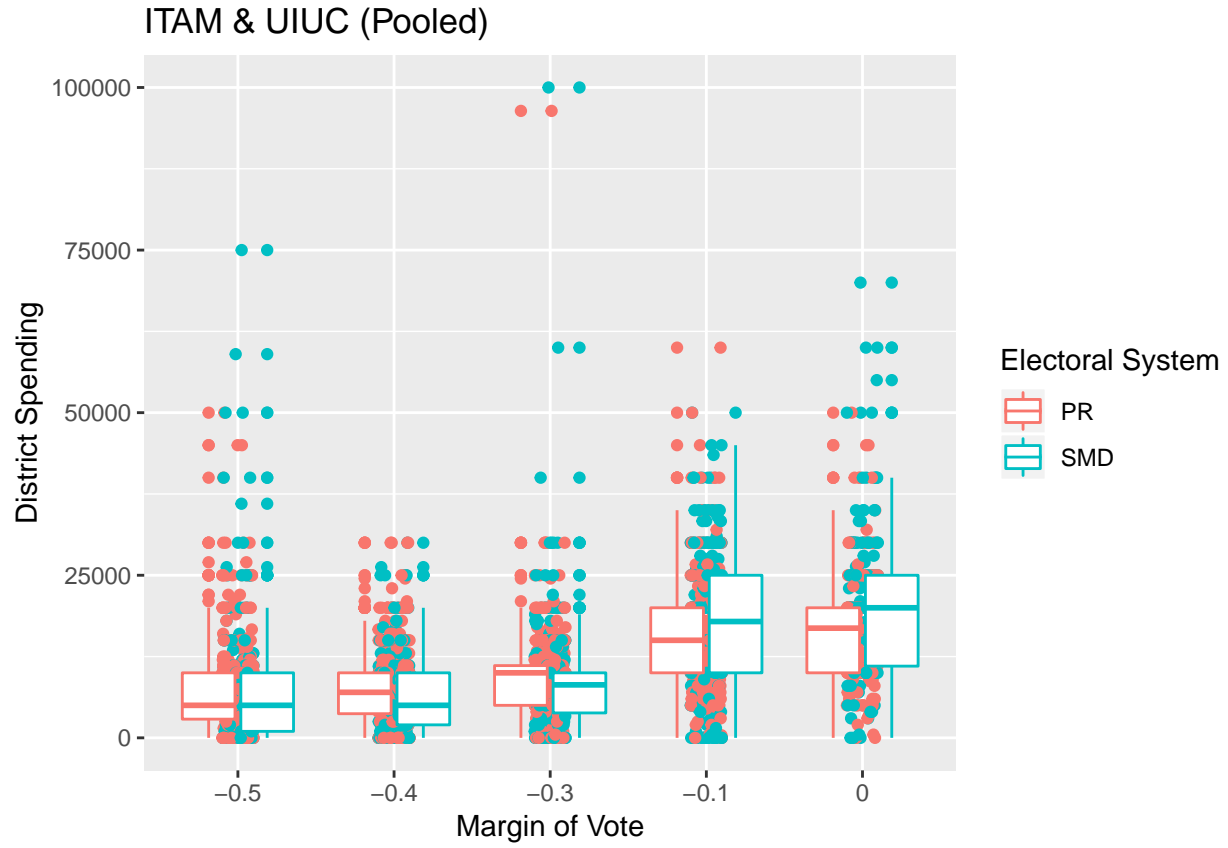
ITAM & UIUC (Pooled)

Table 7: Electoral Institutions and Competitiveness (Pooled Data)

	Dependent variable:
	District Spending
Competitive (Binary)	8,227***
	(412)
SMD (Binary)	−1,000***
	(344)
SMD * Competitive	3,138***
	(595)
Constant	8,269***
	(238)
Observations	3,348
R^2	0
Adjusted R^2	0
Residual Std. Error	8,113 (df = 3344)
F Statistic	366*** (df = 3; 3344)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 8: Electoral Institutions and Competitiveness

	Dependent variable:		
	District Spending		
	ITAM	UIUC	Pooled
	(1)	(2)	(3)
Competitive (Binary)	8,427***	8,116***	8,227***
	(635)	(538)	(412)
SMD (Binary)	−921*	−1,048**	−1,000***
	(511)	(459)	(344)
SMD * Competitive	2,891***	3,282***	3,138***
	(885)	(796)	(595)
Constant	8,220***	8,296***	8,269***
	(366)	(310)	(238)
Observations	1,278	2,070	3,348
R^2	0	0	0
Adjusted R^2	0	0	0
Note:		*p<0.1; **p<0.05; ***p<0.01	