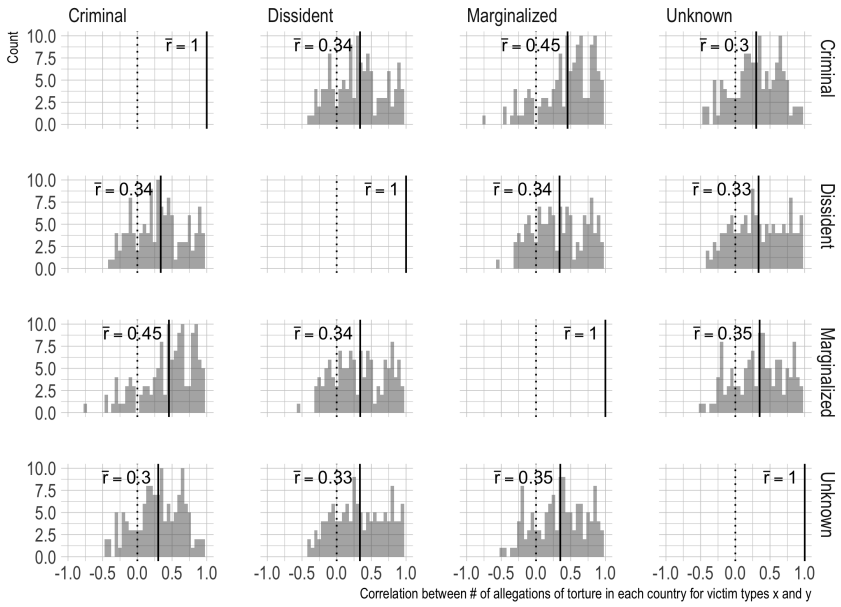
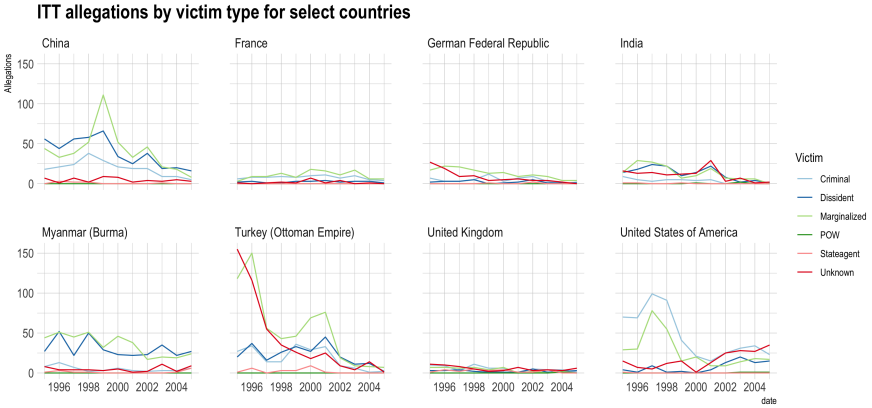
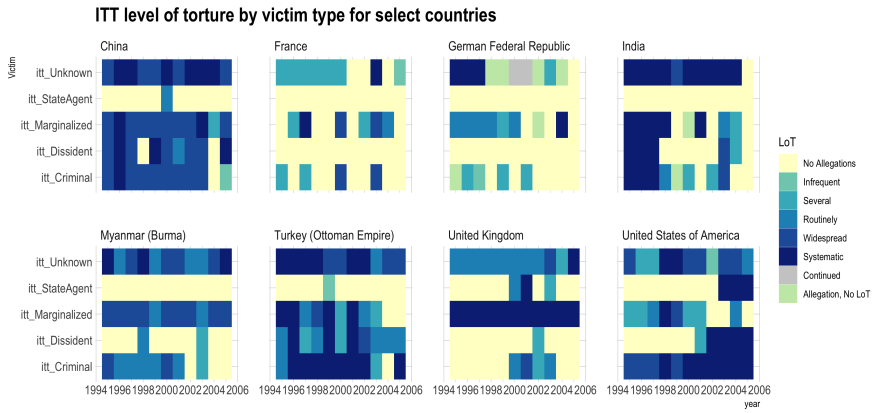
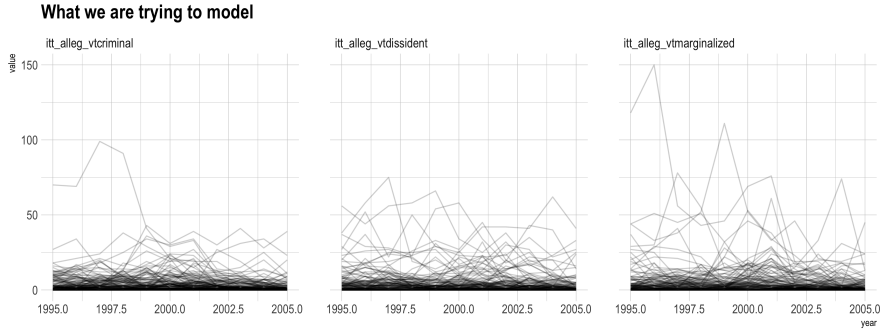
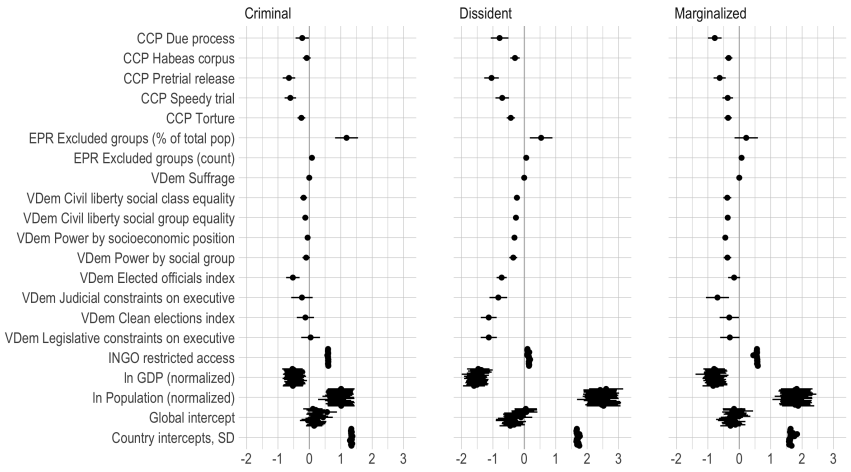
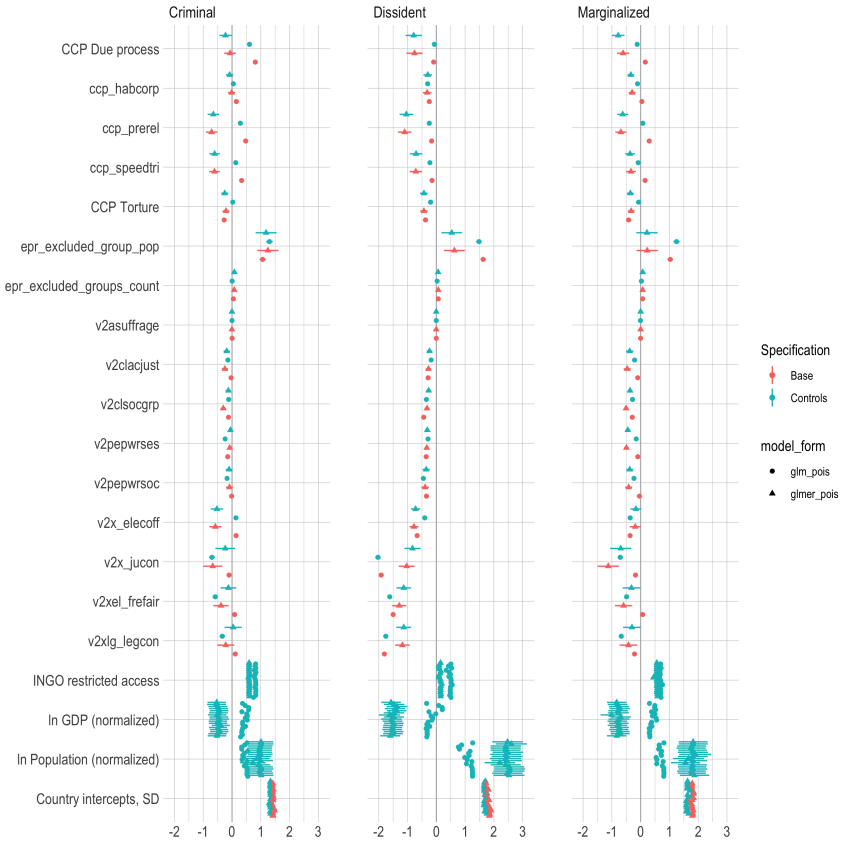

Criminal
Dissident
Marginalized
Unknown
Count
10.0
7.5
5.0
2.5
0.0
r̄ = 1
r̄ = 0.34
r̄ = 0.45
r̄ = 0.3
r̄ = 0.34
r̄ = 1
r̄ = 0.34
r̄ = 0.33
r̄ = 0.45
r̄ = 0.34
r̄ = 1
r̄ = 0.35
r̄ = 0.3
r̄ = 0.33
r̄ = 0.35
r̄ = 1
-1.0 -0.5 0.0 0.5 1.0
Correlation between # of allegations of torture in each country for victim types x and y

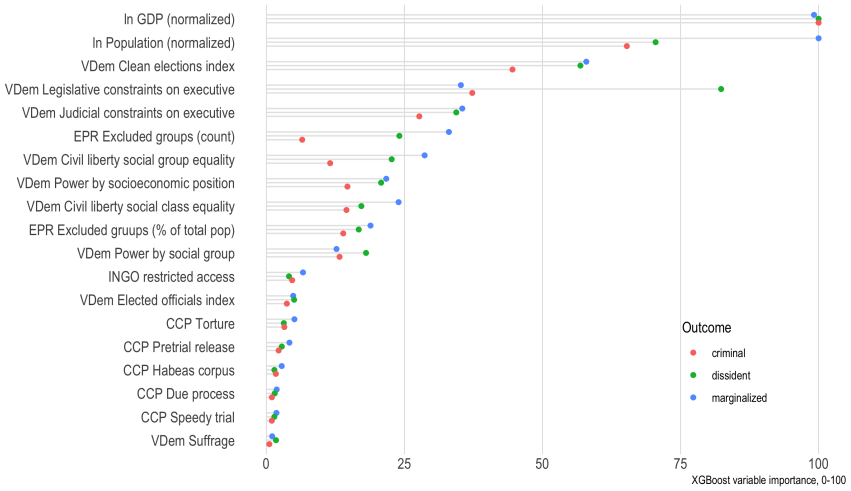

ITT allegations by victim type for select countries
China
France
German Federal Republic
India
Myanmar (Burma)
Turkey (Ottoman Empire)
United Kingdom
United States of America
Allegations
150
100
50
0
1996 1998 2000 2002 2004
date
Victim
Criminal
Dissident
Marginalized
POW
Stateagent
Unknown

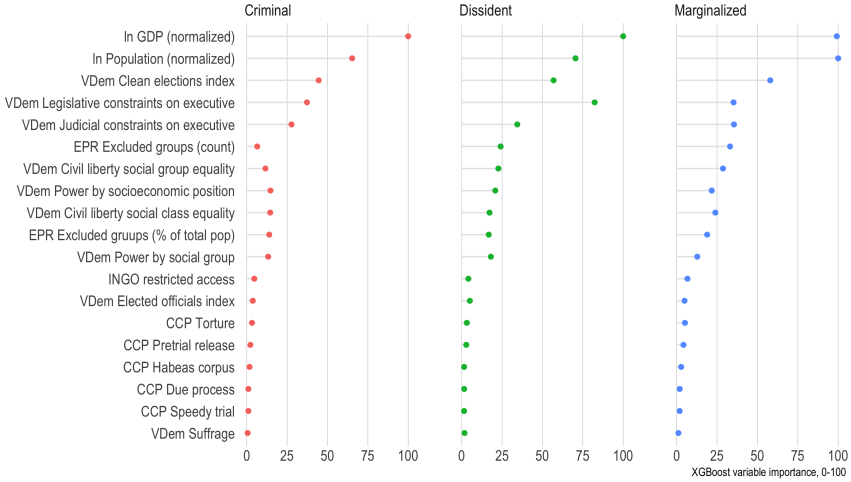

ITT level of torture by victim type for select countries
China
France
German Federal Republic
India
Myanmar (Burma)
Turkey (Ottoman Empire)
United Kingdom
United States of America
Victim
itt_Unknown
itt_StateAgent
itt_Marginalized
itt_Dissident
itt_Criminal
1994 1996 1998 2000 2002 2004 2006
year
LoT
No Allegations
Infrequent
Several
Routinely
Widespread
Systematic
Continued
Allegation, No LoT


What we are trying to model
itt_alleg_vtcriminal
itt_alleg_vtdissident
itt_alleg_vtmarginalized
value
150
100
50
0
1995.0
1997.5
2000.0
2002.5
2005.0
year


Criminal
Dissident
Marginalized
CCP Due process
CCP Habeas corpus
CCP Pretrial release
CCP Speedy trial
CCP Torture
EPR Excluded groups (% of total pop)
EPR Excluded groups (count)
VDem Suffrage
VDem Civil liberty social class equality
VDem Civil liberty social group equality
VDem Power by socioeconomic position
VDem Power by social group
VDem Elected officials index
VDem Judicial constraints on executive
VDem Clean elections index
VDem Legislative constraints on executive
INGO restricted access
ln GDP (normalized)
ln Population (normalized)
Global intercept
Country intercepts, SD
-2
-1
0
1
2
3


Criminal
Dissident
Marginalized
CCP Due process
ccp_habcorp
ccp_prerel
ccp_speedtri
CCP Torture
epr_excluded_group_pop
epr_excluded_groups_count
v2asuffrage
v2clacjust
v2clsocgrp
v2pepwrses
v2pepwrsoc
v2x_elecoff
v2x_jucon
v2xel_frefair
v2xlg_legcon
INGO restricted access
ln GDP (normalized)
ln Population (normalized)
Country intercepts, SD
-2
-1
0
1
2
3
Specification
Base
Controls
model_form
glm_pois
glmer_pois


ln GDP (normalized)
ln Population (normalized)
VDem Clean elections index
VDem Legislative constraints on executive
VDem Judicial constraints on executive
EPR Excluded groups (count)
VDem Civil liberty social group equality
VDem Power by socioeconomic position
VDem Civil liberty social class equality
EPR Excluded gruups (% of total pop)
VDem Power by social group
INGO restricted access
VDem Elected officials index
CCP Torture
CCP Pretrial release
CCP Habeas corpus
CCP Due process
CCP Speedy trial
VDem Suffrage
Outcome
criminal
dissident
marginalized
0
25
50
75
100
XGBoost variable importance, 0-100


Criminal
Dissident
Marginalized
ln GDP (normalized)
ln Population (normalized)
VDem Clean elections index
VDem Legislative constraints on executive
VDem Judicial constraints on executive
EPR Excluded groups (count)
VDem Civil liberty social group equality
VDem Power by socioeconomic position
VDem Civil liberty social class equality
EPR Excluded gruups (% of total pop)
VDem Power by social group
INGO restricted access
VDem Elected officials index
CCP Torture
CCP Pretrial release
CCP Habeas corpus
CCP Due process
CCP Speedy trial
VDem Suffrage
0
25
50
75
100
XGBoost variable importance, 0-100

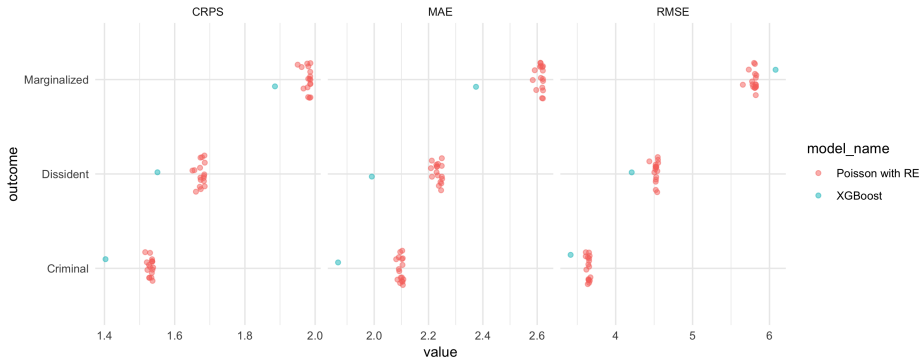

CRPS
MAE
RMSE
Marginalized
Dissident
Criminal
outcome
1.4
1.6
1.8
2.0
2.0
2.2
2.4
2.6
4
5
6
value
model_name
Poisson with RE
XGBoost

Table 1:

	Dependent variable:								
	itt_alleg_vtcriminal								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ccp_torture		-0.254^{***}							
		(0.063)							
ccp_prerel			-0.650^{***}						
			(0.102)						
ccp_habcorp				-0.083					
				(0.064)					
ccp_dueproc					-0.227^{**}				
					(0.108)				
ccp_speedtri						-0.606^{***}			
						(0.093)			
v2x_elecoff							-0.526^{***}		
							(0.109)		
v2xel_frefair								-0.127	
								(0.139)	
v2asuffrage									-0.003^{***}
									(0.001)
norm_ln_NY.GDP.MKTP.KD	-0.531^{***}	-0.487^{***}	-0.444^{***}	-0.506^{***}	-0.525^{***}	-0.451^{***}	-0.451^{***}	-0.494^{***}	-0.491^{***}
	(0.164)	(0.159)	(0.163)	(0.163)	(0.164)	(0.161)	(0.165)	(0.169)	(0.164)
norm_ln_pop	1.007^{***}	0.997^{***}	0.953^{***}	1.000^{***}	1.013^{***}	1.014^{***}	0.951^{***}	0.981^{***}	0.995^{***}
	(0.218)	(0.215)	(0.222)	(0.217)	(0.219)	(0.218)	(0.221)	(0.219)	(0.218)
itt_RstrctAccess	0.595^{***}	0.605^{***}	0.592^{***}	0.601^{***}	0.604^{***}	0.599^{***}	0.594^{***}	0.593^{***}	0.592^{***}
	(0.041)	(0.041)	(0.041)	(0.041)	(0.041)	(0.041)	(0.041)	(0.041)	(0.041)
Constant	0.135	0.276^{**}	0.240^{*}	0.183	0.152	0.264^{**}	0.564^{***}	0.203	0.437^{***}
	(0.132)	(0.135)	(0.136)	(0.137)	(0.133)	(0.134)	(0.160)	(0.151)	(0.157)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	$-3,834.972$	$-3,826.947$	$-3,814.044$	$-3,834.140$	$-3,832.781$	$-3,812.073$	$-3,823.631$	$-3,834.563$	$-3,828.828$
Akaike Inf. Crit.	7,679.944	7,665.893	7,640.088	7,680.280	7,677.562	7,636.145	7,659.262	7,681.127	7,669.655
Bayesian Inf. Crit.	7,706.999	7,698.359	7,672.554	7,712.746	7,710.028	7,668.611	7,691.728	7,713.592	7,702.121

Note: *p<0.1; **p<0.05; ***p<0.01

Table 2:

	Dependent variable:							
	itt_alleg_vtcriminal							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
v2x_jucon	−0.237							
	(0.174)							
v2xlg_legcon		0.040						
		(0.153)						
v2clacjust			−0.184***					
			(0.057)					
v2clsocgrp				−0.129***				
				(0.048)				
v2pepwrses					−0.056			
					(0.040)			
v2pepwrsoc						−0.102*		
						(0.060)		
epr_excluded_groups_count							0.081***	
							(0.018)	
epr_excluded_group_pop								1.184***
								(0.186)
norm_ln_NY.GDP.MKTP.KD	−0.470***	−0.539***	−0.444**	−0.461***	−0.516***	−0.473***	−0.486***	−0.391**
	(0.169)	(0.167)	(0.173)	(0.166)	(0.165)	(0.168)	(0.164)	(0.161)
norm_ln_pop	0.960***	1.012***	0.861***	0.936***	0.984***	0.967***	0.724***	0.915***
	(0.219)	(0.219)	(0.227)	(0.220)	(0.218)	(0.218)	(0.228)	(0.213)
itt_RstrctAccess	0.590***	0.596***	0.595***	0.571***	0.595***	0.601***	0.605***	0.594***
	(0.041)	(0.041)	(0.041)	(0.042)	(0.041)	(0.041)	(0.041)	(0.041)
Constant	0.271	0.112	0.313**	0.257*	0.166	0.204	0.017	−0.045
	(0.165)	(0.158)	(0.146)	(0.140)	(0.134)	(0.138)	(0.136)	(0.131)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	−3,834.055	−3,834.939	−3,829.660	−3,831.367	−3,833.977	−3,833.546	−3,824.012	−3,812.880
Akaike Inf. Crit.	7,680.110	7,681.878	7,671.319	7,674.734	7,679.955	7,679.092	7,660.025	7,637.761
Bayesian Inf. Crit.	7,712.576	7,714.343	7,703.785	7,707.199	7,712.420	7,711.558	7,692.491	7,670.227

Note: *p<0.1; **p<0.05; ***p<0.01

Table 3:

	Dependent variable:								
	itt_alleg_vtdissident								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ccp_torture		-0.431^{***}							
		(0.067)							
ccp_prerel			-1.045^{***}						
			(0.118)						
ccp_habcorp				-0.298^{***}					
				(0.076)					
ccp_dueproc					-0.788^{***}				
					(0.143)				
ccp_speedtri						-0.704^{***}			
						(0.110)			
v2x_elecoff							-0.723^{***}		
							(0.082)		
v2xel_frefair								-1.134^{***}	
								(0.129)	
v2asuffrage									-0.004^{***}
									(0.001)
norm_ln_NY.GDP.MKTP.KD	-1.574^{***}	-1.523^{***}	-1.486^{***}	-1.509^{***}	-1.603^{***}	-1.533^{***}	-1.379^{***}	-1.368^{***}	-1.524^{***}
	(0.176)	(0.171)	(0.175)	(0.174)	(0.178)	(0.176)	(0.173)	(0.184)	(0.175)
norm_ln_pop	2.475^{***}	2.534^{***}	2.526^{***}	2.462^{***}	2.523^{***}	2.548^{***}	2.410^{***}	2.416^{***}	2.447^{***}
	(0.270)	(0.266)	(0.273)	(0.266)	(0.275)	(0.272)	(0.266)	(0.273)	(0.269)
itt_RstrctAccess	0.147^{***}	0.140^{***}	0.140^{***}	0.156^{***}	0.149^{***}	0.151^{***}	0.157^{***}	0.093^{**}	0.149^{***}
	(0.042)	(0.042)	(0.042)	(0.042)	(0.042)	(0.042)	(0.042)	(0.043)	(0.042)
Constant	-0.504^{***}	-0.283^{*}	-0.378^{**}	-0.326^{*}	-0.446^{**}	-0.368^{**}	0.064	0.052	-0.108
	(0.172)	(0.171)	(0.174)	(0.175)	(0.176)	(0.174)	(0.180)	(0.181)	(0.183)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	$-3,855.179$	$-3,834.206$	$-3,813.040$	$-3,847.519$	$-3,839.089$	$-3,833.308$	$-3,818.482$	$-3,816.788$	$-3,838.051$
Akaike Inf. Crit.	7,720.357	7,680.413	7,638.080	7,707.039	7,690.179	7,678.617	7,648.964	7,645.575	7,688.103
Bayesian Inf. Crit.	7,747.412	7,712.878	7,670.546	7,739.504	7,722.645	7,711.082	7,681.429	7,678.041	7,720.569

Note: *p<0.1; **p<0.05; ***p<0.01

Table 4:

	Dependent variable:							
	itt_alleg_vtdissident							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
v2x_jucon	-0.829^{***}							
	(0.143)							
v2xlg_legcon		-1.132^{***}						
		(0.131)						
v2clacjust			-0.237^{***}					
			(0.050)					
v2clsocgrp				-0.267^{***}				
				(0.046)				
v2pepwrses					-0.315^{***}			
					(0.036)			
v2pepwrsoc						-0.353^{***}		
						(0.064)		
epr_excluded_groups_count							0.061^{***}	
							(0.014)	
epr_excluded_group_pop								0.535^{***}
								(0.184)
norm_ln_NY.GDP.MKTP.KD	-1.441^{***}	-1.467^{***}	-1.560^{***}	-1.480^{***}	-1.629^{***}	-1.473^{***}	-1.480^{***}	-1.502^{***}
	(0.181)	(0.182)	(0.184)	(0.179)	(0.186)	(0.183)	(0.174)	(0.176)
norm_ln_pop	2.411^{***}	2.605^{***}	2.405^{***}	2.456^{***}	2.411^{***}	2.486^{***}	2.207^{***}	2.414^{***}
	(0.268)	(0.277)	(0.279)	(0.272)	(0.276)	(0.271)	(0.271)	(0.267)
itt_RstrctAccess	0.104^{**}	0.100^{**}	0.142^{***}	0.091^{**}	0.093^{**}	0.139^{***}	0.184^{***}	0.159^{***}
	(0.043)	(0.043)	(0.042)	(0.043)	(0.043)	(0.042)	(0.042)	(0.042)
Constant	-0.048	0.046	-0.309^{*}	-0.297^{*}	-0.332^{*}	-0.306^{*}	-0.574^{***}	-0.575^{***}
	(0.185)	(0.182)	(0.182)	(0.175)	(0.177)	(0.172)	(0.169)	(0.171)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	$-3,838.513$	$-3,817.959$	$-3,843.958$	$-3,837.750$	$-3,816.799$	$-3,839.851$	$-3,845.627$	$-3,850.900$
Akaike Inf. Crit.	7,689.026	7,647.919	7,699.916	7,687.500	7,645.597	7,691.702	7,703.254	7,713.801
Bayesian Inf. Crit.	7,721.491	7,680.385	7,732.382	7,719.966	7,678.063	7,724.168	7,735.720	7,746.266

Note: *p<0.1; **p<0.05; ***p<0.01

Table 5:

	Dependent variable:								
	itt_alleg_vtmarginalized								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ccp_torture		-0.357^{***}							
		(0.061)							
ccp_prerel			-0.625^{***}						
			(0.099)						
ccp_habcorp				-0.340^{***}					
				(0.061)					
ccp_dueproc					-0.782^{***}				
					(0.111)				
ccp_speedtri						-0.369^{***}			
						(0.086)			
v2x_elecoff							-0.165^{*}		
							(0.097)		
v2xel_frefair								-0.320^{**}	
								(0.156)	
v2asuffrage									-0.001
									(0.001)
norm_ln_NY.GDP.MKTP.KD	-0.833^{***}	-0.738^{***}	-0.714^{***}	-0.710^{***}	-0.831^{***}	-0.763^{***}	-0.783^{***}	-0.754^{***}	-0.813^{***}
	(0.173)	(0.166)	(0.170)	(0.168)	(0.174)	(0.171)	(0.174)	(0.178)	(0.173)
norm_ln_pop	1.824^{***}	1.790^{***}	1.763^{***}	1.777^{***}	1.874^{***}	1.818^{***}	1.803^{***}	1.774^{***}	1.817^{***}
	(0.256)	(0.250)	(0.253)	(0.250)	(0.261)	(0.253)	(0.254)	(0.257)	(0.255)
itt_RstrctAccess	0.564^{***}	0.577^{***}	0.563^{***}	0.583^{***}	0.590^{***}	0.573^{***}	0.566^{***}	0.562^{***}	0.565^{***}
	(0.038)	(0.038)	(0.038)	(0.039)	(0.039)	(0.038)	(0.038)	(0.038)	(0.038)
Constant	-0.327^{**}	-0.123	-0.225	-0.125	-0.280^{*}	-0.244	-0.194	-0.160	-0.238
	(0.163)	(0.162)	(0.162)	(0.163)	(0.166)	(0.162)	(0.179)	(0.182)	(0.179)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	$-4,203.589$	$-4,186.348$	$-4,182.659$	$-4,188.072$	$-4,178.377$	$-4,194.042$	$-4,202.182$	$-4,201.535$	$-4,202.937$
Akaike Inf. Crit.	8,417.178	8,384.697	8,377.317	8,388.144	8,368.754	8,400.084	8,416.364	8,415.071	8,417.874
Bayesian Inf. Crit.	8,444.233	8,417.162	8,409.783	8,420.609	8,401.220	8,432.550	8,448.829	8,447.536	8,450.340

Note: *p<0.1; **p<0.05; ***p<0.01

Table 6:

	Dependent variable:							
	itt_alleg_vtmarginalized							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
v2x_jucon	−0.696***							
	(0.187)							
v2xlg_legcon		−0.301*						
		(0.157)						
v2clacjust			−0.382***					
			(0.065)					
v2clsocgrp				−0.369***				
				(0.039)				
v2pepwrses					−0.446***			
					(0.044)			
v2pepwrsoc						−0.378***		
						(0.062)		
epr_excluded_groups_count							0.072***	
							(0.017)	
epr_excluded_group_pop								0.220
								(0.190)
norm_ln_NY.GDP.MKTP.KD	−0.732***	−0.802***	−0.751***	−0.692***	−1.012***	−0.772***	−0.757***	−0.805***
	(0.179)	(0.175)	(0.187)	(0.178)	(0.195)	(0.184)	(0.171)	(0.174)
norm_ln_pop	1.753***	1.828***	1.664***	1.814***	1.899***	1.820***	1.560***	1.807***
	(0.258)	(0.257)	(0.274)	(0.263)	(0.283)	(0.269)	(0.258)	(0.255)
itt_RstrctAccess	0.553***	0.562***	0.561***	0.445***	0.516***	0.563***	0.576***	0.565***
	(0.039)	(0.038)	(0.039)	(0.041)	(0.039)	(0.039)	(0.038)	(0.038)
Constant	0.060	−0.168	−0.005	−0.050	−0.139	−0.108	−0.425***	−0.359**
	(0.193)	(0.183)	(0.182)	(0.167)	(0.183)	(0.174)	(0.161)	(0.164)
Observations	1,654	1,654	1,654	1,654	1,654	1,654	1,654	1,654
Log Likelihood	−4,196.657	−4,201.765	−4,185.625	−4,156.688	−4,148.376	−4,184.121	−4,194.799	−4,202.917
Akaike Inf. Crit.	8,405.314	8,415.529	8,383.249	8,325.377	8,308.752	8,380.243	8,401.599	8,417.834
Bayesian Inf. Crit.	8,437.779	8,447.995	8,415.715	8,357.842	8,341.218	8,412.708	8,434.064	8,450.300

Note: *p<0.1; **p<0.05; ***p<0.01