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What Causes Ministers of Finance to Get Fired?

Written by: Bradley Turner
Advised by: Professor Guillermo Vuletin
EC494: Independent Study—Honors Project
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Abstract:

This paper seeks to establish the determinants of turnover in finance ministers. Based on an original worldwide data set, political and economic factors are considered for 58 countries. While the same political factors affect Minister of Finance turnover in both advanced and developing economies, the economic variables that matter differ between the sub-samples. Finance minister turnover is higher during years that there is also presidential turnover. Further, emerging economies have a higher Minister of Finance turnover than developed economies during years without presidential turnover. Results largely hold for robustness checks.

I'd like to thank my advisor Professor Guillermo Vuletin for his help and guidance over this process and throughout my time as a research assistant. I'd also like to thank my second reader and first economics professor at Colby, Professor Gunter, as well as the rest of the Economics Department.

1. Introduction

This paper is motivated by the well-established literature on central bank independence (CBI). A central debate within this literature is the direction of causality: does high inflation cause central bankers to get fired, or does a change in central bank governor, at least above some threshold, cause higher inflation? Dreher, Sturm, and de Haan question the causality direction in their 2008 paper, “Does high inflation cause central bankers to lose their job? Evidence based on a new data set,” ultimately postulating that after instrumenting for turnover rate endogeneity, high inflation caused central bankers to get fired, not the other way around. The idea being that a high inflation rate represents a failing of the central banker to meet his/her mandate or mission statement of the Ministry. Although the exact goals vary, maintaining price stability or low to moderate inflation is a common theme among central bankers. And just as with the central banks, various finance ministries have different duties and specific mandates (hence why some nations employ the title Ministry of Economy) but, there are common, overarching themes: managing federal finances, collecting taxes & paying government bills, and currency and coinage.

In a similar vein to the literature on central bank independence, this paper examines turnover in finance ministers and what causes them to get fired. No paper has been written on this topic. Motivated by the literature on central bank independence and this literature gap, I assembled an original, worldwide data with economic and political variables on 58 countries set at the quarterly and annual frequency. The data set captures turnover in Ministries of Finance (MOF), presidents, and other top government ministries. Unlike central bankers, the president usually appoints finance ministers. Hence, we are likely to see greater MOF turnover during years when there is presidential or cabinet turnover. By collecting turnover data on ministries

unrelated to the economy, I am able to better tease out cabinet changes exogenous to economic activity.

Using a conditional logistic model, I regress the change in minister of finance against political factors, then adding economic factors. I then go on to differentiate between advanced and emerging economies, and ultimately introduce a variable capturing default crises for developing economies. The paper proceeds as follows. Section 2 introduces the data set. In Section 3, I discuss the model specifications. Section 4 gives results and, in Section 5, some robustness checks. Section 6 presents my concluding remarks.

2. Data set

For the purpose of this paper, I collected an original, worldwide data set containing political and economic variables on 58 countries (Table 1). The data was collected from the Rulers of the World website and economic variables gathered from central banks and Ministries of Finance. Aside from turnover in finance ministers, I also gathered information on presidential turnover (*pres*) as well as other ministries unrelated to the economy, such as Defense (MOD), Foreign Affairs (MOFA) and Interior (MOI), at quarterly and annual frequency. Since the president usually appoints the finance minister, I collected data on turnover in other ministries unrelated to the economy to capture cabinet-wide changes unmotivated by economic conditions.

The data set has upwards of 23,000 observations as well as observations for 2000 individual MOF changes, 1597 presidential changes, 1776 changes in MOD, 1742 for MOFA, and 1990 changes at various DOI. The data set also contains both the political and economic variables at quarterly frequency (Table 2). I also recorded a dummy variable for each executive branch post

to capture officials serving an abbreviated or “acting” term; usually this occurs when a minister or president is serving another’s behalf. The official’s name, dates in office, gender, and, in some cases, political party are captured for each of the four ministries examined (Fig 1).

Country specific studies involving political parties can be teased out of the data set, and creating a gender dummy is even possible. The time horizons vary for each sample country from the Slovak Republic’s 19 to the United Kingdom’s 322 years of data. The mean time horizon for each sample country is roughly 76 years (median of 67).

country	ifs	year	quarter	mfinance	mof	mof_a
Poland	964	1988	1		0	0
Poland	964	1988	2		0	0
Poland	964	1988	3		0	0
Poland	964	1988	4	14 Oct 1988 - 1 Aug 1989 Andrzej Wróblewski PZPR (b. 1950)	1	0
Poland	964	1989	1		0	0
Poland	964	1989	2		0	0
Poland	964	1989	3	1 Aug 1989 - 12 Sep 1989 Wincenty Lewandowski (acting) - (b. 1937)	2	1
Poland	964	1989	4	12 Sep 1989 - 23 Dec 1991 Leszek Balcerowicz (1st time) NSZZ/UD (0	0
Poland	964	1990	1		0	0

Fig 1. Screenshot of data set

There is a great degree of volatility in the mean MOF turnover, even between advanced and emerging economies (Fig. 2). The entire sample mean turnover rate for finance ministers is 0.4461 years, or alternatively a new MOF every 2.24 years on average. There is no significant difference when comparing the averages between advanced and developing countries. With the exception of Greece, no sample country averages a TOR above 1 finance minister per year. Turnover typically does not exceed 1 minister per year except in incidences of crises and other exigent circumstances. Incidents are so infrequent that for the purpose of this paper I consider whether or not there was a change, not the number of changes in MOF.

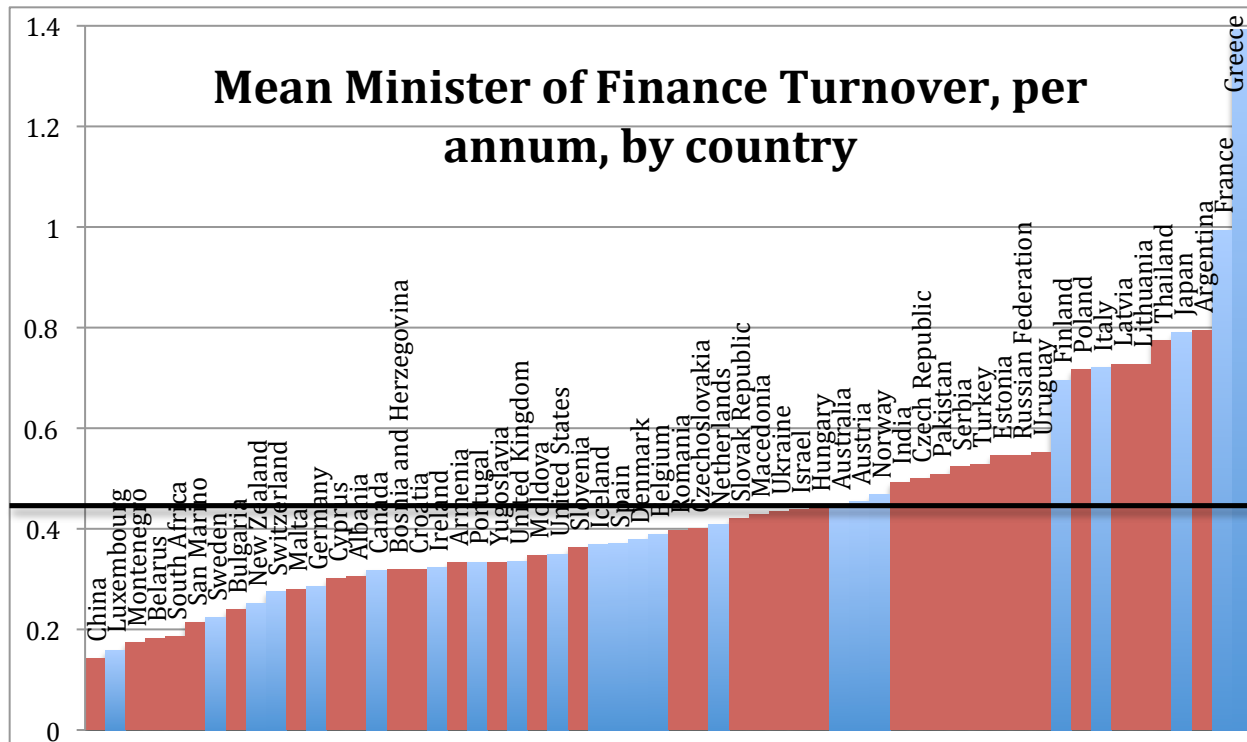


Fig 2: Mean annual turnover rate for finance ministers. Advanced economies in red, emerging in blue. Bar marks sample average, 0.4461

As finance ministers are appointed, it would follow that we see a higher turnover in ministers during years that there is a presidential change as opposed to when there is no presidential turnover in the same year (Fig 3). The core idea being that newly heads of government are more likely to appoint top ministers of their own choosing. Mean presidential turnover typically doesn't exceed 1 per annum with the exceptions of: Switzerland, Greece, Bosnia and Herzegovina, and San Marino¹. The whole sample averages a finance minister turnover of 0.6960 during years that the president also changes². When there is no presidential turnover, MOF turnover averages 0.3216. Developed economies average 0.6868 changes in finance minister when there is a presidential change, as compared to 0.3025 during years that there is no presidential change. Emerging economies average a MOF turnover of 0.7190 and .3529 per annum respectively. There are two takeaways from this brief non-parametric analysis:

- Advanced and developing economies have a very similar finance minister turnover rate during years when there is also presidential turnover
- During years when there is no presidential turnover, emerging economies, on average, have a higher turnover in finance ministers (0.3529 versus 0.3025)

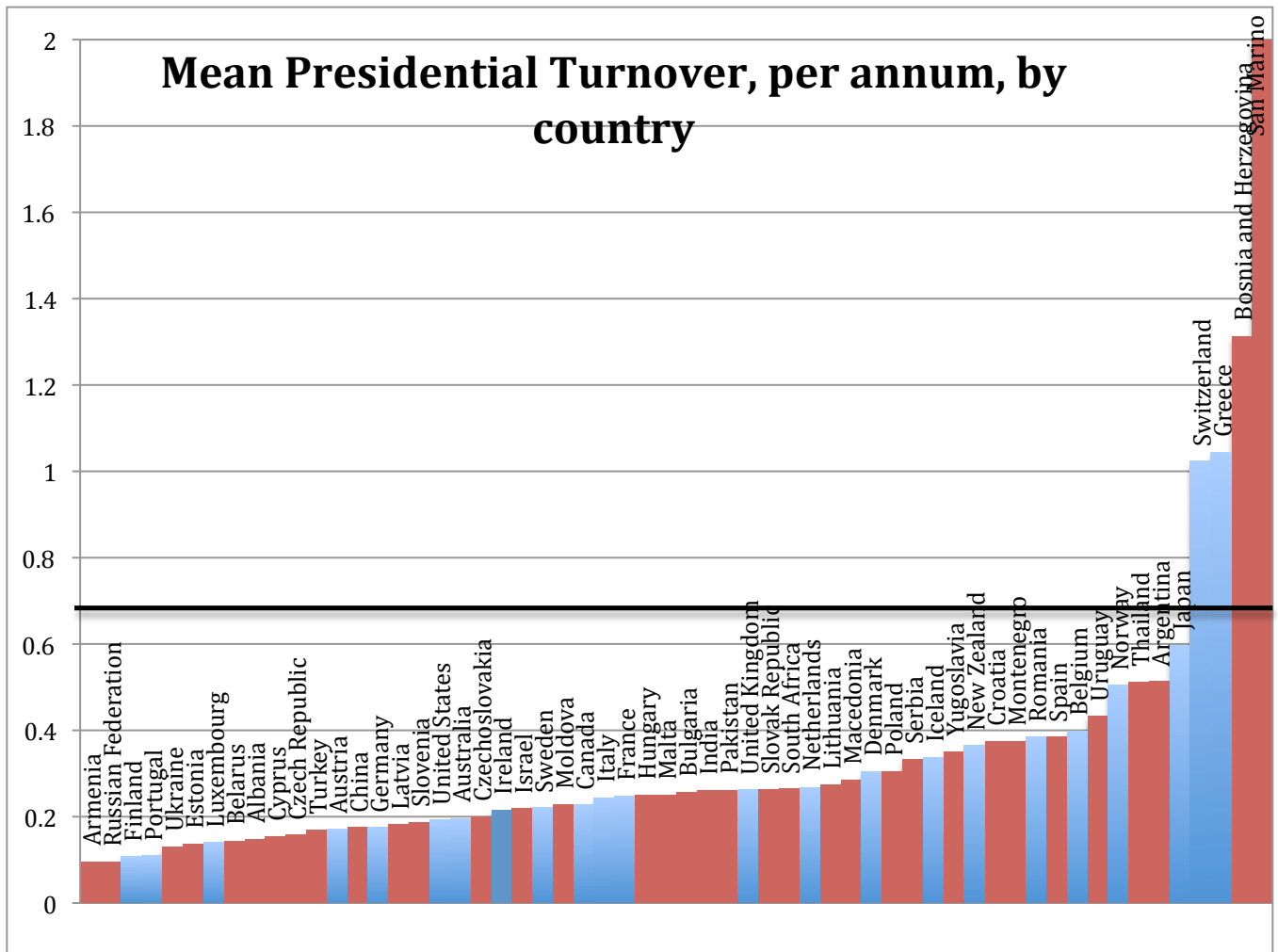


Fig 3 Mean annual presidential TOR, Advanced economies in red, emerging in blue. Horizontal bar shows sample mean average, 0.6960

3. Model Estimation & Econometric Approach

While there are instances in which more than one minister is replaced each year, they are infrequent, except in the case of Greece. I define a new variable *change* which is simply a dummy=1 when there is a change in finance minister, allowing us to use a conditional logistic regression model. I regress the binary variable *change* first on political variables: presidential turnover along with MOD, MOFA, and MOI. I then add economic variables, and then move on to split the sample and compare results for advanced and emerging economies, ultimately adding a default dummy for developing economies.

4. Results

Results for the initial regression are displayed in Table 1. All four political turnover variables have positive coefficients and are statistically significant at the 1-percent level. This follows the initial supposition that presidential changes as well as cabinet changes increase the probability of turnover in the finance ministry. Interestingly enough, changes in the Minister of Defense have the most explanatory power. When the economic variables are added, we first notice inflation is insignificant. Apparently inflation doesn't matter for finance ministers after all. However, the growth rate of real gdp (*change_rgdp*) does matter—it is negative and statistically significant at the 5-percent level. A positive growth rate decreases a finance minister's chances of being replaced—when the economy is booming and tax revenues are up, the inherent or systematic likelihood of a minister failing the ministry's goals or mandate decreases.

However, when we divide the sample into sub-samples (advanced and emerging economies), different pictures emerge. Firstly, when only developed economies are considered, the political variables remain significant however *change_rgd* is no longer significant, but inflation (*inf*) is significant at the 10-percent level. This is to be rationalized as follows: more developed economies have Ministries of Finance that are seen as “economic stewards” as is the case in the United States, and the turnover in MOF responds to changes in general or economy-wide health, captured by the inflation rate (*inf*).

The picture is slightly different for emerging economies. Here I introduce a dummy variable allowing us to control for incidents of default (*default*) in emerging economies. There are insufficient observations of default among this sample’s advanced economies. It follows from the Ministry of Finance’s duties that a default episode signals a grave error or at the least a serious violation of the Ministry’s mandate or mission statement—mangling the federal finances, collecting taxes, paying the government’s bills. Default incidents have strong predictive power at the 5-percent level, bolstering the pseudo-R2 from 0.236 to 0.252. Further *change_rgd* still has some predictive power for lesser-developed economies, however it is now only significant at the 10-percent level. This makes more intuitive sense in the context of developing countries where fiscal policy tends to be strongly procyclical. The Ministers of Finance have relative job security during good times when tax revenues are up, decreasing the inherent chance of being a “bad” finance minister.

5. Robustness Checks

Inflation, change in RGDP, IMF programs, and default are all significant on their own, and most remain significant when considering all economic variables. However some economic variables lose significance when political variables are added. I'm concerned particularly with presidents who get the blame for bad economic conditions, either through not winning reelection or another presidential turnover mechanism. It is possible that presidential turnover is essentially taking the juice out of the economic variables. So here I perform a robustness check: I run the same regression panel for years in which there is no presidential turnover ($pres==0$). The Ministry variables remain significant (MOD, MOFAR, MOI). For the entire sample default incidences (*default*) remain significant (Table 6). Additionally, IMF programs (*imf_prog*) have become significant. If there isn't presidential turnover and there is an IMF program, a finance minister's probability of turnover increases 0.543.

Splitting the sample, inflation (*inf*) remains significant as in the economic variable set, however it just barely falls out of the conventional 10-percent significance cut-off (Table 7, Regressions 9 and 10). In the emerging economies sub-sample, only the ministry turnover variables and default survive the robustness check.

6. Conclusion

Finance minister turnover has a lot of variability, even between sub-samples. On average, MOF turnover is relatively similar between advanced and emerging economies, except developing economies have a higher replacement rate for finance ministers relative to advanced economies

during years which there is no presidential turnover (0.3529 versus 0.3025). Greece has the highest mean MOF turnover, while China has the lowest. The same political variables affect both developed and emerging economies, however the economic variables of importance differ. Inflation matters more for MOF turnover in advanced economies—in keeping with the view of finance ministries as having a role of “economic stewards,” while default episodes and changes in RGDP matter in emerging economies. This paper makes an original contribution to economic literature—no paper has been published on this topic to date. Behind the paper is a powerful data set with applications beyond this paper.

Notes:

1. Switzerland and San Marino both have presidential terms of 1 and 0.5 years respectively. Greece’s head of state, the prime minister, is an appointed position by the president. Political instability explains the turnover in Bosnia and Herzegovina, in addition to supplementing the explanation for Greece.
2. For the entire sample, MOF turnover of 0.7912 if we consider years with at least one change. Comparing the sub-samples, of advanced and emerging economies, during years of at least one presidential turnover the mean MOF turnover is 0.8487 and 0.6710 per annum respectively

References

Dreher, Axel & Sturm, Jan-Egbert & de Haan, Jakob (2008). "Does high inflation cause central bankers to lose their job? Evidence based on a new data set," *European Journal of Political Economy*, Elsevier, vol. 24(4), pages 778-787, December

Table 1: Overview of Sample Countries

Country	Economy/Finance	Defense	Foreign Affairs	Interior	Time Horizon
Albania	1944-2011	1944-2011	1944-2011	1944-2011	67
Argentina	1973-2011	1973-2011	1973-2011	1973-2011	38
Armenia	1991-2011	1991-2011	1991-2011	1991-2003	20
Australia	1976-2011	1901-2011	1901-2011	1901-2011	35
Austria	1918-2011	1918-2011	1918-2011	1918-2011	93
Belarus	1990-2011	1991-2011	1990-2011	1990-2011	21
Belgium	1899-2011	1899-2011	1896-2011	1899-2011	112
Bosnia and Herzegovina	1990-2011	1990-2011	1990-2011	1990-1996	21
Bulgaria	1944-2011	1944-2011	1944-2011	1944-2011	67
Canada	1867-2011	1867-2011	1909-2011	1873-1936 1949-72 (Interior), 78-2011 (Civil Affairs)	144
China	1949-2011	1954-2011	1949-2011		62
Croatia	1990-2011	1990-2011	1990-2011	1990-2011	21
Cyprus	1959-2011	1959-2011	1959-2011	1959-2011	52
Czech Republic	1992-2011	1992-2011	1992-2011	1992-2011	19
Czechoslovakia	1918-1992	1918-1992	1918-1992	1918-1992	74
Denmark	1848-2011	1848-2011	1848-2011	1848-2011	163
Estonia	1990-2011	1992-2011	1990-2011	1990-2011	21
Finland	1917-2011	1918-2011	1918-2011	1917-2011	94
France	1870-2011	1870-2011	1870-2011	1870-2011	141
Germany	1949-2011	1955-2011	1951-2011	1949-2011	62
Greece	1862-2011	1862-2011	1862-2011	1862-2011	149
Hungary	1944-2011	1944-2011	1944-2011	1944-2011	67
Iceland	1917-2011		1939-2011		94
India	1947-2011	1947-2011	1947-2011	1947-2011	64
Ireland	1919-2011	1919-2011	1919-2011		92
Israel	1948-2011	1948-2011	1948-2011	1948-2011	63
Italy	1944-2011	1944-2011	1944-2011	1944-2011	67
Japan	1945-2011	1945 (war) 1954-2011	1945-2011	1945-2011	66
Latvia	1990-2011	1991-2011	1990-2011	1990-2011	21
Lithuania	1990-2011	1991-2011	1990-2011	1990-2011	21
Luxembourg	1848-2011	1937-2011	1848-2011	1848-2011	163
Macedonia	1991-2011	1991-2011	1991-2011	1991-2011	20
Malta	1962-2011		1964-2011	1976-2011	49
Moldova	1990-2011	1992-2011	1990-2011	1990-2011	21
Montenegro	1990-2011	1991-2011	1990-2011	1991-2011	21
Netherlands	1814-2011	1813-2011	1813-2011	1813-2011	197
New Zealand	1893-2011	1893-2011	1919-2011	1909-2011	118
Norway	1905-2011	1905-2011	1905-2011		106

Table 1: Overview of Sample Countries con't

Country	Economy/Finance	Defense	Foreign Affairs	Interior	Time Horizon
Pakistan	1947-2011	1947-2011	1947-2011	1947-2011	64
Poland	1917-2011	1917-2011	1917-2011	1917-2011	94
Portugal	1936-2011	1936-2011	1936-2011	1936-2011	75
Romania	1944-2011	1944-2011	1944-2011	1944-2011	67
Russia	1991-2011	1992-2011	1990-2011	1990-2011	20
San Marino	1973-2011		1945-2011	1945-2011	38
Serbia	1991-2011	1991-2011	1991-2011	1991-2011	20
Slovak Republic	1992-2011	1993-2011	1992-2011	1992-2011	19
Slovenia	1990-2011	1990-2011	1990-2011	1990-2011	21
South Africa	1910-2011	1910-2011	1927-2011	1910-2011	101
Soviet Union	1923-1991	1923-1991	1923-1991	1934-1991	68
Spain	1931-2011	1931-2011	1931-2011	1931-2011	80
Sweden	1936-2011	1945-2011	1945-2011	1947-2011	75
Switzerland	1848-2011	1848-2011	1848-2011	1848-2011	163
Thailand	1932-2011	1932-2011	1932-2011	1932-2011	79
Turkey	1922-2011	1922-2011	1922-2011	1923-2011	89
Ukraine	1990-2011	1991-2011	1990-2011	1990-2011	21
United Kingdom	1689-2011	1940-2011	1782-2011	1782-2011	322
United States	1789-2011	1947-2011	1781-2011	1789-2011	222
Uruguay	1955-2011	1955-2011	1955-2011	1955-2011	56
Yugoslavia	1945-2006	1945-2006	1944-2006	1945-2006	61

Table 2: Variable List

Variable Name	Description
Political Variables in Sample	
country	Country name
code_ifs	3-digit IMF International Financial Statistics (IFS) Code
year	Observation's year
quarter	Observation's quarter
mfinance	Dates of term, name, gender, acting status [when applicable], and, in some cases, political party
mof	Count variable for the number of changes in Minister of Finance during a given year or quarter
mof_a	Count variable for incidences in which an acting finance minister serves during a given year or quarter
Presidents	Dates of term, name, gender, acting status [when applicable], and, in some cases, political party
pres	Count variable for the number of changes in President or Chief of the Executive Branch during a given year or quarter
pres_a	Count variable for incidences in which an acting president or chief of the executive branch serves during a given year or quarter
mdefense	Dates of term, name, gender, acting status [when applicable], and, in some cases, political party
mod	Count variable for the number of changes in Minister of Defense during a given year or quarter
mod_a	Count variable for incidences in which an acting defense minister serves during a given year or quarter
mofaffair	Dates of term, name, gender, acting status [when applicable], and, in some cases, political party
mofar	Count variable for the number of changes in Minister of Foreign Affairs during a given year or quarter
mofar_a	Count variable for incidences in which an acting foreign affairs minister serves during a given year or quarter
minterior	Dates of term, name, gender, acting status [when applicable], and, in some cases, political party
moi	Count variable for the number of changes in Minister of Interior during a given year or quarter
moi_a	Count variable for incidences in which an acting interior minister serves during a given year or quarter
Economic Variables in Sample	
change	binary variable for whether or not there is a change in Minister of Finance during a given year or quarter
change_rgdp	Percent change in real gross domestic product
inf	Percentage change in inflation
bank_crisis	Dummy variable=1 for years in which a country experienced a banking crisis
imf_prog	Dummy variable=1 for years that a country has an IMF program
default	Dummy variable=1 for years in which a country has an episode of sovereign default

Table 3: Entire Sample

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
change	pres	1.105*** [16.981]				0.275*** [3.572]							0.693*** [4.545]
	moi		1.265*** [28.712]			0.579*** [8.452]							0.694*** [5.581]
	motfar			1.256*** [20.642]		0.431*** [6.101]							0.553*** [4.317]
	mod				1.284*** [20.275]	0.511*** [7.405]							0.944*** [6.896]
	change_rgdp						-0.051*** [-3.872]						-0.054*** [-2.971]
	inf							0.000 [0.453]					-0.030 [-1.301]
	bank_crisis								0.085 [0.283]				-0.000 [-0.001]
	imf_prog									0.366* [1.788]			[-0.340] [-0.836]
	default										0.824*** [3.682]		-0.184 [-0.526]
												0.260 [1.148]	-0.234 [-0.563]
												0.369 [1.197]	0.337 [0.563]
													0.691* [1.895]
Observations		4,625	3913	4137	3720	3,195	1771	1,816	2496	1,668	2,046	1397	1197
Observations		4625	3,913	4,137	3,720	3195	1,771	1816	2,496	1668	2046	1,397	1,197
Pseudo R2		0.0655	0.138	0.112	0.124	0.191	0.00845	0.000106	2.86e-05	0.00165	0.00587	0.00918	0.238

Z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1

Table 4: Advanced Economies

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
change	pres	1.396***				0.273**						0.550***	0.562***
		[15.952]				[2.445]						[2.685]	[2.827]
	moi		1.264***			0.683***						1.024***	1.028***
			[50.525]			[7.378]						[6.229]	[6.364]
	mofar			1.303***		0.401***						0.435***	0.400***
				[16.955]		[4.429]						[2.834]	[2.644]
	mod				1.300***	0.429***						0.884***	0.869***
					[16.160]	[4.820]						[5.088]	[5.081]
	change_rgdp						-0.039					-0.038	0.000
							[-1.507]					[-1.414]	[0.010]
	inf							0.049***				0.045***	0.034
								[3.214]				[2.829]	[1.623]
	bank_crisis								-0.525			-0.634	-0.809
									[-0.977]			[-1.174]	[-1.255]
	imf_prog									0.304		0.375	0.345
										[0.718]		[0.816]	[0.584]
Observations		2,926	2,329	2,568	2,234	1,797	1,025	1,058	1,100	1,050	940	755	796
Observations		2926	2,329	2568	2,234	1,797	1025	1,058	1100	1050	940	755	796
Pseudo R2		0.0993	0.170	0.125	0.136	0.223	0.00196	0.00874	0.000809	0.000412	0.0123	0.242	0.238

z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1

Table 5: Emerging Economies

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
change	pres	0.636*** [6.853]				0.324*** [2.928]							0.827*** [3.448]	0.861*** [3.972]	
	moi		1.046*** [11.904]			0.494*** [4.751]							0.204 [1.021]	0.398** [2.427]	
	moifar			1.173*** [11.734]		0.590*** [5.048]							0.747*** [3.233]	0.644*** [3.333]	
	mod				1.258*** [12.231]	0.739*** [6.477]							1.101*** [4.739]	0.948*** [4.871]	
	change_rgdp						-0.056*** [-3.570]						-0.056*** [-2.341]	-0.049 [-1.619]	-0.039* [-1.761]
	inf							0.000 [0.353]					-0.000 [-0.510]	-0.001 [-1.013]	-0.001 [-1.031]
	imf_prog								0.385* [1.645]				0.147 [0.555]	0.277 [0.854]	
	bank_crisis									0.433 [1.111]			0.126 [0.256]	0.092 [0.162]	
	default										0.876*** [3.743]		0.351 [1.163]	0.563 [1.522]	0.698*** [1.990]
	Observations	1,699	1,594	1,571	1,488	1,398	746	758	818	1,396	998	457	442	583	
	Observations	1699	1594	1,571	1,488	1398	746	758	818	1,396	998	457	442	583	
	Pseudo R2	0.0258	0.0936	0.0924	0.108	0.157	0.0176	0.000149	0.00386	0.000822	0.0129	0.0212	0.260	0.251	

z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1

Table 6: Entire Sample, Robustness Check, years without presidential turnover

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
change	moi	1.068*** [14.576]			0.749*** [8.923]							0.716*** [5.021]
	motfar		0.966*** [12.920]		0.527*** [5.986]							0.539*** [3.728]
	mod			0.982*** [13.313]	0.597*** [6.818]							0.894*** [5.721]
change_rgdp						-0.031** [-1.976]						-0.033 [-0.018]
	inf						0.000 [0.092]					-1.495 [-0.677]
bank_crisis								0.438 [1.296]				-0.001 [-0.514]
	imf_prog								0.652*** [2.671]			0.052 [0.125]
default										0.517* [1.908]		0.063 [0.139]
											0.795*** [2.812]	0.543* [1.713]
											0.666* [1.766]	0.836** [1.975]
Observations	2,894	3,035	2,761	2,373	1,378	1,409	1,738	1,291	1,516	1,106	944	
Observations	2894	3035	2,761	2373	1,378	1,409	1738	1291	1,516	1106	944	
Pseudo R2	0.0847	0.0608	0.0716	0.134	0.00350	5.82e-06	0.000931	0.00533	0.00508	0.0109	0.170	

z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1

Table 7: Advanced Economies, years with no presidential

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
change	moi	1.191*** [11.488]			0.960*** [7.938]						1.030*** [5.503]
	mofar		0.908*** [9.650]		0.438*** [3.754]						0.356*** [2.135]
	mod			0.917*** [9.666]	0.541*** [4.531]						0.727*** [3.713]
	change_rgdp					-0.020 [-0.653]					-0.018 [-0.575]
	inf						0.055*** [3.033]				0.048** [2.531]
	bank_crisis							-0.574 [-0.865]			-0.847 [-0.969]
	imf_prog								0.627 [1.239]		0.602 [1.059]
	Observations	1,676	1836	1,590	1255	796	817	888	842	759	602
	Observations	1676	1,836	1590	1,255	796	817	888	842	759	602
	Pseudo R2	0.0981	0.0581	0.0682	0.150	0.000544	0.0115	0.000950	0.00175	0.0136	0.158

z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1

Table 8: Emerging Economies, robustness check, years without presidential turnover

EQUATION	VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
change	moi	0.938***			0.540***							0.225	0.464**
		[9.071]			[4.581]							[0.952]	[2.523]
	motar		1.030***		0.628***							0.934***	0.634***
			[8.607]		[4.689]							[3.305]	[2.847]
	mod			1.079***	0.668***							1.190***	0.920***
				[9.227]	[5.170]							[4.371]	[4.227]
	change_rgdp					-0.034*					-0.034	-0.040	-0.031
						[-1.896]					[-1.113]	[-1.143]	[-1.236]
	inf						-0.000				-0.001	-0.002	-0.002
							[-0.047]				[-0.648]	[-0.788]	[-0.800]
	bank_crisis							0.971**			0.598	0.510	
								[2.242]			[1.018]	[0.787]	
	imf_prog								0.660**		0.383	0.560	
									[2.366]		[1.207]	[1.490]	
	default									0.919***	0.652*	0.733*	0.826**
										[3.134]	[1.711]	[1.668]	[2.034]
Observations		1,218	1,199	1,171	1,118	582	592	850	449	674	347	342	457
Observations		1,218	1,199	1,171	1,118	582	592	850	449	674	347	342	457
Pseudo R2		0.0709	0.0650	0.0769	0.123	0.00758	3.56e-06	0.00569	0.0119	0.0142	0.0310	0.234	0.191

Z-statistics in brackets

*** p<0.01, ** p<0.05, * p<0.1