

The Political Economy of Populism: An Empirical Investigation

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Abstract Various macro-shocks arguably affect the demand for populism. However, there is no evidence beyond a few case studies. I expand electoral data on left-and right-wing populism and link them with per capita income, inflation, unemployment, government expenditures, income inequality, migration, trade and financial openness, and natural resource rents. Negative shocks in some of those consistently predict a surge in populist votes, even in the presence of inherent populist cycles. Shocks also affect election outcomes of left-wing and right-wing populists differently. Finally, European and Latin American voters are still different, yet converging, in their post-crisis preferences for populism.

Keywords Left-wing populism · Right-wing populism · Political economy · Populist cycles

JEL Classification D72 · P16 · P48 · P51 · O57

The Roots of Populism

This paper studies the economic roots of populism in 49 European and Latin American countries since 1980. In political science populism is defined as a "communication style," a discourse, which tries to be as close to the people but at the same time takes an anti-establishment stance and excludes "specific population segments" from an image of an ideal society (Jagers and Walgrave 2007, p. 475). Typically, populists are extreme right or extreme left parties or leaders who fight

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against the elite political and corporate establishment (Dalio et al. 2017; Hawkins 2009), emphasizing the us-against-them rhetoric.

Economists define populism as an "...approach to economics that emphasizes growth and income distribution and deemphasizes the risks of inflation and deficit finance, external constraints and the reaction of economic agents to aggressive non-market policies" (Dornbusch and Edwards 1990, p. 247). Dalio et al. (2017, p. 2) specify a typical set of those policies in the period after the Great Depression: protectionism, nationalism, increased infrastructure building, increased military spending, greater budget deficits, and capital controls. They find that the causes and evolution of populism across those episodes are so similar that they follow an almost identical pattern. This pattern is described as "populist playbook" by Dalio et al. (2017) and "populist paradigm" by Dornbusch and Edwards (1990). Dornbusch and Edwards (1990) infer that populism ultimately leads to welfare deterioration for most voters initially favoring populist leaders or parties.

If history indeed suggests that large groups of people are made worse-off for supporting parties elected to make them richer, then we need a more systematic understanding of the reasons people vote for populists. The literature offers several explanations.

First, the depth of a recession affects the likelihood of populist insurgence in Europe and Latin America (Dornbusch and Edwards 1991; Moffitt 2015). Research on Asia has also shown a significant effect of crises on the likelihood of populism. For example, Tejapira (2002) and Hewison (2005) review the rise of economic nationalism in Thailand as a result of economic stagnation which followed the 1997 East-Asian crisis. As the post-crisis reforms created a vast number of losers, economic freedom reforms were rejected in the 2001 elections, creating a far more nationalistic political agenda fitting well into the "populist paradigm." Therefore, Greskovits (1993) contends that to make populism less likely, all reform packages need to contain an adequate compensation mechanism for the reform losers. If the group of losers is large enough, this would inevitably surface as mounting social discontent which will meet with the supply of populist agendas.

Second, normally any reasonable government would create compensation mechanisms to counter-act the persistent unemployment during or after a deep recession. However, the fiscal stance after the Great Recession is different than in previous recessions. Unlike before, governments now need to curb government expenditures exactly when voters need them most because of the high existing levels of government debt. As a result, austerity has been fueling a sense of disenfranchisement among voters.

Third, persistent inequality, combined with stagnant growth or outright economic depression, stands at the heart of social discontent which motivates the supply of populist agendas, according to Dornbusch and Edwards (1990) and Kaufman and Stallings (1991). To arrive at this conclusion, both teams review an array of populist episodes in Latin America. Dornbusch and Edwards (1991) argue that "populist regimes have historically tried to deal with income inequality problems through the use of overly expansive macroeconomic policies." Macroeconomic mismanagement, however, leads to recessions and banking and fiscal crises, which ensued hyperinflation episodes. In turn, this worsened inequality rather than remedy it,



thereby hurting the very people who elected populists. Kaufman and Stallings (1991) also predict that populism would become a more isolated political phenomenon, a conclusion which definitely calls for a revision a decade after the Great Recession.

In fact, even before the Great Recession it was apparent that populism is coming back to prominence in Latin America as a result of persistent income inequality and stagnant growth in the presence of market-oriented reforms (Roberts 2007). Leon (2014) also argues that the use of macroeconomic redistribution to alleviate income inequality may make populist agendas more likely, and Dornbusch and Edwards (1990) add that large-scale redistribution proposals are a persistent feature of populism in Latin America.

Populism has also emerged in other regions of the world. Some countries in Europe are already embracing populist agendas like they used to after the Great Depression (Dalio et al. 2017). Unlike elsewhere, the European brand of populism has a distinctive trait: xenophobia. For a number of years now, and even before the Great Recession, various authors have studied the nascent comeback of populism to the European political scene. According to Jones (2007, p. 37), populists "are making headway across Europe and from all points on the political spectrum", and a distinctive trait of this comeback is its "xenophobic, anti-immigrant rhetoric".

The reasons for this rhetoric are outlined also by Cahill (2007). He asserts that the immigration waves from "North Africa and Eastern Europe, fear of economic dislocations under European Union enlargement, and the struggles to integrate Muslim immigrants have breathed new life into anti-immigration platforms" (p. 79). Therefore, these platforms may appeal to the large masses of people experiencing discontent from the consequences of austerity, persistent unemployment and stagnant growth in Europe. As a result, the fourth driving factor behind populism is the "migration issue", i.e., how large is the inflow of foreign-born population in a given country.

Fifth, various types of globalization shocks such as increased migration, trade openness, and capital account liberalization have been outlined in the recent study of the populist drivers by Rodrik (2017). Increased trade participation and the alleged export of jobs to cheap labor locations have also played well into the populist rhetoric at times of persistently high unemployment or underemployment. For example, a significant part of the *Make America Great Again* platform appeal to a large mass of working class voters was based on bringing those allegedly lost jobs back to the USA.

Sixth, it has long been established that natural resource rents produce dictator regimes (Sachs and Warner 1999, among others). Some of those regimes are populist. The recent literature has linked the natural resource abundance with populist support (Matsen et al. 2016; Mazzuca 2013).

The above literature suggests eight major factors for the rise of populism across the globe: recessions, inflation, unemployment, austerity, income inequality, immigration, trade and financial openness, and natural resource abundance. The analysis below tests if any of those has played a statistically significant role for populist insurgences. However, first we need a way to measure populism.



Measuring Populism

Recent efforts have generated two data sets that can be used to measure populism and understand its political economy. By using and updating the original index of Hawkins (2009), Rode and Revuelta (2015) design a non-partisan measure of populism as a rhetorical style and study its effect on economic freedom in 33 countries. The advantage of their data set is that it tracks populism in both developed and developing countries across the globe. However, its within-country time variation is small. The index contains 252 observations, of which 55 are after 2007. It is important to note that the Rode and Revuelta (2015) data are generated by studying incumbent political leaders' speeches. Therefore, these data monitor the rhetorical style of the current political incumbents. Yet, most of the populists, especially in Europe, have been thus far a part of the political fringe. Then, we need richer data to understand what drives populism to political prominence. A more recent data set produced by Heinö (2016) overcomes this constraint.

Heinö (2016) monitors actual national election outcomes in 33 European countries since 1980 to track the rise of European populism. He labels a certain party as left-wing or right-wing populist based on the party's ideology. As there is no single authoritative source on party ideology, information was taken from various sources, including existing political party databases and parties' own websites. Then, for each country he sums up the political support for each type of populism, including the period after the recent crisis. The data allow for studying both the overall populism dynamics, as well as the underlying trends in right-wing and left-wing populist support. This makes the index particularly suitable for empirical scrutiny, indicated by the rising number of articles using the underlying data. The surge of the post-crisis populist appeal makes studying the economic drivers behind populism an even more timely exercise.

The Rode and Revuelta (2015) rhetoric populism data vary little over time, and the Heinö (2016) election outcomes data cover only Europe. As a result, we still lack a more comprehensive perspective on the rise of populism. This calls for an additional empirical effort. This effort is directed at both increasing time coverage, especially with more observations after the crisis, and expanding the geographic coverage beyond Europe. This is needed because populism has been slowly moving from the local political fringe to global prominence, especially after 2016 Brexit and US elections. Therefore, to adequately understand the political economy of populism, we need broader data.

By applying the Heinö (2016) approach to Latin America, my research assistant and I expanded the populism index. We looked at actual election outcomes for predefined left-wing and right-wing populist parties in 16 Latin American countries since 1980 and added additional 546 observations to the Heinö (2016) data. As a rule of thumb, far-left or Marxist-Leninist parties were labeled left-wing populists, and far-right parties were labeled right-wing populists. To increase within-country

² See Rohac et al. (2017) for analysis on how right-wing populism in Europe correlates with economic institutions, and Gidron and Hall (2017) on additional social factors driving right-wing populist support.



¹ For a detailed description of data collection methods, see Heinö (2016, pp. 13–15).

time variation for Latin America, we added information on electoral support on both parliamentary and presidential elections. If both happen in the same year in a given country, the average of the two results was taken for each party. The electoral support data were sourced from Nohlen (2005), and for later periods—from electionguide.org.

As a result, our populism data set includes a total of 49 countries and 1586 observations since 1980, which makes it the largest data set of populist support to date. The data set monitors populism on an annual basis, and populist appeal between elections is assumed constant. However, for the empirical estimations that follow, we take only the country-time observations with actual elections. Thus, 436 observations remain in the expanded populism data set.

I link this data set with the above explanatory factors. Data on per capita income, inflation, unemployment, government expenditures in GDP, trade openness, and natural resource rents are taken from the World Development Indicators (World Bank 2017). Data on inequality dynamics, i.e., Gini coefficient and income ratios, are taken from UNU-WIDER (2017)—a richer data set than previously used Milanovic (2014). Whenever there was more than one observation for a given country-year in the original UNU-WIDER (2017) data due to multiple sources, the average of those observations was used.

Data on the stock of migration used in the benchmark model are taken from United Nations (2017a), and data on net migration are taken from United Nations (2017b). The former includes the percentage of foreign-born population³ at a certain point in time, while the latter features the net number of migrants (immigrants minus emigrants) per 1000 population in each country. The United Nations (2017a) data set covers migrants from 1990 to 2017 at 5 year intervals, while the United Nations (2017b) data span from 1950 to 2015 at 5 year intervals. Within each of the 5-year periods, migration was assumed constant. This is done because data at annual frequencies are available only for the OECD countries (OECD 2017), which is not a match good enough for the countries in the extended populism sample. At the same time, the World Bank (2017) bilateral migration data vary at 10-year frequencies. Thus, the 5-year data strike a relatively good balance: at the expense of a smaller time variation than the OECD (2017) data, it gains a larger country coverage. Details on the estimation methods follow.

Model

To estimate how populist support at both ends of the political spectrum relates to macroeconomic shocks, I estimate the following model in differences:

³ Most of the data for Europe and Latin America do not include refugees. Exceptions are: Bosnia and Herzegovina, Croatia, and Hungary in Europe, and Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico and Nicaragua in Latin America. In those countries refugee data are included into the migrant stock estimates.



$$POP_{it} = \alpha POP_{it-1} + X'_{it}\beta + f_i + f_t + u_{it}, \tag{1}$$

where POP_{it} is either the total electoral support (POP), or the support for left-wing (LW) or right-wing (RW) populist parties. For each country i and election year t, X_{it} contains the following: Log(GDP/c.), CPI inflation, unemployment, government expenditures in GDP, Gini coefficient, trade openness, natural resource rents, the stock of migration, and an interaction of those with an after-crisis dummy (AC) to estimate if populism is driven by those factors differently before and after the Great Recession. The AC dummy is equal to 1 if the year is greater than 2008, and equal to 0 otherwise. The model includes also country- and time-fixed effects, and standard errors (SE) are clustered at the country level. Per capita GDP is preferred in this case over the underlying GDP for one important reason: it is voter preferences that drive election outcomes, and the median voter sentiment would be much better proxied by the per capita GDP than the actual GDP.

Difference estimation is needed for at least two reasons. First, a major concern for the benchmark model—especially if run in levels—is the possible non-stationarity of the variables on both sides of the equation. If those variables are non-stationary, the correlations and statistical significances reported may be artificially increased. To check for stationarity, I run a number of panel data unit root tests. The Levin–Lin–Chu, the Im–Pesaran–Shin, and the Fisher-type tests reject non-stationarity in all populism variables, measured in levels. However, the Breitung and the Harris-Tzavalis tests cannot reject it. Further, the Hadri LM test rejects that all populism panels are stationary. All tests cannot reject stationarity of the differenced populism data. Therefore, there is a need to run the model in differences. Second, we are looking into how macro-shocks affect populist dynamics, not just if poorer and more unequal societies vote for populists more often. Then, for both econometric and intuitive reasons, we need the model estimated in differences with country- and time-fixed effects and clustered standard errors (SE).

Clustering at the country level, however, provides consistent SE estimates only in the presence of a large number of clusters. With the relatively small number of countries here, there are two ways to proceed: (1) employ the cluster-adjusted T-Statistics (CATs) procedure suggested by Cameron et al. (2008) and extended for practical purposes by Ibragimov and Müller (2010) and Esarey and Menger (2018); (2) employ a difference GMM approach *a la* Arellano and Bond (1991), which deals with serial correlation within clusters in the presence of populism dynamics.

Results from the CATs procedure are presented in Table 1, while results from the one-step robust difference GMM model are presented in Table 2. As significant multicollinearity could be observed between some of the explanatory variables, the models are also run separately for each of the variables in X_{it} . Results from the separate estimations are presented in Table 3. A detailed discussion of the results follows.



Results

The results in Table 1 are presented in three sets of estimates, each containing three columns. The first set presents the results for the entire sample of countries. The second and the third sets represent separate estimates for Europe and Latin America, respectively. Within each set, column (1) uses the total populist support (TP) as the dependent variable, and columns (2) and (3) display the results for left-wing populism (LW), and right-wing populism (RW) separately. The results allow for comparing what drives populism before and after the Great Recession, and for analyzing any differences in those drivers between Europe and Latin America.

The lagged-dependent variables are indeed significant in most estimations, and they are negatively correlated with the changes in populist acclaim. This means countries that have gone through a rise of populism in past elections are more likely to vote away from the political extremes in the current elections, and vice versa. This result supports evidence of cycles of populism within each country over time, as modeled by Dovis et al. (2016), and documented earlier by Roberts (2007) and Ocampo (2015). Those cycles of populism are also less evident in Latin America than in Europe.

All estimates demonstrate that declines in income per capita are rarely associated with a significant increase in populist support. The exception is left-wing populism in Europe, which has the expected negative correlation with recessions. A rise in inflation and unemployment, a higher trade participation, and a greater immigration flows are also not the core drivers of populist insurgencies.

Austerity plays a different role for right-wing and left-wing populism. Countries with heavier fiscal contractions in Europe are more likely to experience a surge in left-wing populism. Overall, fiscal contractions also significantly reduce the demand for right-wing populist agendas.

However, right-wing populism seems unaffected by income inequality. A rise in the Gini coefficient plays a significant role only for voters in Latin America, and only for left-wing populists. Apparently, Latin American voters are more sensitive to spreading inequalities than Europeans, perhaps due to more tolerable existing levels of inequality in Europe and broader coverage of the European social safety nets. In addition, inequality does not play a significant role in how differently voters perceive populism before and after the Great Recession. That is not the case for natural resource endowments.

Countries accumulating natural resources also experience a burgeoning populist support. This is evident from the parameter estimates of *Rents* and is hardly surprising. Typically, resource-rich countries use the proceeds to buy political support through either infrastructure development or direct social transfers, consistent with the "populist paradigm." It is notable that no significant differences emerge between Europe and Latin America in terms of how voters perceive higher endowments.

The parameter estimates on the interaction terms with an after-crisis dummy (AC) add further insight into the political economy of populism after 2008. Overall, the after-crisis sensitivity to populists due to macroeconomic shocks seems to have



Table 1 Populism dynamics and macroeconomic shocks, 1980-2015: CATs procedure

	Overall			Europe			Latin America	ca ca	
	(1) TTP	(2) LW	(3) RW	(4) TP	(5) LW	(6) RW	(7) TT	(8) LW	(9) RW
TAP_{t-1}	40***			38***	27*	. 44**	48	41	40*
	(60.)	(.11)	(.08)	(.12)	(.14)	(.11)	(.27)	(.38)	(.20)
L(GDP/c.)	- 5.51			-12.34	-11.50*	86. –	-3.81	-20.52	17.45
	(13.61)			(13.07)	(6.61)	(11.08)	(52.92)	(37.60)	(27.22)
Infl.	00. –			00. –	01	00.	01	01	00. –
	(.00)			(.01)	(.00)	(.01)	(.01)	(.01)	(.00)
Unempl.	.13			.03	.03	.05	1.98	1.63	.36
	(.36)			(.33)	(.17)	(.28)	(1.59)	(1.13)	(.82)
G/GDP	44.			13	**88. –	99.	.20	.01	.34
	(.51)			(.65)	(.33)	(.55)	(1.83)	(1.28)	(.93)
Gini	.11			.19	04	.24	2.73*	2.15*	.63
	(.30)			(.26)	(.13)	(.22)	(1.48)	(1.08)	(.75)
Trade	.01			02	01	02	.45	.20	.24
	(.10)			(60.)	(.04)	(.07)	(.68)	(.49)	(.35)
Rents	1.23***			.14	.54	39	1.64	.82	.81
	(.41)			(1.52)	(.76)	(1.29)	(1.10)	(.81)	(.57)
M stock	.28			.02	00.	.01	3.07	.81	1.73
	(96)			(.80)	(.39)	(.68)	(6.79)	(4.85)	(3.41)
L(GDP/c.)*AC	4.55*			2.87	2.62*	.29	45.43**	30.37**	14.46
	(2.66)			(2.88)	(1.40)	(2.44)	(16.59)	(12.34)	(8.46)
Infl.*AC	73**			.34	50*	.14	- 2.68*	-1.91*	70
	(.36)	(.23)		(.59)	(.29)	(.50)	(1.33)	(.94)	(89.)



Table 1 continued

	Overall			Europe			Latin America	a	
	(1) TP		(3) RW	(4) TP	(5) LW	(6) RW	(7) TP	(8) LW	(9) RW
Unempl.*AC	.07	21	.29	.20	.10	.07	- 2.11	- 2.58	60.
	(.52)		(.35)	(.43)	(.21)	(.36)	(5.82)	(4.02)	(3.05)
(G/GDP)*AC	-1.95**		70	35	81*	.49	-1.73	- 1.91	-9.14*
	(.97)		(.64)	(.90)	(.44)	(.75)	(9.84)	(7.52)	(5.05)
Gini*AC	.14		17	53	10	46	- 2.69	-3.47	1.16
	(.30)		(.20)	(.44)	(.22)	(.37)	(5.28)	(4.06)	(2.61)
Trade*AC	04		02	05	04*	00. –	1.24	1.4	40
	(.05)		(.04)	(.04)	(.02)	(.04)	(1.46)	(1.10)	(89.)
Rents*AC	12		60.	-1.05	.13	- 1.11	- 8.90**	-6.07*	-2.56
	(.90)		(.60)	(1.36)	(.67)	(1.16)	(3.99)	(2.99)	(1.98)
M-stock*AC	55		12	- 00	10	.01	-15.16*	-14.22*	15
	(.44)		(.30)	(.37)	(.18)	(.31)	(8.45)	(6.76)	(4.06)
N	191		191	139	137	139	52	52	52
$Adj. R^2$.026		.173	.053	.281	760.	980. –	163	.205

The estimated equation is $\Delta POP_{ii} = \alpha \Delta POP_{ii-1} + \Delta X_{ii}' \beta + f_i + f_i + \Delta u_i$, where POP_{ii} is either the total electoral support (TP) or the support for left-wing (LW) or rightwing (RW) populist parties. Xit is a matrix containing: the lagged differences of either TAP, TAP-LW or TAP-RW, and the differences of Log(GDP/c.), CPI inflation, unemployment, government expenditures in GDP, Gini coefficient, trade openness, natural resource rents, the stock of migration, and their interactions with an after-crisis dummy (AC). Country- and time-fixed effects are included. Clustered standard errors are presented in parentheses. Data source: Heinö (2016), WDI, UNPD, WIID, and own data collection for Latin America. Symbols: *p < .10, **p < .05, ***p < .01



Table 2 Populism dynamics and macroeconomic shocks, 1980-2015: one-step robust difference GMM

				Europe			Latin America	а	
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
TAP_{t-1}	— .41***	28	.40***		32**	.44**	50	30	36**
	(60.)	(.17)	(.10)	(.15)	(.14)	(.16)	(.29)	(.51)	(.13)
L(GDP/c.)	- 6.44	- 7.91	1.83		-11.16**	-1.26	-3.08	-29.24	3.33
	(12.08)	(5.86)	(80.08)		(4.46)	(11.92)	(58.12)	(48.13)	(42.20)
Infl.	***00' -	00. –	***00. –		01**	00.	02	01	01**
	(.00)	(.00)	(00.)		(.00)	(.01)	(.01)	(.01)	(00.)
Unempl.	.12	.33	18		.01	.05	2.11	1.66	.42
	(.23)	(.23)	(.27)		(60.)	(.40)	(1.75)	(1.05)	(.91)
G/GDP	.46	08	**65.		84**	99:	.34	98.	02
	(.39)	(.30)	(.27)		(.33)	(.51)	(4.00)	(2.40)	(1.92)
Gini	.12	.07	.11		02	.23	2.70	2.22	.58
	(.33)	(.27)	(.17)		(.13)	(.23)	(1.93)	(1.82)	(16.)
Trade	.01	.05	04		01	02	.56	.41	.14
	(60.)	(.04)	(.07)		(.03)	(.08)	(.84)	(.56)	(.37)
Rents	1.20*	.14	**26.		.56	.42	1.50	.47	.92
	(09.)	(.40)	(.42)		(.70)	(1.17)	(.85)	(.72)	(09.)
M stock	.27	.25	.05		00. –	.01	3.39	07	1.77
	(.72)	(.35)	(.49)		(.26)	(.70)	(1.42)	(86.98)	(3.30)
L(GDP/c.)*AC	4.97*	3.25*	1.94		2.71	.18	45.01***	29.33**	14.73
	(2.80)	(1.73)	(2.27)		(1.81)	(1.80)	(13.32)	(9.39)	(6.93)
Infl.*AC	75**	***96. –	.19			.07	-2.84*	-2.19*	52
	(.29)	(.21)	(.18)		(.42)	(.40)	(1.31)	(.97)	(.83)



Table 2 continued

Unempl.*AC		•				Tanin Timorica	
.0819 (.53) (.27)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
(.53) (.27) (.29* - 1.46*** (1.18) (.66) .11 .24 (.26) (.17) 0402 (.05) (.03) 2026 (1.37) (.85) 5545 (.44) (.28)	.28	.20	60°	80.	-1.03	- 1.29	- 1.29
(1.18) (.66) (1.18) (.66) (.11) .24 (.26) (.17) (.05) (.03) (.05) (.03) (.03) (.05) (.03) (.05) (.03) (.05) (.03) (.26) (.137) (.85) (.28) (.44) (.28)	(.45)	(.61)	(.24)	(.47)	(7.21)	(3.19)	(3.08)
(1.18) (.66) .11 .24 (.26) (.17)0402 (.05) (.03)2026 (1.37) (.85)5545 (.44) (.28)		41	86. –	95.	-12.89	- 4.04	-1.16
.11 .24 (.26) (.17) 0402 (.05) (.03) 2026 (1.37) (.85) 5545 (.44) (.28)		(.84)	(.58)	(.47)	(1.45)	(6.24)	(8.41)
(.26) (.17)0402 (.05) (.03)2026 (1.37) (.85)5545 (.44) (.28)	18	49	02	.49	-2.32	-3.04	2.03
0402 (.05) (.03) 2026 (1.37) (.85) 5545 (.44) (.28)	(.17)	(.50)	(.22)	(.41)	(5.39)	(3.20)	(3.28)
(.05) (.03)2026 (1.37) (.85)5545 (.44) (.28)	02	05	05	00. –	1.35	1.42	69. –
2026 (1.37) (.85) 5545 (.44) (.28)	(.04)	(.05)	(.03)	(.03)	(1.41)	(.84)	(09.)
(1.37) (.85) 5545 (.44) (.28)	60:	-1.09	.03	-1.07	- 9.22**	- 5.68***	-3.15
5545 (.44) (.28)	(.83)	(1.46)	(.63)	(1.37)	(3.19)	(1.50)	(2.64)
(.28)	12	60. –	60. –	.01	-14.03**	-12.01***	30
140	(.27)	(.35)	(.16)	(.28)	(4.57)	(1.95)	(3.71)
011	142	104	102	104	38	38	38
Hansen-P 1.00 1.00 1.	1.00	1.00	1.00	1.00	1.00	1.00	1.00

and the differences of Log(GDP/c.), CPI inflation, unemployment, government expenditures in GDP, Gini coefficient, trade openness, natural resource rents, the stock of migration, and their interactions with an after-crisis dummy (AC). Time-fixed effects are included. Robust standard errors are presented in parentheses. Data source: Heinö The estimated equation by a one-step difference GMM with a full set of instruments is $\Delta POP_{ii} = \alpha \Delta POP_{ii-1} + \Delta X_{ii}'\beta + f_i + \Delta u_{ii}$, where POP_{ii} is either the total electoral support (TP) or the support for left-wing (LW) or right-wing (RW) populist parties. X_{ii} is a matrix containing: the lagged differences of either TAP, TAP-LW or TAP-RW, (2016), WDI, UNPD, WIID, and own data collection for Latin America. Symbols: *p < .10, **p < .05, ***p < .01



Table 3 Populism dynamics and macroeconomic shocks, 1980-2015: separate estimations

	Overall			Europe			Latin America	а	
	(1) TP	(2) LW	(3) RW	(4) TP	(5) LW	(6) RW	(7) TP	(8) LW	(9) RW
L(GDP/c.)	7.97	- 1.86	- 6.27	- 12.25*	- 5.27	- 6.02	11.01	33.26	- 25.09
L(GDP/c.)*AC	(6.76) .09	(7.57)	(4.32) 23	(7.16) 04	(5.29) .21	(5.62)22	(25.60)	(19.33) 1.17	(19.31)
,	(.36)	(.28)	(.23)	(.47)	(.29)	(.30)	(1.51)	(1.59)	(.42)
Infl.	00. –	00.	00. –	00.	00. –	00.	00.	00.	00. –
	(.00)	(.00)	(.00)	(.00)	(.00)	(.00)	(.00)	(.00)	(00)
Infl.*AC	40***	37***	02	.41	26	18	.35***	36***	.03
	(.04)	(.04)	(.03)	(.82)	(.32)	(.65)	(.05)	(.05)	(.04)
Unempl.	.16	.24	- 00	.26	.10	.14	.21	.72*	<i></i> 57
	(.24)	(.15)	(.22)	(.23)	(.10)	(.20)	(.52)	(.37)	(.39)
Unempl.*AC	90.	.13	90. –	90. –	.20	22	2.24**	1.28	.92
	(.28)	(.19)	(.22)	(.29)	(.20)	(.23)	(.83)	(.91)	(.67)
G/GDP	.17	04	.22**	*99	18	.83**	.29	60.	.21
	(.12)	(.11)	(.11)	(.38)	(.16)	(.36)	(.31)	(.16)	(.26)
(G/GDP)*AC	.04	60.	90. –	01	.11	11	.48	.53	04
	(.20)	(.16)	(.11)	(.23)	(.14)	(.15)	(86.)	(.93)	(.26)
Gini	.18	90.	.17	.30	.02	.28	.07	.17	02
	(.27)	(.27)	(.13)	(.25)	(60.)	(.27)	(1.45)	(1.09)	(.62)
Gini*AC	.23	.27**	03	.02	.13	10	1.41***	.91***	.53**
	(.17)	(.11)	(.10)	(.19)	(.12)	(.12)	(.29)	(.24)	(.23)
Trade	*90`	***60.	02	03	01	02	90.	.13***	05
	(.03)	(.03)	(.02)	(.04)	(.03)	(.03)	(.05)	(.02)	(.06)



Table 3 continued

	Overall			Europe			Latin America	ca	
	(1) TP	(2) LW	(3) RW	(4) TP	(5) LW	(6) RW	(7) TP	(8) LW	(9) RW
Trade*AC	01	00.	01	03	01	01	80. –	80. –	01
	(.02)	(.01)	(.01)	(.02)	(.01)	(.01)	(.08)	(.10)	(.04)
Rents	**69*	.43**	.26	.85	.59	.25	*429.	.53**	.17
	(.30)	(.18)	(.22)	(1.22)	(.42)	(1.02)	(.33)	(.22)	(.22)
Rents*AC	4.	19	25	09. –	.49	-1.04	62*	.40	25
	(.31)	(.35)	(.16)	(.76)	(44.)	(.92)	(.33)	(.46)	(.23)
M stock	22	21	.01	36	28	05	- 1.48	25	-1.50
	(.46)	(.27)	(.27)	(.42)	(.25)	(.26)	(3.24)	(1.96)	(2.24)
M-stock*AC	03	00. –	02	02	.07	08	52	30	05
	(.16)	(.12)	(.10)	(.17)	(.09)	(.13)	(.94)	(.72)	(.65)

The estimated equation is $\Delta POP_{ii} = \alpha\Delta POP_{ii-1} + \Delta X_{ii}'\beta + f_i + f_h + \Delta u_i$, where POP_{ii} is the change in either the total electoral support (TP) or the support for left-wing (LW) or right-wing (RW) populist parties between elections in country i. X_{ii} is a matrix containing: the lagged levels of either TAP, TAP-LW or TAP-RW, and either the changes in Log(GDP/c.), or CPI inflation, or unemployment, or government expenditures in GDP, or Gini coefficient, or trade openness, or natural resource rents, or the stock of migration, and their respective interactions with an after-crisis dummy (AC). Country- and time-fixed effects are included. Clustered standard errors are presented in parentheses. POP_{ii-1} is included in each model, but its estimates are not reported. Data source: Heinö (2016), WDI, UNPD, WIID, and own data collection for Latin America. Symbols: *p < .10, **p < .05, ***p < .01



intensified. On the one hand, deflation and austerity now play an even more pronounced role than before the Great Recession, especially for left-wing populists. Countries experiencing deeper deflationary episodes after 2008 also help lift the left-wing populists. Similar conclusions are drawn for spending cuts, except for Latin America where austerity makes people turn to right-wing populists instead. On the other hand, natural resource rents do not exert a different impact after the Great Recession. They become even less relevant for populist support in Latin America, indicated by the significant negative estimates on the after-crisis interaction term for the region. We also notice the increased similarity in post-crisis voter reaction to shocks across Europe and Latin America, which implies a certain convergence in political preferences.

There are two surprising sets of post-crisis estimates in Table 1. First, income per capita recessions actually harm populists, and the effect is more significant for Latin America than for Europe. This may be anticipated in some countries long governed by populists, e.g., Venezuela, which may experience populism fatigue. However, this effect is harder to explain in Europe, where left-wing populists lose electoral support as a result of recessions, and Greece is a notable example to the contrary. Second, one would expect higher right-wing popularity in countries receiving more immigrants. The electoral outcomes from the 2016 British referendum, and the 2017 Dutch, French, and German elections indicate that those countries are both receiving a lot of immigrants and increasingly voting for far-right populists. However, contrary to the expectations, the estimates demonstrate that countries receiving more immigrants in Europe do not fall easily for populist agendas—the overall effect is insignificant, and so are the interactions with AC. Only in Latin America countries receiving more migrants are actually *less* devoted to populists.

Table 2 presents similar estimates of the correlations between macroeconomic and social shocks and populism dynamics. Just like with the estimates produced by the CATs method, the Arellano-Bond (AB) estimates reveal a significant inherent populist cycles in both Europe and Latin America. Still, the populist cycles in Latin America—especially of left-wing populism—are less predictable.

Further, as before, recessions and austerity boost left-wing populism in Europe, unlike the one in Latin America. Income per capita dynamics, inflationary pressures, fiscal cuts, natural resource discoveries, and migration shocks play a very similar role, evident from the post-crisis estimates in both tables.

There are three notable differences between the CATs and the AB estimates. First, deflation plays a statistically significant role in pushing populism forward in the AB estimates. However, the effect is still politically negligible. Second, according to the AB estimates, the post-crisis populism landscape in Europe seems unaffected by macroeconomic shocks, while the CATs estimates demonstrated a significantly different impact of recessions, inflation, austerity, and trade participation. Third, the AB estimates for Latin America also demonstrate a lower impact of income inequality on populism than the CATs estimates. We also note that when country fixed effects are explicitly included in the difference GMM model, STATA fails to report SEs for Latin America because of insufficient observations. Therefore, the AB model run on differenced data is done without the country fixed effects.



Due to significant multicollinearities observed between the explanatory variables, we need to check if the data offer further insight into the political economy of populism when each of the variables in X_{it} is included separately. Table 3 presents the estimates from the separate estimations. Just as before, the models also include lagged-dependent variables and are estimated in differences. For parsimony, the table reports only the parameter estimates of the variables in X_{it} .

The estimates are not very different from what we observed in the previous two tables. Recessions play a role for spurring populism in Europe only. Countries going through deflationary episodes are more likely to vote for populist. Populist votes in Latin America appear more sensitive to rising unemployment and income inequality, especially after the crisis. The lack of this effect in Europe is perhaps due to the well established and more generous social safety nets there. Just as before, increasing rents play a significant role for propelling populism while immigration does not prompt more populist votes, even in the models estimated separately.

Trade participation is the only factor that comes up significant, while the original estimates did not capture any impact. The effect is particularly notable for Latin America, where countries increasing trade openness turn to populism more often, consistent with the intuition set forth in Rodrik (2017). A number of robustness checks follow (Table 4).

Robustness Checks

A series of robustness checks were performed to ensure the results are not driven by the choice of models, variables or variables definitions. The core messages after those checks remained the same. In some cases, messages came out stronger suggesting the benchmark estimates were rather conservative.

Inequality

The Gini coefficient is only one of the measures that proxy how unequal a given society is. The WIID3.4 also contains information on the income ratio between the first and the fifth quintile, and the first and the tenth decile. I use those ratios as alternatives to the Gini coefficient in the benchmark estimations. The results are roughly the same, with minor qualifications.

Specifically, when the decile income ratio substitutes for Gini, changes in income inequality continue to play a statistically negligible role for boosting populism. Inequality becomes marginally more important for left-wing populism after the crisis, and in the entire sample of countries. At the same time, plugging the decile ratio for Gini changes other estimates. For example, both the rents and austerity come out stronger and more significant than in the benchmark estimates, especially for Latin America. Similar conclusions were drawn when the quintile ratio was used, with somewhat subdued impact of inequality on populism than the decile ratio.



Table 4 List of populist parties and coalitions

Country	Party/coalition name	LW/RW-Populist
Argentina	Front for Loyalty; Workers Left Front; Workers Party (PT)	LW
	Movement for Dignity and Independence	RW
Austria	Communist Party of Austria; Socialist Left Party	LW
	Alliance Future Austria; Freedom Party of Austria	RW
Belgium	Communist Party of Belgium; Party of the Labor of Belgium; Revolutionary Communist League	LW
	Flemish Importance; Front National	RW
Bolivia	Democratic and Popular Union; Movement for Socialism; Revolutionary Liberation Movement Tupaq Katari; Revolutionary Nationalist Movement; Revolutionary Party of the Nationalist Left; United Left	LW
	Bolivian Socialist Falange; Conscience of Fatherland— Patriotic Movement; Conscience of Fatherland	RW
Brazil	Communist Party of Brazil; Democratic Labour Party; Socialism and Freedom Party (PSOL); Workers Party (PT)	LW
	Party of Reconstruction of the National Order; Party of the Republic	RW
Bulgaria	Bulgarian Communist Party; Bulgarian Communist Party— Marxists	LW
	Bulgaria Without Censorship (BBC); Ataka; Internal Macedonian Revolutionary Organization; Bulgarian National Radical Party; National Rescue Front; Order, Law and Justice	RW
Chile	Communist Party; New Constitution for Chile; Together we can More	LW
Colombia	19th of April Movement	LW
	Colombian Force; National Integration Party; Party of National Integration	RW
Costa Rica	People's Vanguard Party	LW
	Costa Rica Renewal; Costa Rican Renovation Party; New Fatherland Party	RW
Croatia	A Human Wall	LW
	Autochthonous Croatian Party of Right; Croatian Democratic Party of Salvonia and Baranja; Croatian Party of Rights Dr. Ante Starcevic	RW
Cyprus	Progressive Party of Working People	LW
	National People's Front	RW
Czech Republic	Communist Party of Bohemia and Moravia	LW
	Delightful democracy first; Republican Party of Czechoslovakia; Worker's Party of Social Justice	RW
Denmark	Socialist Labor Party; Left Socialists; Unity; Denmark's Communist Party; Communist Labor Party; Common Course	LW
	Danish People's Party; Progress Party	RW



Table 4 continued

Country	Party/coalition name	LW/RW-Populist
Ecuador	Concentration of People's Forces; Ecuadorian Roldosist Party; Patriotic Society Party	LW
	Force Ecuador; Institutional Renewal Party; National Action Institutional Renewal Party; New Party of National Action	RW
Estonia	Estonian Conservative People's Party; Estonian Independence Party	RW
Finland	Communist Workers' Party; Democratic Federation of Finnish People; Democratic option; Finnish Communist Party; Finnish Labor Party	LW
	Blue-white front; Change-2011; Finnish people's blue and white; True Finns	RW
France	French Communist Party; Labor Struggle; Left Front; Revolutionary Communist League	LW
	Front National; Movement for France; Republican National Movement	RW
Germany	German Communist Party; The Left	LW
	Alternative for Germany; National Democratic Party of Germany; The Republicans	RW
Greece	Anticapitalist Left Co-operation to Overthrow; Coalition of the Radical Left; Coalition of the Radical Left/Syriza; Communist Party of Greece; Labor Revolutionary Party; Laiki Enotita; Marxist-Leninist Communist Party of Greece; Organization for the Reconstruction of the Communist Party of Greece; Socialist Workers Party of Greece; Workers Revolutionary Party	LW
	First line; Golden Avi; Independent Greeks; KOIONIA; National Political Union; Popular Orthodox Alarm	RW
Guatemala	Revolutionary Unit National Guatemala; Guatemalan National Revolutionary Unity	LW
	Guatemalan Republican Front; Renewed Democratic Liberty Party	RW
Guyana	People's Progressive Party	LW
Hungary	Hungarian Workers' Party	LW
	Fidesz—Hungarian Polgari Association; Hungarian Justice and Life Party; Jobbik for Movement for Hubgary	RW
Iceland	People camps; Social Democratic Alliance; People Before Profits Alliance; Socialist Party; Workers Party of Iceland	LW
	Icelandic National Population	RW
Italy	Communist Refoundation Party; Communist Worker's Party; Critical Left; Democracy Proletaria; Five Stars movement; Italian Communist Party; Party of Italian Communists; The Left—The Rainbow;	LW
	Brothers of Italy—National Alliance; Casa Pount; Flame Tricolor; Italian Social Movement; New Force; North League; The Freedon; The Right	RW



Table 4 continued

Country	Party/coalition name	LW/RW-Populist
Latvia	Latvian Socialist Party	LW
	All Lavia; For Fatherland and Freedom; National Union for All Latvia	RW
Lithuania	Front party; Lithuanian Socialist Party; Socialist People's Front	LW
	Lithuanian Center Party; Order and Justice; Union of Lithuanian Nationalists; Union of Lithuanian Nationalists; Young Lithuania	RW
Luxembourg	Communist Party of Luxembourg; Independent Socialist Party; The Steering Wheel	LW
	National Movement	RW
Malta	Maltese Communist Party	LW
	National Action	RW
Mexico	Workers' Revolutionary Party; Popular Socialist Party; Unified Socialist Party	LW
	Mexican Democratic Party	RW
Montenegro	Communist League of Montenegro	LW
The Netherlands	Alliance of Communists in the Netherlands; Communist Party Netherlands; New Communist Party Netherlands; Socialist Party	LW
	Center Democrats; Centrumpartij; Centrumpartij'86; Freedom Party; List Pim Fortuyn; One NL; Party for the Netherlands; Reformed Political Party	RW
Nicaragua	Workers' Revolutionary Party; Communist Party of Nicaragua; Marxist-Leninist Popular Action Movement	LW
Norway	Norway's Communist Party; Red Choice Alliance; Red Party	LW
	Norwegian People's Party; Patriotic Party; Progress; Stop the Migration	RW
Paraguay	Revolutionary Febrinist Party	LW
Peru	Peruvian Nationalist Party; Peruvian Communist Party; Peru Wins	LW
	Popular Force; Peru 2000; Change 90-New Majority	RW
Poland	Polish Labor Party	LW
	Alliance of Democrats; Christian National Union; Confederation of Independent Poland; Kukiz 15; Law and Justice; League of Polish Families; Polish National Party	RW
Portugal	Communist Party of Portuguese Workers/Reorganizing Movement of the Party of the Proletariat; Labor Party of Socialist Unity; Left Block; Popular Democratic Union; Portuguese Communist Party; Revolutionary Socialist Party; United Democratic Coalition; Alternative Socialist Movement, tidigare Front of the Revolutionary Left	LW
	Renovating National Party	RW



Table 4 continued

Country	Party/coalition name	LW/RW-Populist
Romania	People's Party—Dan Diaconescu; Socialist Alliance Party; The Socialist Labor Party	LW
	Greater Romania Party; New Generation Party—Christian Democrats; Romanian National Unity Party	RW
Serbia	Communist Party; Jugoslavenska Levica	LW
	Democratic Party of Serbia; Movement of the Dveri; Patriotic Front; Serbian Radical Party; Serbian Unity Party	RW
Slovakia	Association of Workers of Slovakia; Communist Party of Slovakia; People's Party—Movement for Democratic Slovakia	LW
	Slovak National Party; Right Slovak National Party; Ludova Strana Our Slovakia	RW
Slovenia	The League of Communists of Slovenia	LW
	The Slovene national party; Lipa	RW
Spain	Communist Party of Spain (Marxist-Leninist); Communist Party of the People's of Spain; Communist Party Spanish Worker; Communist Unification of Spain; Harri Batasuna; Left Bank of the Basque Country; Party of the Communists of Catalonia; Socialist Workers Party; United Left; United Left—Unidad Popular; United We Can; We Can; Worker's Party of Spain-Communist Unity	LW
	New Force	RW
Suriname	Basic Party for Renewal and Democracy	LW
Sweden	Labor Party Communists; Left Party Communist; Swedish Communist Party	LW
	National Democrats; New Democrats; Sweden Democrats	RW
Switzerland	Alternative list; Party of work of Switzerland; Progressive organizations of Switzerland; Solidarity	LW
	Citizen Movement Genevois; Freedom Party of Switzerland; League of Ticinese; Swiss Democrats; Swiss People's Party	RW
United Kingdom	Scottish Militant Labour	LW
	The English Democrats; National Front; United Kingdom Independence Party; British National Party	RW
Uruguay	Popular Assembly	LW
Venezuela	Simon Bolivar Great Patriotic Pole; United Socialist Party of Venezuela; Fifth Republic Movement; Communist Party of Venezuela; Revolutionary Left Movement	LW

Source: Heinö (2016), own data collection. For details, see the data section



Austerity

In the benchmark models, the G/GDP ratio measures if a certain government has adopted austerity measures. A decline in the ratio is what defines austerity. However, G/GDP may decline because GDP has risen even without an explicit reduction in government expenditures. Then, we possibly need a change in the way we define austerity. If we use a decline in the log-government expenditures in constant dollars instead of the decline in G/GDP, then austerity plays a stronger role for spurring left-wing populism in Europe but the post-crisis estimates become insignificant. This is valid for both Europe and Latin America.

Migration

The benchmark model uses the stock of migration. However, net migration can also guide voters to the political extreme rather than the stock of immigrants. Then, migration stock and its interaction with AC are replaced by the net flows of immigrants. Overall, similarly to the benchmark models, net migration is still uncorrelated with electoral outcomes for populists. Countries seeing *less* migrants are *more* prone to populism of both kinds. This time the results are significant also for Latin America. In addition, substituting net migration for the stock of migration renders austerity as a stronger factor driving left-wing populism than in the benchmark model.

Trade Openness Versus Capital Account Openness

Rodrik (2017) argues that not only increased trade participation but also a deeper financial integration makes voters more susceptible to populists. Then, a natural robustness check would be to replace trade openness with capital account openness. One of the more comprehensive sources of data on capital account openness is the Chinn-Ito Index detailed in Chinn and Ito (2006) and especially Chinn and Ito (2008). The index was updated in 2017 and covers the period between 1970 and 2015 for most countries in our sample.

The benchmark estimates suggested that trade openness was not the main driver of demand for populism, and so is capital account liberalization. However, there is a marked difference between the post-crisis reaction of voters to trade and financial openness. Whereas trade openness after the crisis was associated with no significant increase in the populism hype, capital account liberalization has lead to a significant boost in populist appeal on both ends of the political spectrum. The capital account effect is stronger for Europe than for Latin America.

Election Cycle Durations

The differences in the benchmark model were constructed with respect to the previous election year. However, there is another approach to check if populism dynamics has been affected by macro-shocks. Rather than observing elections years only, we could assume constant populism appeal within each electoral cycle until



the following elections. Effectively, this means artificially blowing up the number of observations which, at first glance, is hardly a credible strategy. In addition, when those observations are differenced, the model will regress a number of zeros on a shock which may underestimate the true effects of those shocks. However, imputing populist appeal between elections has one advantage: we can check if the lag-length has any effect on the estimates, even though we know those would be biased. Three different lag-lengths have been used: 3, 4, and 5 years, respectively, to accommodate the duration of a typical election cycle.

Varying election cycle durations changes little about the core messages of the paper. Recessions, deflation, and austerity play in the hands of European left-wing populism. In addition, macro-shocks play a more pronounced role in the post-crisis political dynamics. Recessions and deflation boost left-wing populism even further, with the effects becoming significant for Latin American left-wing populism as well. The results are not highly sensitive to the duration of the lag.

Lagged Explanatory Variables

The benchmark X_{it} excludes lags of the differenced explanatory variables. However, economic shocks may have a longer-term implications than just their contemporaneous effect on populism. Then, we need to take into account those implications by running the benchmark model with lagged explanatory variables as well. To do that, I first determined the optimal number of lags for each of the explanatory variables by a *pvar*-procedure. Overwhelmingly, the number of optimal lags turned out to be one.

The lack of sufficient observations for Latin America, however, necessitates two changes in the model for the region: Time-fixed effects were removed, and the lags of X-es were not differenced, both to preserve degrees of freedom. As the model for Latin America changed which makes the estimates harder to compare across regions, I prefer to exclude the lagged independent variables from the benchmark model. The rest of the model remained unchanged.

Including lags of the differenced explanatory variables delivered a stronger message than the benchmark model. They preserved the contemporaneous effect of recessions and austerity on left-wing populism in Europe. In addition, a rise in unemployment gave a marginally significant boost to left-wing populism. Increase in migration has also barely contributed to an increase in the overall populism score, unlike in the benchmark estimations.

The lags of recessions, unemployment and fiscal contractions, which were missing from the benchmark model, showed some teeth in boosting populism. So did the lags of post-crisis immigration flows, which confirms the increased role of immigration in shaping the post-crisis voter preferences. Including lags of explanatory variables has also dramatically increased the explanatory power of the models. Indeed, as expected, populism today could be driven by shocks from the not so distant past, as Dalio et al. (2017) have conjectured.



Redefining Populism

All of the estimates so far were produced by using the expanded Heinö (2016) data, which understands the rise of populism as a boost in electoral demand for predefined populists, be they incumbent or potential entrants. This means the estimates ignored populism as a rhetorical style of incumbent politicians, as measured in the Rode and Revuelta (2015) data.

In the Rode and Revuelta (2015) data, the dependent variable runs from 0 to 1.9, while in the expanded Heinö (2016) data it ranges (theoretically) from 0 to 100. Then, for the sake of making comparisons easier, I normalize the former so that it varies from 0 to 100. However, the data coverage, the within-country time variation in the populism indices and the conceptual differences in how populism is defined make comparisons problematic. The time variation is particularly hard to work with, as differencing leaves the model with insufficient number of observations. Therefore, we need to resort to running the models in levels, and without lags of dependent and independent variables, which calls for caution when comparing the results with the benchmark estimates.

Still, a few of the core messages were kept intact. Just like in the benchmark estimates, recessions per se did not play a crucial role in strengthening populist rhetoric. However, countries going through deflationary episodes did experience a boost in populism, as before. In addition, countries experiencing higher income inequality are also more prone to populist rhetoric. Finally, the crisis had a statistically insignificant correlation with the rise of populist rhetoric, unlike most of the benchmark estimates.

Despite the existing differences across models, data coverage and definitions of variables, a number of conclusions are in order. Those conclusions shed light on how macro-shocks affect electability of populists.

Conclusion

Populist resurgences can be quantified, and their dynamics can be attributed to the underlying social and economic shocks, as expected in the literature. However, to this date no empirical estimates have been produced to better understand what drives populism across a number of countries over numerous electoral cycles. This paper uses a sample of 49 European and Latin American economies over more than 30 years to address the political economy of populism.

One of the key takeaways is that populist cycles exist in multiple countries over multiple periods. The existence of those cycles means that the single most important predictor of the demise of populism is its own rise to prominence. Voters falling for populists in Europe and Latin America in any current elections are more likely to abstain from the political extremes in the following ones, and vice versa.

Although populism lives through its own cycles, it is not independent from economic shocks. Deflationary episodes which typically coincide with recessions turn voters into the hands of populists, and insufficient social safety nets add to the



populist appeal, especially of left-wing populists. A windfall of natural resources also supports populists in both Europe and Latin America.

Demand for populism is also inherently different in Europe and Latin America. Voters in Europe demand more populism during recessions accompanied by austerity, while voters in Latin America are more sensitive to income inequality. At the same time, the Great Recession seems to have triggered a convergence of voter preferences across countries. This is indicated by the significant similarities in how voters in Europe and Latin America respond to macroeconomic shocks after the Great Recession.

Despite the ongoing political preference convergence, time invariant country characteristics are still an important factor behind the rise and fall of populist appeal. This means some countries are more prone to populism than others, which could be related to the differences in what is now commonly described as informal institutions.

This study has also shown that macroeconomic shocks have a way to exert a long-lasting impact on voter preferences for populism. This was indicated by the significance of many of the deeper lags included in the robustness checks. To adequately check how long the memory of voters with respect to populism is, it would be practical to live through another handful of election cycles across countries, and gather more data. Until then, we are bound to keep studying populism in a world of small sample biases. Still, it is a step forward from the case study approach dominating the field so far.

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