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Is this the Real Life? Ideology, Inequality, and Political Cycles in Latin America

Isto é a Vida Real? Ideologia, Desigualdade e Ciclos Políticos na América Latina

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Abstract

Does ideology matter? This article examines income inequality as a dependent variable—an uncommon approach in the literature—challenging the traditional theory of Partisan Political Cycles, which typically focuses on dependent variables such as economic growth, inflation, and unemployment. The study aims to assess whether the Party Political Cycles model, with its theoretical and methodological contributions, can account for the trajectory of income inequality. In this context, income inequality is framed as an economic factor that shapes the political process through its influence on the distribution of power. Methodologically, the research adopts a comparative approach, analyzing data from thirteen

Latin American countries over the period from 1994 to 2013. The findings suggest that, among the traditional Partisan Political Cycles models, only the one using economic growth as the dependent variable demonstrates empirical support. However, when evaluating the explanatory power of the party model, this article provides empirical evidence indicating that partisan governance does indeed affect income inequality.

Keywords: Latin America, partisan cycles, public policy.

Resumo

A ideologia importa? Este artigo examina a desigualdade de rendimentos como variável dependente — uma abordagem pouco comum na literatura —, desafiando a teoria tradicional dos Ciclos Políticos Partidários, que se centra tipicamente em variáveis dependentes como o crescimento económico, a inflação e o desemprego. O estudo visa avaliar se o modelo dos Ciclos Políticos Partidários, com os seus contributos teóricos e metodológicos, pode explicar a trajetória da desigualdade de rendimentos. Neste contexto, a desigualdade de rendimentos é enquadrada como um fator económico que molda o processo político através da sua influência na distribuição do poder. Metodologicamente, a investigação adota uma abordagem comparativa, analisando dados de treze países da América Latina no período de 1994 a 2013. Os resultados sugerem que, entre os modelos tradicionais de Ciclos Políticos Partidários, apenas o que utiliza o crescimento económico como variável dependente demonstra suporte empírico. No entanto, ao avaliar o poder explicativo do modelo partidário, este artigo fornece evidências empíricas que indicam que a governação partidária afeta de facto a desigualdade de rendimentos.

Palavras-chave: América Latina, ciclos partidários, políticas públicas.

Introduction

This study investigates whether recent empirical findings support the theory of political business cycles in Latin America and examines whether income inequality varies according to the ruling party's ideology. The political business cycle theory, particularly its partisan dimension, suggests that left wing and right wing parties adopt distinct policy approaches. Left-wing governments generally prioritize redistributive policies to reduce income inequality, while right-wing governments emphasize economic stability, often through inflation control (Hibbs, 1977; Alesina, 1987; Huber and Stephens, 2012).

The research tests this theory using a panel dataset of 13 Latin American countries from 1994 to 2013, encompassing 260 observations. Employing robust causal inference techniques and statistical models, the study explores the relationship between political cycles and income inequality, contributing empirical evidence to the Political Science literature and assessing the relevance of classic theories in the Latin American context.

The paper is structured into five sections: a review of traditional political business cycle models with a focus on income inequality, hypotheses and variable

definitions, empirical strategy and statistical modeling, presentation of results, and a conclusion summarizing the key findings.

Party Political Cycles and the Place of Income Inequality

The allocation of public resources is key in political science, influencing institutions and serving as political power (Dahl, 1996; Lijphart, 2012). Research examines how preferences shape distribution, linking it to economic policy cycles (Downs, 1999; Nordhaus, 1975; Alesina, 1987). Hibbs (1977) introduced ideology, leading to 'partisan models' exploring its effect on policies, though debates persist on its impact on macroeconomic and social variables.

Income inequality undermines political equality, weakening democracy (Lijphart, 2012; O'Donnell, 1999; Huntington, 1993). Often viewed through an economic lens, its role in politics is underexplored. Kerstenetzky (2002) refuted 'trickle-down' growth, showing structural inequalities perpetuate poverty, erode social cohesion, and harm democracy. Redistributive policies are vital to address these issues.

This study adopts the CPO perspective, asserting that party ideology shapes resource allocation. Left-wing parties emphasize redistribution, while right-wing parties prioritize inflation control. Fiscal policy is central to implementing these ideologies. Figure 1 outlines a framework linking party cycles to income inequality, guiding the analysis.

Party Political
Cycles

Fiscal Policy

Social Welfare

Income Inequality

Source: Elaborated by the authors.

Figure 1 – Theoretical approach and the 'place' of inequality.

Research increasingly views income inequality as politically driven, shaped by electoral power dynamics. Studies highlight government policies, particularly through party political cycles, as key influences on inequality.

Bradley et al. (2003) found left-wing parties in post-industrial democracies reduced inequality via progressive taxes, transfers, and union support. Morley (2001) attributed Latin America's inequality to colonial legacies of concentrated power and limited access to education and infrastructure. Huber et al. (2006) showed left-wing governments in Latin America and the Caribbean (1970–2000) significantly reduced wage disparities through redistributive policies.

Huber and Stephens (2012) emphasized that structural barriers weakened leftist parties, limiting redistribution. Effective policies, such as conditional cash transfers and universal programs funded by taxes, reduced inequality but require middle-class support for sustainability.

These studies, while valuable, overlook critical political processes, recent shifts in power dynamics, and economic growth over the past two decades, limiting their ability to address contemporary income inequality in Latin America.

We acknowledge that the temporal scope of this study (1994–2013) did not explicitly account for the impact of the economic boom driven by raw material exports to China—a factor that may have influenced leftist governments' resource distribution policies across the region. As noted by Lustig (2018) in her research on inequality, periods of economic growth can enhance state capacity to reduce social disparities. However, this dynamic is far from uniform, as illustrated by the case of Venezuela, where the long-standing presence of a leftwing government did not prevent persistently high levels of inequality. Given that social inequality is a multidimensional and highly complex phenomenon, we recognize this limitation and suggest that future research further explore the interplay between economic cycles and redistributive policies, in order to gain a more comprehensive understanding of how these variables affect the context under study.

Table 1 - Literature Referenced

Author (year)	Dependent Variables	Explanatory variables	Period	Unit of Analysis	Estimation Method
Morley (2001)	Change in inequality	Income; inflation; higher education; basic education; previous level of inequality; land distribution; urbanization; reforms such as privatization, financial, tax, trade liberalization, and education.	1970 - 1995	122 observations, 20 countries: Argentina, Bahamas, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, and Venezuela.	Least square
Bradley <i>et. al.</i> (2003)	Change in inequality; Inequality rate before transfer programs.	Government ideology; income transfer programs; constitutional structure; wage coordination; wage dispersion; GDP per cap- ita; education; vocational education; unemployment; industrial employment; trade openness; imports; young population; female labor force; female-headed households.	1967 - 1997	61 observations, 14 countries: Netherlands, Belgium, United States, Canada, Finland, Norway, Australia, Denmark, United Kingdom, Italy, France, Germany, Switzerland, and Sweden.	OLS (Robust Cluster Standard Errors)
Huber et. al. (2006)	GINI Coefficient	Political parties; social spending; economic development; inflation; demographics; ethnic composition; education; informal sector; land distribution; foreign investment.	1970 - 2000	135 observations, 18 countries: Argentina, Bahamas, Barbados, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Jamaica, Mexico, Nicaragua, Panama, Peru, Trinidad & Tobago, and Venezuela.	OLS (Robust Cluster Standard Errors)
Huber e Stephens (2012)	Income distribution; poverty; inequality.	Party ideology; social policies; institutional, historical ad social aspects.	1970 - 2000	130 observations, 18 countries in quantitative analysis, and five countries in in-depth anal- ysis: Argentina, Brazil, Chile, Costa Rica, and Uruguay.	OLS (Robust Cluster Standard Errors); qualitative analysis.

 $\label{thm:composition} \begin{tabular}{ll} Table 1 identifies five key categories influencing income inequality: ideological, economic, social, demographic, and institutional factors, summarized in Figure 2. \end{tabular}$

Ideological Aspects Economic Aspects Party ideology; Income GDP per capita; Industrial Party Ideology (left) employment; transfer programs; Social Unemployment; Informal spending. Income Inequality sector; Trade openness; Foreign investment; Wage cohesion/dispersion; Female labor force. Social Aspects Demographic Aspects Institutional Aspects Land distribution: Ethnic Population; Young Democratic stability: Institutional structure composition; Femalepopulation. (protection of rights and headed households; social policies). Educational level.

Figure 2 – Causal relations of income inequality

Source: Authors' elaboration based on Morley (2001), Bradley et. al. (2003), Huber et. al. (2006), and Huber and Stephens (2012).

Causal connections

This paper outlines the hypotheses developed within the traditional analytical framework of party political cycles. It incorporates the well-established dependent variables frequently analyzed in the literature on political party cycles—economic growth, inflation, and unemployment. Furthermore, it introduces a less-explored variable as a dependent variable: *income inequality* (see Table 2).

Table 2 – Working Hypothesis

	Hypothesis	Literature
H1	Leftist governments positively affect economic growth.	Hibbs (1977), Alesina (1987) and Borsani (2003).
H2	Right-wing governments generate lower inflation rates.	Hibbs (1977), Alesina (1987) and Borsani (2003).
НЗ	Left-wing governments reduce unemployment.	Hibbs (1977), Alesina (1987), Ames (1987), Garrett (1998) and Borsani (2003).
H4	Left-wing governments reduce income inequality.	Huber <i>et. al.</i> (2006), Huber e Stephens (2012), Morley (2001), and Bradley <i>et. al.</i> (2003)

Source: Elaborated by the authors.

We have selected four dependent variables (DVs) for this analysis: DV1) Economic Growth, DV2) Inflation, DV3) Unemployment and DV4) Income Inequality. The first three variables are traditionally analyzed in studies testing the theory of political-economic cycles from a partisan perspective. In contrast, DV4 enables us to examine income inequality not merely as a 'statistical control,' as it is often treated in the literature, but as an *outcome* shaped by a political variable—namely, *party ideology*. The specific metrics used to measure these dependent variables are detailed below:

DV1: Economic Growth was measured using the annual percentage variation in the Gross Domestic Product (GDP) of the selected countries. Data for this variable were sourced from the Economic Commission for Latin America and the Caribbean (ECLAC) and the International Monetary Fund (IMF).

 Dv_2 = Inflation was measured based on the annual percentage change in the consumer price index (CPI) of the selected countries. Data for this variable were also obtained from ECLAC and the IMF.

 Dv_3 = Unemployment was assessed as the percentage of the labor force unemployed in the selected countries. The data for this variable were sourced from ECLAC and the IMF.

 Dv_4 = Income Inequality was measured using the Gini Index, a widely recognized indicator in the literature. The Gini Index ranges from 0 to 100, providing a detailed assessment of income inequality. It is important to note that, in this analysis, the Gini coefficient is presented on a 0 to 100 scale rather than the 0 to 1 scale commonly used. Data for this variable were obtained from ECLAC and the World Bank.

For the independent variables, party ideology was identified as the primary variable of interest, supplemented by a set of control variables. Additionally, some dependent variables were treated as potential independent variables in accordance with the theoretical expectations of the models. The operationalization of these variables is detailed as follows:

- a) Party Ideology: The classification of the governing party's ideology was determined using the frameworks established by Coppedge (1997) and Colomer (2005). In cases of discrepancies between these classifications, a documentary analysis of government platforms and implemented policies was conducted, following the methodological approach of Borsani (2003) and Amorim Neto and Borsani (2004). This variable was coded as binary: 1 for years governed by left-wing parties and 0 for years governed by center or right-wing parties.
- b) Control Variables: The control variables included economic growth, inflation, unemployment rate, human capital, and trade openness.
 - Economic Growth: Measured by the annual percentage change in the GDP of the selected countries.

- Inflation: Determined using the annual percentage change in the consumer price index (CPI) of the sampled countries.
- Human Capital: Measured using the human capital index, which ranges from 0 to 4, following the methodology proposed by Barro and Lee (2012). This index incorporates years of schooling as a proxy for human capital, as advocated by Psacharopoulos (1994), Acemoglu et al. (2015), and Acs et al. (2014).
- Trade Openness: Calculated as the ratio of the combined value of exports and imports to the GDP of a given country, a measure also utilized by Segura-Ubiergo (2007).

Not all estimation models employed the full set of variables. Following the referenced literature, the model with economic growth as the dependent variable included control variables such as inflation, human capital, and trade openness. For the model using inflation as the dependent variable, the control variables considered were economic growth and trade openness. Similarly, in the model where unemployment served as the dependent variable, the control variables included economic growth, human capital, and trade openness. Finally, in the analysis of income inequality as the dependent variable, the estimation model incorporated economic growth, inflation, unemployment, and human capital as control variables (Hibbs, 1977; Ames, 1987; Alesina, 1987; Garrett, 1998; Borsani, 2003; Morley, 2001; Bradley et al., 2003; Huber et al., 2006; Huber and Stephens, 2012).

A lagged dependent variable was included as an independent variable in all statistical models, with further details provided in later sections. The variable selection follows established approaches in similar empirical studies. Table 3 lists the variables, their parameterization, and data sources, while Table 4 summarizes the dependent and independent variables and the expected causal relationships.

Table 3 - Parameterization of the selected variables

Variables	Parametrization	Туре	Source
Party ideology	Dummy: 1 for the years governed by a left-wing party, 0 for the remaining years.	Binary	Coppedge (1997) & Colomer (2005)
Economic Growth	Annual percentage change rate of GDP	Continuous	ECLAC/IMF
Inflation	Annual percentage variation of the consumer price index	Continuous	ECLAC/IMF
Unemployment	Percentage of the country's unemployed labor force	Continuous	ECLAC/IMF
Income inequality	Índice de Gini, Gini index, within a scale ranging from 0 to 100	Continuous	ECLAC/World Bank
Human Capital	The index proposed by Barro and Lee (2012) and Psacharopoulos (1994), addresses years of schooling and the macroeconomic rate of return on education investment, ranging from 0 to 4	Continuous	Penn World Table
Trade openness	The ratio of the sum of exports and imports to GDP	Continuous	ECLAC

Source: Elaborated by the authors.

Table 4 - Expected Causal Relationships

	Dependent Variables						
Independent Variables	Economic Inflation		Unemployment	Income Inequality			
Party Ideology	+	+	-	-			
Economic Growth		+	=	-			
Inflation	-		•	+			
Unemployment	•	•		+			
Human Capital	+	•	-	-			
Trade Openness	+	+/-	+/-	•			

Source: Elaborated by the authors.

Note: •= variable not incorporated in the selected reference models in this study.

Defining the unit of analysis and the historical series

Latin America was chosen as the focus due to its persistent income inequality, rooted in colonial history (Morley, 2001; Huber et al., 2006). The selected timeframe (1994–2013) reflects a period of relative economic and political stability, characterized by shifts in power across ideological groups. The analysis includes 13 countries: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, Mexico, Panama, Paraguay, Peru, Uruguay, and Venezuela.

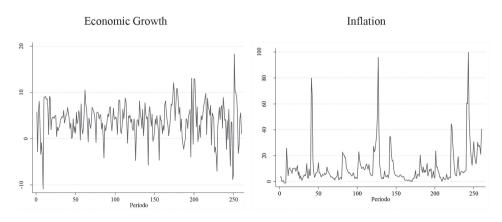
To maximize the number of observations and improve inferential accuracy, the database was constructed in a panel format, resulting in 260 observations. This methodological approach offers several advantages: it effectively manages individual heterogeneity, reduces collinearity among explanatory variables, and increases degrees of freedom (Gujarati, 2008). Furthermore, it enables the identification and measurement of effects that are difficult to detect using separate time-series or cross-sectional data (Baltagi, 2005). The construction of the database adhered to procedures outlined by Borsani (2003).

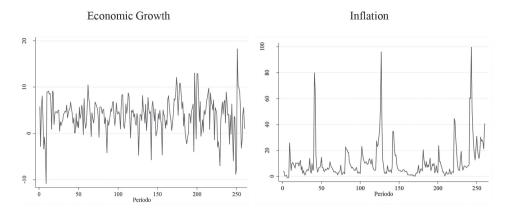
The empirical strategy

Using panel data in this study enhanced inference by increasing the number of observations (Hsiao, 2007). However, this approach required applying specific statistical procedures to address seasonal patterns or trends, ensuring accurate analysis of causal relationships between variables.

Chart 1 highlights the temporal trends of four dependent variables: Economic Growth (DV1), Inflation (DV2), Unemployment (DV3), and Income Inequality (DV4). Over the observed period, Unemployment and Income Inequality demonstrated a declining trend, whereas Economic Growth and Inflation exhibited relatively stable upward trajectories.

Chart 1 – Dependent variables in levels





Source: Elaborated by the authors

Statistical tests were conducted to assess the stationarity of the historical series for the dependent variables. The approach recommended in the literature to achieve stationarity involves applying successive differencing to the original series (i.e., the series in levels). Following the methodology proposed by Morettin and Toloi (2006), the first difference of Z(t) is defined as:

$$\Delta Z(t) = Z(t) - Z(t-1) \tag{5.1}$$

With the second difference defined as:

$$\Delta 2Z(t) = \Delta[\Delta Z(t)] = \Delta[Z(t) - Z(t-1)]$$

$$\Delta 2Z(t) = Z(t) - 2Z(t-1) + Z(t-2)$$
(5.2)

Therefore, for the n-th difference of the series Z(t), the equation is defined as:

$$\Delta^{n}Z(t) = \Delta[\Delta^{n-1}Z(t)]$$
(5.3)

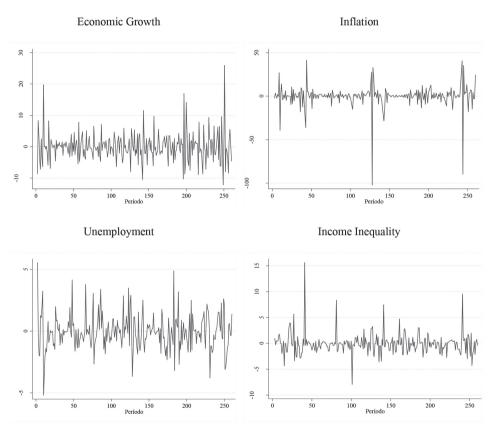
To determine the optimal number of lags, we employed the Akaike Information Criterion (AIC), Hannan-Quinn Information Criterion (HQIC), and Schwarz's Bayesian Information Criterion (SBIC). The test results revealed that the historical series achieved stationarity with one lag, as shown in Annex 1A

Unit root tests were conducted on the historical series using a single lag. The Augmented Dickey-Fuller (ADF) test and the Kwiatkowski-Phillips-Schmidt-Shin (KPSS) test were employed, with the latter serving as a complementary validation to the former. The results revealed that economic growth, unemployment, and income inequality exhibit stationarity at the first difference, whereas inflation achieves stationarity at the second difference (see Annexes 1B and 1C).

The KPSS test statistics, being lower than the critical values, corroborated the findings of the ADF test, providing no statistical evidence to reject the null

hypothesis of stationarity for the series with the specified lags. Chart 2 displays the stationary dependent variables, expressed in their differenced forms.

Chart 2 - Dependent variables in difference



Source: Elaborated by the authors

$Model\ specification$

Table 5 presents a descriptive analysis of the selected variables, accounting for the presence of missing data during specific periods within the historical series of each variable.

Table 5 - Descriptive Statistics of the Selected Variables

Variables	Observations	Mean	Standard Deviation	Minimum	Maximum	Missing
Party Ideology	260	0,40	0,49	0	1	0
Income Inequality	260	52,03	5,21	37,90	64,30	0
Percentage variation of GDP	260	3,90	3,85	-10,89	18,28	0
Annual percentage variation of inflation	260	18,61	128,76	-1,16	2075,82	0
Percentage of unemployed individuals	260	8,83	3,57	2,2	22,45	0
Human Capital	234	2,52	0,23	1,95	2,97	26
Trade openness	260	60,84	32,91	14,90	167,70	0

Source: Elaborated by the authors

Since the number of cross-sectional units (countries) is smaller than the time series length, and to address potential heteroscedasticity and residual correlation among countries, we adopted Beck and Katz's (1995) econometric approach. This method uses a linear panel data model with panel-corrected standard errors (PCSE). The Generalized Method of Moments (GMM), often used in panel structures where N<TN<T, can produce inconsistent parameter estimates (Mátyás, 1999), reinforcing the choice of the PCSE methodology.

To address the inherent autocorrelation in panel data, the PSAR1 (Panel Specific Autoregressive Process of Order 1) was applied. Additionally, we included the lagged dependent variable in the models to control for serial autocorrelation. The Hausman test (1978)^[1] was conducted to determine the appropriate estimation strategy for unobserved individual effects. The results indicated that random effects were appropriate for the first three models—where the dependent variables were economic growth, inflation, and unemployment—as the null hypothesis of no systematic difference between the coefficients could not be rejected (see Table 6). However, for the model with income inequality as the dependent variable, the null hypothesis was rejected, necessitating the use of fixed effects for this specific model.

Wald-type test where the null hypothesis is that the differences in coefficients are not systematic, meaning that
the coefficients of the model and the random effects are orthogonal. Rejecting the null hypothesis suggests
that adopting fixed effects is more appropriate, as this condition is essential in the model with random effects.

Dependent Variable	χ^2	$Prob > x^2$	Indication
Economic Growth	0.04	1.000	Random effect
Inflation	1.02	0.906	Random effect
Unemployment	1.18	0.946	Random effect
Income Inequality	15.17	0.009***	Fixed effect

Source: Elaborated by the authors. *p<10%, ** p < 5%, ***p < 1%. Note: H_0 = There is no systematic difference between the coefficients

Therefore, the causal model can be expressed in general terms through the following equation:

$$Y_{it} = \alpha_i + X_{it}\beta + \varepsilon_{it} \tag{5.4}$$

Where, with Y_{it} as the dependent variable at level, therefore:

$$(Y_{it} - Y_{i(t-1)}) = \Delta Y$$

With the equation being rewritten as:

$$\Delta Y_{it} = \alpha_i + \phi D p_{it} + \lambda y_{i(t-1)} + \sum_{z=1}^{5} \psi C_{it} + \varepsilon_{it}$$
(5.5)

Where ΔY_{it} _it corresponds to the dependent variable in each regression (economic growth, inflation, unemployment, and income inequality). α represents the intercept. Dp_{it} denotes the variable of interest, political ideology (years governed by left-wing parties). $y_{i(t-1)}$ refers to the lagged dependent variable. C_{it} includes the control variables relevant to each model: annual percentage change in inflation and GDP, the percentage of unemployed individuals, the human capital index, and the degree of economic openness. ε_{it} represents the error term; i ranges from 1 to 13, representing the countries included in the panel, and t ranges from 1994 to 2013, representing the years covered in the study. All Greek letters in the equation represent the parameters to be estimated.

Results and Discussion

This study's theoretical framework argues that party ideology influences macroeconomic variables such as economic growth, inflation, and unemployment. Left-wing governments prioritize economic growth to reduce unemployment, even at the cost of higher inflation, while center- and right-wing governments focus on controlling inflation to enhance social well-being (Hibbs, 1977; Alesina, 1987).

The analysis tests these claims through hypotheses H1, H2, and H3, examining

the impact of party ideology on traditional partisan political cycle variables. Additionally, it explores the effect of party ideology on income inequality (H4). Regression models emphasize the role of left-wing governments, with center- and right-wing governments serving as the reference category.

Table 7 presents the estimation models, highlighting coefficients and statistical significance, offering robust evidence for the hypotheses.

Table 7 - Statistical Modeling

	Models							
Dependent Variables	'Traditi	'Traditional' Dependent Variables						
	[1] Economic Growth	[2] Inflation	[3] Unemployment	[4] Income Inequality				
Party Ideology (left)	1.076 * (1.76)	1.112 (0.83)	-0.155 (-1.12)	- 0.685 ** (-2.79)				
Lagged dependent variable	- 0.789 *** (-6.33)	- 0.451 *** (-4.39)	-0.033 (-0.50)	-0.104 *** (-1.73)				
Economic Growth		-0.474 ** (-2.05)	- 0.245 *** (-11.02)	- 0.060 ** (-2.55)				
Inflation	-0.017 (-0.70)		-	0.007 *** (19.86)				
Unemployment	-	-		0.039 (1.28)				
Human Capital	2.039* (1.69)	-	0.334 (0.84)	- 3.736 ** (-3.26)				
Trade openness	0.013 ** (2.59)	0.008 (0.86)	-0.001 (-0.06)	-				
Fix Efect	-	-	-	Omited				
Constant	-3.209 (-1.06)	0.862 (0.69)	0.120 (0.12)	10.146 ** (3.18)				
Number of Observation	221	221	208	232				
R^2	0.412	0.257	0.441	0.368				
Wald X²	48.44	22.73	142.12	642.12				
Prob > X ²	0.000	0.000	0.000	0.000				

Source: Elaborated by the authors. * \mathbf{p} < 10%, ** \mathbf{p} < 5%, *** \mathbf{p} < 1%, and Z-statistic in parentheses. Note: Linear estimator of panel data with corrected standard errors (PCSE) with PSAR1.

Model [1] in Table 7 tests hypothesis H1, showing that party ideology is statistically significant and supports theoretical expectations. During left-wing governments, economic growth increased by 1.07 units compared to center- or right-wing administrations. Among control variables, the lagged dependent variable, human capital, and trade openness were also significant. Past economic performance negatively affected current growth, while higher human capital added 2.03 units to growth. Greater trade openness contributed a modest 0.013 units, aligning with findings by Acemoglu et al. (2015) and Acs et al. (2014). Inflation, however, was not statistically significant, indicating no measurable impact on growth in this dataset.

Model [2], testing H2, shows that while party ideology aligns with expectations (inflation tends to rise under left-wing governments), it is not statistically significant, suggesting no clear link between ideology and inflation. Among control variables, the lagged dependent variable and economic growth were significant but unexpectedly negatively correlated with inflation. Trade openness was not significant, indicating no measurable effect on inflation in this dataset.

Model [3], testing H3, showed the expected sign for partisan ideology but no statistically significant association with unemployment. The only significant variable was GDP growth, confirming that higher economic growth correlates with lower unemployment. Human capital, trade openness, and the lagged dependent variable were not significant, leaving their effects inconclusive.

Model [4] extends party political cycle theories by incorporating income inequality as a dependent variable tied to party ideology, testing H4. Fixed-effects model results indicate that left-wing governments reduce wage inequality compared to center- and right-wing governments. The variables in this model demonstrated causal directions consistent with predictions in the literature, although unemployment was not statistically significant. Other control variables, however, showed significance at varying levels: inflation at p < 1%, economic growth and human capital at p < 5%, and the lagged dependent variable (past income inequality) at p < 10%.

Ideology matters

The analysis shows that, in Latin America during the study period, left-wing governments increased economic growth rates by an average of 1% compared to center- or right-wing governments, holding other factors constant. This effect persists when controlling for human capital, trade openness, and prior economic growth, consistent with findings by Hibbs (1977), Alesina (1987), and Alesina and Rosenthal (1995). This outcome likely reflects the adoption of credit expansion policies and income transfer programs, which boosted household consumption and stimulated economic growth.

Left-wing governments were associated with a 1.1% average increase in inflation compared to other ideological orientations, though the coefficient was not statistically significant, aligning with Borsani's (2003) findings. This may reflect a regional consensus on inflation control, shaped by historical inflation crises, the electoral appeal

of anti-inflation policies, and commitments to international organizations, explaining the lack of statistical significance.

Regarding unemployment levels, the data suggest that while the coefficient for left-wing party governance indicated the expected effect of reducing unemployment, it was not statistically significant. A possible explanation for this pattern lies in the role of automatic stabilizers within the economy, such as unemployment insurance, which has become institutionalized as a state policy rather than a government-specific initiative. These mechanisms may reduce the urgency of job seeking among unemployed individuals, thereby dampening the direct impact of political ideology on unemployment rates. In Model [3], a decisive variable for reducing unemployment was economic growth, consistent with theoretical expectations. However, other variables, such as the stock of human capital—, which did not exhibit the expected causal sign—and international market integration, were not statistically significant. This highlights the dominant role of macroeconomic performance over structural factors in influencing unemployment rates.

Model [4] innovatively incorporated income inequality as a dependent variable within party political cycle analysis. The results confirmed that left-wing governments reduce income inequality more effectively than center- or right-wing governments. This supports the applicability of party political cycle theories in linking ideology to income inequality patterns during the study period, aligning with findings by Huber et al. (2006), Huber and Stephens (2012), Morley (2001), and Bradley et al. (2003).

Table 3 shows that party ideology is statistically significant at the 5% level, indicating an average reduction of 0.68 points in the Gini index (0–100 scale) for each year under a left-wing government. For example, a country starting with a Gini index of 60.0 would see it decrease to 57.3 over a four-year term—a 4.5% reduction in income inequality. This effect was observed while controlling for economic growth, inflation, and human capital. However, income inequality in Latin America had been declining since the 1990s, so left-wing governments cannot be credited as the sole drivers of this trend. Instead, they seem to amplify and accelerate the existing reduction compared to center- and right-wing governments.

The lagged dependent variable was statistically significant; showing that higher past inequality is associated with greater reductions in the current period, consistent with the continent's downward inequality trend. Economic growth was also significant, supporting the commonly observed link between higher GDP growth and reduced income inequality. However, as noted by Ahluwalia (1976), Kuznets (1970), Adelman and Robinson (1988), and Anand and Kanbur (1993), there is no consensus on the growth-inequality relationship.

The findings reveal that inflation significantly impacts income inequality, with a 1% significance level, supporting Huber and Stephens (2012). Controlling inflation benefits the poor disproportionately by increasing their purchasing power, as exemplified by Brazil's 1994 Real Plan, which curbed inflation and served as a major redistributive

measure. In contrast, the unemployment rate was not statistically significant, leaving its effect on income inequality inconclusive, potentially due to the role of automatic stabilizers like unemployment insurance acting as anti-cyclical mechanisms.

Human capital proved to be the most influential factor in reducing income inequality. In Model [4], a one-point increase in the human capital index led to a 3.7-point reduction in the Gini index, significant at the 5% level.

While this study does not explore the specific mechanisms through which left wing governments in Latin America reduced income inequality, certain trends are notable. Cash transfer programs expanded significantly under leftist leadership, scaling up, reaching broader populations, and spreading regionally. Although the volume of resources allocated to these programs could serve as a proxy for their impact, this study focused on whether party ideology influenced wage disparities rather than evaluating direct policy effects.

The findings indicate that party ideology significantly affects income inequality, with the public budget serving as a critical tool for left-wing governments to drive redistribution. These results underscore the importance of political ideology in shaping income inequality patterns in Latin America.

Conclusions

This study analyzed the influence of party ideology on four key variables: economic growth, inflation, unemployment, and particularly income inequality, aiming to test the partisan theory of political economy cycles in Latin America from 1994 to 2013. Specifically, it sought to determine whether party political cycles explain the observed trend of declining income inequality in the region. By treating income inequality as a dependent variable shaped by political decisions, the paper shifts focus from the traditional view of inequality influencing politics to exploring how ideology impacts inequality, contributing to Brazilian political science.

The study built hypotheses based on the theory of party political cycles, proposing causal links between party ideology and macroeconomic variables, and notably, between ideology and income inequality. The findings suggest that income inequality is not merely an economic by-product but also a result of political decisions. This approach highlights the role of social choices and conflicts of interest in shaping public policies, offering the possibility of altering inequality patterns over time.

The results provide initial evidence that party ideology influences income inequality trajectories. However, the study did not examine specific mechanisms used by left-wing governments to reduce inequality, such as redistributive programs or poverty reduction measures. These questions present a promising research agenda for future studies, emphasizing the potential of political action to transform this persistent social issue.

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References

- Acemoglu, D., Naidu, S., Restrepo, P., & Robinson, J. A. (2015). *Democracy does cause growth* (NBER Working Paper No. 20004). National Bureau of Economic Research. https://www.nber.org/papers/w20004
- Acs, Z. J., Estrin, S., Mickiewicz, T., & Szerb, L. (2014). *The continued search for the Solow residual: The role of national entrepreneurial ecosystem* (IZA Discussion Paper No. 8652). IZA Institute of Labor Economics.
- Adelman, I., & Robinson, S. (1988). Income distribution and development. In C. Hollis & T. N. Srinivasan (Eds.), *Handbook of development economics* (Vol. 1, pp. 949–1003). North Holland.
- Ahluwalia, M. S. (1976). Inequality, poverty, and development. *Journal of Development Economics*, 3(4), 307–342.
- Alesina, A., & Rosenthal, H. (1995). *Partisan politics, divided government, and the economy.*Cambridge University Press.
- Alesina, A. (1987). Macroeconomic policy in a two-party system as a repeated game. *The Quarterly Journal of Economics*, 102(3), 651–678.
- Ames, B. (1987). *Political survival: Politicians and public policy in Latin America*. University of California Press.
- Amorim Neto, O., & Borsani, H. (2004). Presidents and cabinets: The political determinants of fiscal behavior in Latin America. *Studies in Comparative International Development*, 39(1), 3–27.
- Anand, S., & Kanbur, R. (1993). The Kuznets process and the inequality-development relationship. *Journal of Development Economics*, 40(1), 25–52.
- Baltagi, B. H. (2005). *Econometric analysis of panel data* (3rd ed.). John Wiley & Sons Ltd.
- Barro, R. J., & Lee, J. W. (2012). A new data set of educational attainment in the world, 1950–2010. *Journal of Development Economics*,104, 183–198.
- Beck, N., & Katz, J. (1995). What to do (and not to do) with time-series cross-section data in comparative politics. *American Political Science Review*, 89(3), 634–647.
- Borsani, H. (2003). Eleições e economia: Instituições políticas e resultados macroeconômicos na América Latina (1979–1998). Editora da UFMG.
- Bradley, D., Huber, E., Moller, S., Nielsen, F., & Stephens, J. D. (2003). Distribution and redistribution in postindustrial democracies. *World Politics*, 55, 193–228. https://doi.org/10.1353/wp.2003.0009
- Choi, S. O., Bae, S., Kwon, S., & Feiock, R. (2010). County limits: Policy types and expenditure priorities. *The American Review of Public Administration*, 40(1), 29–45.
- Colomer, J. (2005). The left-right dimension in Latin America (Working Paper No. 813). UPF Economics and Business.
- Coppedge, M. A. (1997). *A classification of Latin American political parties* (Kellogg Institute Working Paper No. 244). University of Notre Dame.
- Dahl, R. (1996). Equality versus inequality. PS: Political Science and Politics, 29(4), 639-648.

- Downs, A. (1999). An economic theory of democracy. Harper and Row.
- Esping-Andersen, G. (1990). The three worlds of welfare capitalism. Princeton University Press.
- Franzese Jr., R. (2000). Electoral and partisan manipulation of public debt in developed democracies, 1956–90. In R. Strauch & J. Von Hagen (Eds.), *Institutions, politics, and fiscal policy* (Vol. 2, pp. 61–83). Cambridge University Press.
- Garrett, G. (1998). Partisan politics in the global economy. Cambridge University Press.
- Gujarati, D. N. (2008). Basic econometrics (5th ed.). McGraw-Hill Education.
- Hausman, J. A. (1978). Specification tests in econometrics. *Econometrica*, 46(6), 1251–1271. https://doi.org/10.2307/1913827
- Hibbs, D. A. (1977). Political parties and macroeconomic policy. *American Political Science Review*, 71(4), 1467–1487. https://doi.org/10.2307/1961496
- Hicks, A., & Swank, D. H. (1984). Government redistribution in rich capitalist democracies. *Policy Studies Journal*, 13(2), 265–286. https://doi.org/10.1111/j.1541-0072.1984. tboo624.x
- Hsiao, C. (2007). Analysis of panel data (2nd ed.). Cambridge University Press.
- Huber, E., & Stephens, J. D. (2012). *Democracy and the left: Social policy and inequality in Latin America*. University of Chicago Press.
- Huber, E., Nielsen, F., Pribble, J., & Stephens, J. D. (2006). Politics and inequality in Latin America and the Caribbean. *American Sociological Review*, 71(6), 943–963. https://doi.org/10.1177/000312240607100606
- Huntington, S. P. (1993). The new world disorder. In L. Diamond & M. F. Plattner (Eds.), *The global resurgence of democracy* (pp. 1–15). Johns Hopkins University Press.
- Kneebone, R. D., & McKenzie, K. J. (2001). Electoral and partisan cycles in fiscal policy: An examination of Canadian provinces. *International Tax and Public Finance*, 8, 753–774. https://doi.org/10.1023/A:1013090324131
- Kerstenetzky, C. L. (2002). Por que se importar com a desigualdade? *DADOS Revista de Ciências Sociais*, 45(4), 649–675. https://doi.org/10.1590/S0011-52582002000400002
- Kuznets, S. (1970). Crecimiento económico y estructura económica. Gustavo Gili.
- Kwiatkowski, D., Phillips, P. C. B., Schmidt, P., & Shin, Y. (1992). Testing the null hypothesis of stationarity against the alternative of a unit root. *Journal of Econometrics*, 54(1–3), 159–178. https://doi.org/10.1016/0304-4076(92)90104-Y
- Lijphart, A. (2012). *Patterns of democracy: Government forms and performance in thirty-six countries* (2nd ed.). Yale University Press.
- Lustig, N. (Ed.). (2018). Commitment to equity handbook: Estimating the impact of fiscal policy on inequality and poverty. Brookings Institution Press.
- Mankiw, N. G. (2017). Principles of macroeconomics (8th ed.). South-Western College Pub.
- Mátyás, L. (1999). Generalized method of moments. Cambridge University Press.
- Morettin, P. A., & Toloi, C. M. C. (2006). *Análise de séries temporais* (2ª ed., rev. e ampl.). Edgard Blücher.

- Morley, S. (2001). *The income distribution problem in Latin America and the Caribbean*. United Nations Press.
- Nordhaus, W. D. (1975). The political business cycle. *Review of Economic Studies*, 42(2), 169–190. https://doi.org/10.2307/2296528
- O'Donnell, G. (1999). Polyarchies and the (un)rule of law in Latin America. In G. O'Donnell, J. Méndez, & P. S. Pinheiro (Eds.), *The (un)rule of law and the underprivileged in Latin America* (pp. 29–63). University of Notre Dame Press.
- Psacharopoulos, G. (1994). Returns to investment in education: A global update. *World Development*, 22(9), 1325–1343. https://doi.org/10.1016/0305-750X(94)90007-8
- Quality of Government Institute (QOG). (2015). *Quality of Government Dataset*. http://qog.pol.gu.se/data
- Segura-Ubiergo, A. (2007). The political economy of the welfare state in Latin America: Globalization, democracy, and development. Cambridge University Press.
- Sugiyama, N. B. (2011). The diffusion of conditional cash transfer programs in the Americas. *Global Social Policy*, 11(2-3), 250-278. https://doi.org/10.1177/1468018111421295
- World Economic Outlook Database. (2015). *International Monetary Fund (IMF)*. http://www.imf.org/external/pubs/ft/weo/2011/02/weodata/index.aspx

ANNEXES

Annex 1 Tests for defining the number of lags of the dependent variables 256 observations.

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
Economic	Growth							
0	-707,59	-	-	-	14,84	5,53	5,54	5,54
1	-694,50	26,17*	1	0,00	13,51*	5,44*	5,45*	5,46*
2	-694,31	0,37	1	0,54	13,59	5,45	5,46	5,48
3	-693,18	2,25	1	0,13	13,58	5,44	5,47	5,50
4	-692,64	1,08	1	0,29	13,63	5,45	5,48	5,51
Inflation								
0	-1038,44	-	-	-	196,90	8,12	8,12	8,13
1	-955,88	165,10*	1	0,00	104,12	7,48	7,49*	7,51*
2	-954,41	1,95	1	0,08	103,74*	7,47*	7,49	7,52
3	-954,41	1,00	1	0,99	104,55	7,48	7,50	7,54
4	-954,39	0,04	1	0,84	105,35	7,49	7,52	7,56
Unemploy	ment							
0	-676,89	-	-	-	11,68	5,29	5,30	5,30
1	-470,44	412,90	1	0,00	2,34	3,69	3,70	3,71*
2	-468,28	4,30*	1	0,03	2,32*	3,68*	3,69*	3,72
3	-468,03	0,50	1	0,47	2,33	3,68	3,71	3,74
4	-467,47	1,11	1	0,29	2,34	3,69	3,71	3,76
Income Inc	equality							
0	-787,27	-	-	-	27,67	6,15	6,16	6,17
1	-540,69	493,17*	1	0,00	4,06*	4,23*	4,25*	4,26*
2	-540,10	1,18	1	0,27	4,07	4,24	4,25	4,28
3	-539,31	1,58	1	0,20	4,08	4,24	4,26	4,30
4	-539,29	0,02	1	0,88	4,11	4,25	4,28	4,32

Source: Elaborated by the authors

Annex 1B Augmented Dickey-Fuller (ADF) Unit Root test.

Variable	Lag	t-statistic	p-value	Critical value		
variable	(lags)			10%	5%	1%
Economic Growth	1	-9.844	0.000	-2.570	-2.880	-3.459
Inflation	2	-8.858	0.000	-2.570	-2.880	-3.459
Unemployment	1	-4.669	0.000	-2.570	-2.880	-3.459
Income Inequality	1	-15.555	0.000	-2.570	-2.880	-3.459

Source: Elaborated by the authors

Note: H_0 : $\rho = 0$ (existence of a unit root in the series) was rejected at the significance level in bold. Test run with no constant and no trend in the equation. Number of observations = 430.

Annex 1C Kwiatkowski, Phillips, Schmidt and Shin (KPSS) Unit Root Test.

Variable	Lag	LM Statistics	Critical Value			
variable	(lags)	(Lagrange Multiplier)	10%	5%	1%	
Economic Growth	1	0.043	0.216	0.146	0.119	
Inflation	2	0.067	0.216	0.146	0.119	
Unemployment	1	0.017	0.216	0.146	0.119	
Income Inequality	1	0.019	0.216	0.146	0.119	

Source: Elaborated by the authors.

Note: H_0 : $\rho < 0$ (the series is stationary) was not rejected at the significance level in bold. Test run with no constant and no trend in the equation. Number of observations = 430.

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