

# Preferences for income redistribution in unequal contexts: Changes in Latin America between 2008 and 2018

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# **ABSTRACT**

In a developing and highly unequal region like Latin America, it is crucial to understand the 3 determinants that affect people's support for redistribution of resources from the state. A series of 4 theories focused on self-interest have continuously established a negative link between people's income and their support for the reduction of inequalities through redistribution. Despite this, the 7 evidence is scarce and sometimes contradictory while its study in Latin America is almost nonexistent. Using data from the LAPOP Survey between 2008 and 2018, a longitudinal dimension is considered for the first time in the measurement of Latin American redistributive preferences, 9 using hybrid multilevel regression models. In contrast to the evidence from studies conducted in 10 other regions, the results reveal that in Latin America it is not possible to detect a clear association 11 between income and redistributive preferences at specific times, but it is possible when changes 12 occur in countries' levels of inequality and economic development. Likewise, other elements that consistently affect preferences are evident, such as educational level, political ideology, 14 and confidence in the political system. In light of this evidence, comparisons are made with 15 previous research findings in industrialized countries, challenging rationalist theories of justice 17 and solidarity.

18 Keywords: Redistributive preferences, income, inequality, economic development, Latin America

#### 1 INTRODUCTION

The redistribution of resources within a society constitutes one of the basic elements of the social 19 20 contract and plays a key role in reducing poverty and inequality (Hoffman and Centeno 2003) Traditional perspectives on redistribution assume that in contexts of high inequality there will be a greater demand 21 22 for the redistributive action of the state, particularly through the election of representatives who favor 23 redistribution through the political action of governments (assuming a democratic context). For this reason, 24 identifying the degree of people's support for redistribution and understanding the main determinants that explain it is an exercise of great importance, even more so in contexts of high poverty and inequality such 25 26 as Latin America. Although this region has shown signs of decreasing poverty and inequality (Lustig, 27 Lopez-Calva, and Ortiz-Juarez 2013; Dayton-Johnson 2015) a large body of evidence concludes that Latin America is the most unequal region in the world (Bértola et al. 2009; Williamson 2015; CEPAL 2016) and,

more seriously, that it has maintained this position steadily since the middle of the last century (Mann and Riley 2007) This raises a question about the degree of support for redistribution in highly unequal contexts and its possible role in reducing inequality.

Within this framework, this study is guided by the following question: What do redistributive preferences look like, and how do they change in less industrialized societies with high economic inequality? While it is generally assumed that people with higher incomes will be more resistant to the redistributive action of the state for reasons of self-interest, most research to date has been implemented in comparatively more egalitarian contexts. This situation opens up the question of whether inequality would be an element that would increase pressure for redistribution and thus lessen the differences between individuals of different socioeconomic levels in their redistributive preferences (Dimick, Rueda, and Stegmueller 2016; Dimick, Rueda, and Stegmueller 2018) On the other hand, most research on preferences analyzes this phenomenon in a static way without considering whether changes in inequality levels have an impact on greater or lesser support for redistributive policies.

The lack of studies on redistributive preferences in unequal contexts, and on their change, is mainly due to the scarcity of specific data containing these variables at different moments in time and for a set of countries. Fortunately, the Latin American Public Opinion Project (LAPOP) survey offers for the first time the opportunity to analyze the redistributive preferences in 17 Latin American countries over a ten-year time horizon (2008–2018). Along with the availability of these data, advances in the analysis and modeling of longitudinal change with cross-sectional data (Schmidt-Catran and Fairbrother 2016) (or more generically, multilevel hybrid models) have also been recently published. So far these models have not been applied to the Latin American region, or even internationally on the topic of preferences, thus representing a double contribution.

This article is structured into five sections. First, evidence regarding individual and contextual determinants in redistributive preferences is discussed, focusing on the self-interest approach and its criticisms. In the second section, the methodology used is described, including details regarding the sample, the variables, and the hybrid multilevel regression models used. Thirdly, the results are presented, divided into two sub-sections: descriptive analysis, identifying national and temporal trends in support for redistribution; and multilevel estimation, presenting the results of the statistical models with emphasis on the analysis of change over time. The fourth section discusses the results in comparison to the literature, and the last section gives an account of the main conclusions that arise from this research as well as its limitations and future lines of study based on the findings.

## 2 REDISTRIBUTION AND INEQUALITY

With the increase in inequalities, the rise in the concentration of wealth, and the crisis of the welfare states across a wide range of countries, preferences for redistribution have become a topic of increasing academic interest (Rueda and Stegmueller 2019) The study of preferences is inserted in a discussion where it shares ground with attitudes toward the welfare state (Eger and Breznau 2017; Roosma, Oorschot, and John Gelissen 2014; Reeskens and Oorschot 2012) forms of social solidarity (Janmaat and Braun 2009) agreement with social policies (Kwon and Curran 2016) and perception and legitimization of inequalities, among others. Since this study arises from the premise that attitudes toward public policies can be understood by explanations at different levels (A F Alesina and Giuliano 2009) the literature review will be structured in two sections: first, regarding factors of an individual nature (A F Alesina and Giuliano

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2009; Franko, Tolbert, and Witko 2013; Leslie McCall 2013) and secondly, those at the country level (Edlund 1999; Isaksson and Lindskog 2009; Kenworthy and L. McCall 2007) 70

#### Individual factors of redistributive preferences 2.1 71

Self-interest, income, and objective position.

73 If there is one certainty within the study of redistributive preferences, it is that the great majority give the theory of the median voter a pioneering and fundamental role (A F Alesina and Giuliano 2009; Berens 74 75 2015b; A M J Castillo and Sáez Lozano 2010; J C Castillo, Palacios, et al. 2015; Dhami and Al-Nowaihi 2010; Dhami and Al-Nowaihi 2010; Keller, Medgyesi, and Tóth 2010; Lübker 2004; Leslie McCall 2013) 76 In their classic model, Meltzer and Richard (1981) based on Romer (1975) established that the greater 77 78 the inequality in countries, the greater the tendency for voters to support social spending, resulting in an increase in the effective redistribution of wealth between rich and poor. This would occur because in 79 more unequal contexts the median-income voter will be poorer than the average-income voter, so most 80 individuals will have incentives to vote for redistribution. In a democratic context of open elections, this 81 would translate into a greater effective redistribution of resources within a society, maintaining a kind of distributive self-regulation. 83

The median-voter hypothesis is based on the so-called "self-interest approach" perspective that assumes a direct relationship between the socioeconomic position of the subject within the social structure and its interpretations and provisions in terms of distributive justice. It is argued, then, that the position held by the subjects determines a different exposure to the risk of falling into an economically undesirable situation and that the latter would be responsible for generating different patterns of self-interest (Wegener and Liebig 2000) Thus, this perspective guarantees that the relative position before risk, experienced differently by the subjects, would be an essential condition of the importance attributed to redistribution (Barth, Finseraas, and Moene 2015; Rehm, Hacker, and Schlesinger 2012)

Previous studies have identified a number of factors that are linked to different redistributive preferences. 92 Determinants such as status—in terms of educational or occupational level—or social class of belonging—at 93 the level of position in the productive structure—are used as an expression of self-interest, as well as 94 the labor condition (Gijsberts 2002) The most commonly analyzed determinant, however, is income. In 95 addition to Meltzer and Richard (1981) Franko, Tolbert, and Witko (2013) state that belonging to a low-96 97 income stratum is consistently associated with greater tendencies to support an increase in redistribution, 98 which would translate into an increase in the tax burden on the richest. This negative relationship between income and redistribution has also been evidenced by Bernasconi (2006) Iversen (2005) Jaeger (2005) 99 100 and Jaeger (2006) and Finseraas (2009), all of whom endorse the significant downward trend in support 101 for redistribution as people's income increases. The explanation for this widely studied relationship is 102 supported by what Szirmai (1986) understands as "absolute deprivation": people with higher income levels will legitimize greater inequality because a narrowing of the gaps will tend to disadvantage them. Similarly, 103 104 people with low incomes will prefer less inequality insofar as they will benefit from their current condition.

#### 2.1.2 Homo-sociologicus and the critique of self-interest. 105

In spite of the support that the theory of self-interest finds in common sense and in a series of investigations, there are also proposals and evidence that distance themselves from the mere instrumental reasons of homo-economicus, pointing out as a counterpart a homo-sociologicus that contemplates culture, values, and beliefs that go beyond personal interest (Etzioni 1988; Feldman and Zaller 1992) Therefore, issues such as political identification (J C Castillo, Madero-Cabib, and Salamovich 2013) and trust in the tax 110

- system (Alm and Torgler 2006) as well as religion (Scheve and Stasavage 2006) are elements that have
- tended to be related to the configuration of support by redistribution. The same is true for trust in the 112
- political system: it is assumed that as long as people consider that government institutions operate based on 113
- principles such as efficiency and probity, they are more likely to support welfare policies (Kumlin 2004) 114
- such as redistribution of resources and others. 115
- With respect to Latin America, the action of self-interest in shaping preferences for redistribution has 116
- also been questioned. Berens (2015a) has focused his analysis on the characteristics of the region and the 117
- differences between formal and informal workers. According to the self-interest approach, people with 118
- irregular employment would tend to have a greater support for redistribution while their economic activity, 119
- 120 being outside the formal labor system, does not entail the application of associated taxes Schmidt-Catran
- (2016) However, Berens (2015a) reveals that this relationship would operate in reverse, the interest being 121
- more influential on formal than informal workers within the region. However, given that the issue of 122
- redistributive preferences has scarcely been studied in the region, our initial approach explores the rather 123
- traditional perspective of self-interest, from which the first hypothesis of the study emerges: 124
- 125 H1: The higher the income level, the less support there is for redistributive policies.

#### 2.2 Contextual factors of redistributive preferences 126

- 127 In addition to the characteristics that define subjects at the individual level, it has been observed that
- preferences and attitudes in matters of distribution are highly influenced by elements of the context in 128
- which these people live (Wegener and Liebig 1995; Forsé and Parodi 2007) Given its particular importance 129
- in terms of narrowing the economic gaps among the population, we will discuss two major determinants at 130
- the national level: inequality and economic development. 131

#### Economic inequality. 132 2.2.1

- 133 As we noted earlier for individual factors, according to Meltzer and Richard (1981) the greater the
- inequality within countries, the greater the likelihood that individuals will agree with redistribution. This 134
- relationship can also be considered in a dynamic sense and therefore should apply both "between" countries 135
- 136 and "within" countries over time as any increase in inequality in a country will also produce a shift in the
- average voter-to-median voter ratio, making even greater demand for redistribution across the population 137
- foreseeable. 138

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- However, the empirical evidence shows that this relationship is more complex than it seems, being 139
- non-existent in some cases (Lübker 2007) and in many others showing even greater tolerance for inequality 140
- in societies (J C Castillo 2010; Sachweh and Olafsdottir 2010; Schröder 2017; Mijs 2019) Thus, a 141
- good number of studies have tended to problematize the applicability of the median-voter theory from a 142
- transversal ("between" countries) approach (A Alesina and Glaeser 2004; Kenworthy and Pontusson 2005) 143
- as well as a longitudinal ("within" countries) approach. For example, using data for eight nations between 144
- 1980 and 1990, Kenworthy and L. McCall (2007) conclude that variations in inequality within countries 145
- would not be associated with a consequent change in the generosity of redistributive policies. The same 146
- is suggested by Schmidt-Catran (2016) in European countries, who finds support for the median-voter 147
- theory at the cross-sectional but not at the longitudinal level. Furthermore, contemporary authors have 148
- seen how income inequality (Atkinson, Piketty, and Saez 2011; Huber and Stephens 2001) the divisions 149
- between included and excluded (Rueda 2008) and unemployment (Rehm 2011) have become much more 150
- frequent phenomena, without a conducive reduction of inequalities in developed countries. Despite this,
- Latin American countries seem to show a different trend in recent years where they have seen an expansion 152

- of their social policies in favor of the poorest (Garay 2010; Mares and Carnes 2009) All of this anticipates
- 154 possible shortcomings of the classic model of the middle-class voter at the macro level for the Latin
- 155 American case; however, again arguing from a more traditional and rational perspective, our second
- 156 hypothesis proposes that:
- 157 H2a (between): Countries' levels of economic inequality will be positively related to support for
- 158 redistribution.
- 159 H2b (in): Increases in economic inequality in countries will be positively related to support for
- 160 redistribution.
- Along with the direct effect of inequality on preferences for redistribution, it is possible to think that the
- 162 economic inequality of countries could also have a moderating effect, affecting the way in which various
- individual characteristics are related to the demand for redistribution. Authors such as Lupu and Pontusson
- 164 (2011) and Luttig (2013) argue that the structure of inequality is particularly relevant. For them, in more
- unequal societies there would be less difference in redistributive preferences along the different income
- strata, due to the constitution of a smaller group of privileged people and the consequent emergence of
- a parochial altruism: feelings of solidarity and affinity mostly shared along the non-benefited population
- 168 Fowler and Kam (2007)
- More recently, Dimick, Rueda, and Stegmueller (2016) and Dimick, Rueda, and Stegmueller (2018)
- 170 have strengthened this theoretical field by developing a theory known as "income-dependent altruism."
- 171 From this perspective, which combines the approaches of self-interest and altruism (Dimick, Rueda, and
- 172 Stegmueller 2018) the rich have less support for redistribution than the poor, and the increase in inequality
- 173 produces higher levels of demand for redistribution in the population. However, since people have a
- marginal utility of decreasing consumption according to their income, an increase in redistribution is less
- 175 costly for high-income sectors in terms of well-being than for lower strata, which is why the effect of
- inequality is even greater for the rich than the poor; this limits the differences between both groups in terms
- of redistributive preferences (Dimick, Rueda, and Stegmueller 2016)
- 178 Therefore, based on the concepts of social affinity, parochial altruism, and "income-dependent altruism,"
- 179 the third hypothesis of the study is:
- 180 H3: The greater the inequality of a country, the smaller the differences in redistribution preferences
- 181 between income levels.
- 182 2.2.2 Economic development.
- A second factor at the structural level that the literature has addressed in terms of well-being and
- 184 distributive justice is economic development, commonly measured by the per capita Gross Domestic
- 185 Product of countries. Among the most classic literature, the link between growth and resource distribution
- has been marked by the well-known curve proposed by Kuznets (1955) as countries develop, their inequality
- also increases, to a point where growth begins to return increasingly equitable income distributions<sup>1</sup>.
- 188 However, in terms of distributive preferences, economic development has tended to be considered as a
- 189 control variable (Rudra 2002; Schmidt-Catran 2016; Schröder 2017) with few attempts to establish a

<sup>&</sup>lt;sup>1</sup> Although originally formulated for industrialized nations, this theorem has been applied to a wide range of contexts (Alvaredo 2010; Atkinson, Piketty, and Saez 2011; Williamson 2015)

- direct and explanatory relationship between countries' wealth and their citizens' attitudes toward resource redistribution<sup>2</sup>.
- 192 In spite of this, there is a causal mechanism that would not link economic development directly to
- 193 redistributive preferences but would have a high explanatory power by generating influence on the value
- 194 configurations of the subjects: the theory of cultural change. According to Inglehart (1977) modernization
- 195 entails the emergence of post-materialistic values within societies. The increased coverage of basic needs
- 196 will lead to less economic concerns and more liberal preferences, autonomous and attentive to subsequent
- 197 needs of personal fulfillment ((Inglehart 2008)). This tendency has been linked to the perspectives of
- 198 solidarity and support for the welfare state (J. Gelissen 2000) closely related to the preferences for
- 199 redistribution.
- From this, the following hypotheses are extracted from the research:
- 201 *H4a* (between): Countries' levels of economic development will be positively related to support for 202 redistribution.
- 203 *H4b* (in): Positive changes in countries' economic development will be positively related to support for 204 redistribution.
- Just as the moderating effect of inequality was raised, we have seen how economic development can
- 206 modify the effect that certain characteristics of people—such as income—have on their own preferences
- 207 for redistribution. According to Reenock, Bernhard, and Sobek (2007) the emergence of extreme reactions
- 208 according to socioeconomic strata will occur exclusively in environments characterized by a "regressive
- 209 socioeconomic distribution," where accentuated economic development and elementary deficiencies coexist.
- 210 Coincidentally, Bowles and Gintis (2000) establish that the support of the welfare state tends to be linked to
- 211 basic moral obligations with others in order to ensure the provision of minimum welfare standards,
- 212 prioritizing a homo-sociologicus over the homo-economicus of the classical economic conceptions.
- 213 Therefore, in societies with lower levels of economic development, such as Latin America, where the
- 214 guarantee and coverage of such basic needs is less assured, self-interest would operate to a lesser extent
- 215 on the configuration of people's preferences, resulting in fewer differences toward redistribution across
- 216 income strata (Dion and Birchfield 2010) Therefore, it is possible to argue that:
- 217 *H5*: The greater the economic development of a country, the greater the differences in redistribution
- 218 preferences between income levels.
- 219 Figure 1 summarizes the hypotheses raised. The individual, contextual (country), and temporal
- 220 (country-year) levels are differentiated since each country has four measurements over time. In addition
- 221 to the direct effects on redistribution, the dotted line symbolizes the moderating effect of the contextual
- 222 variables on the relationship between income and support for redistribution.

#### 3 METHODOLOGY

#### 223 **3.1 Data**

- The data at the individual level come from the Latin American Public Opinion Project (LAPOP) socioeconomic surveys applied to households by the Latin American states themselves. The study includes
  - <sup>2</sup> Among those few, Finseraas (2009) within a sample of 22 European nations, establishes that those more developed have on average less support for redistribution, but its effect does not manage to be statistically significant.

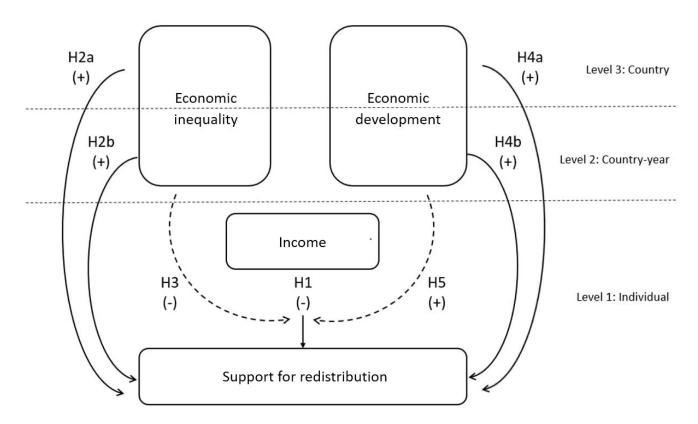


Figure 1. Hypotheses diagram

a stratified sample on three levels, consisting of: 131,787 individuals<sup>3</sup> (level 1), nested in 97 country units per year (level 2), nested in 17 countries<sup>4</sup> (level 3).

#### 228 3.2 Variables

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### 229 3.2.1 Individual variables,

The dependent variable of the study is the individual support for redistribution, measured in the question:
"The State [corresponding country] should implement firm policies to reduce income inequality between
rich and poor. To what extent do you agree or disagree with this statement?" This variable ranges from 1
("strongly disagree") to 7 ("strongly agree").

The monthly household income is established as the main independent variable. For the 2008 and 2010 waves of LAPOP, the monthly household income is divided into 10 intervals, adjusted to the national currency of each country. However, for 2012, 2014, 2016, and 2018, these intervals are 16. To solve this problem and to be able to measure the effect of the economic location of the subjects with respect to their context on their preferences for redistribution, the 10 categories of the first 2 waves were maintained, and the income of the last 4 waves was recoded from 16 to 10 income intervals for each of the country–years. Thus, income is constituted as a continuous variable ranging from 1 (poorest decile) to 10 (richest decile).

The models also consider as controls a series of individual variables that in the literature are considered influential in estimating redistribution preferences (A M J Castillo and Sáez Lozano 2010) As argued by

<sup>&</sup>lt;sup>3</sup> Observations that have valid values for all the variables of interest at an individual level, except for the variable of political ideology, where cases that do not declare it are included to avoid a greater bias of the sample.

<sup>4</sup> Cuba, Puerto Rico, and Venezuela are excluded, given their scarcity of economic information at the country level.

**Table 1.** Descriptive statistics.

Statistical	n	Mean / %	SD	Min	Max
Support for redistribution	131,787	5.629	1.627	1	7
Household income	131,787	5.058	2.716	1	10
Gender	131,787				
Male .		49.9%			
Female		50.1%			
Age	131,787	39.552	15.817	18	112
Family status	131,787				
Married		58.9%			
_Not married		41.1%			
Employment	131,787	10.00/			
No workforce		13.6%			
Unemployed		30.4%			
Employed	101 707	56.0%			
Education	131,787	00.00/			
Primary		29.0%			
Secondary		49.4%			
Tertiary	101 707	21.6%			
Political ideology	131,787	07.00/			
Right		27.0%			
Center		31.7%			
Left Not dealered		26.2%			
Not declared	101 707	15.1%	1 0 4 7	1	7
System confidence Zone	131,787	3.759	1.347	ı	7
Urban	131,787	71.0%			
Rural	07	29,0%	4.474	00.000	
GINI	97	47.709	4.171	38.000	55.500
GDP per capita	97	7.646	4.122	1.679	16.038

Brady and Finnigan (2014, p. 21) "consistently, older, female, unmarried, less educated, unemployed, and lower income respondents tend to support more social policies." That said, it will be controlled by the following variables: (i) gender (female = 0; male = 1); (ii) age, measured in years; (iii) marital status (unmarried = 0; married or cohabiting = 1); (iv) political ideology, in categories "right," "center," "left," and "undeclared"; (v) employment status, in categories "non-working," "unemployed," and "employed"; (vi) education, in categories of "primary education complete or less," "secondary education complete or less," and "tertiary education incomplete or complete"; and (vii) area of residence (rural = 0; urban = 1). It is also controlled by (viii) trust in the system which, along the same lines as Brandt (2013) and Cichocka et al. (2017) corresponds to the average trust expressed by individuals with respect to various institutions, in this case, six: the Executive, the National Congress, the judicial system, the political parties, the Armed Forces, and the national police; ranging from values of 1 (no trust) to 7 (complete trust).

#### 3.2.2 National variables

The study considers two national variables: economic inequality and economic development. Economic inequality is measured in the same way that the main studies in the field have done: through the GINI coefficient, which ranges between values of 0 (scenario of complete equality where all individuals have the same income) and 1 (complete inequality where one individual has the entire income). To improve its interpretation, the variable was multiplied by a factor of 100, so that it varies between 0 and 100. In cases

- where the information was not available for a given year, it was decided to use the information for the 260
- year prior to the missing one. Economic development is measured through the annual per capita Gross 261
- Domestic Product (GDP) by object of expenditure at constant (2015) prices in thousands of dollars. This 262
- indicator is also presented for each country-year unit. 263
- To ensure the robustness of the results, and to control for the heterogeneity not observed by the two 264
- national variables included and which could affect people's redistributive conceptions, estimates were also 265
- made by integrating the typology of welfare regimes for Latin America developed by Martinez Franzoni 266
- (2008)267

## 3.3 Hybrid multilevel regression models

- To answer the question and the objectives of the research, hybrid multilevel regression models are 269
- estimated (Fairbrother 2014) "This approach uses individual-level data and allows the decomposition 270
- 271 of country-level effects into their components across countries (cross-sectional) and within countries
- 272 (longitudinal),<sup>5</sup> while simultaneously controlling for individual-level composition effects" (Schmidt-Catran
- 2016, p. 3) Equation 1 represents the formula of the models.

$$y_{iti} = \beta_0(t) + \beta_1 X_{iti} + \gamma_{WE}(Z_{it} - \bar{Z}_i) + \gamma_{BE} \bar{Z}_i + v_i + u_{it} + e_{iti}$$

$$\tag{1}$$

- The models envisage the inclusion of three levels, represented in the components of the equation by the 274
- 275 sub-indices j for countries (level 3), t for country-years (level 2) and i for individuals (level 1). Thus,
- individuals are nested in country-years, which are nested in countries. 276
- The  $X_{jti}$  component corresponds to the individual variables, and  $\beta_1$  to the coefficients associated with 277
- the change in them. The  $Z_{jt}$  component represents a variable at the national level for a given country–year, 278
- 279 and  $Z_i$  is the average of that variable for the entire period of years, for that country. Thus,  $\gamma_{BE}$  accounts
- for the effect "between" countries, and  $\gamma_{WE}$  represents the coefficient associated with the effect of change 280
- in that variable "within" a country over time. Likewise, the model controls for unobserved time trends by 281
- means of the constant  $\beta_0(t)$ . Finally,  $v_i$ ,  $u_{it}$  and  $e_{iti}$  correspond to the errors at the country, country–year, 282
- and individual levels, respectively. 283

# **RESULTS**

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#### **Descriptive analysis** 4.1

- 285 Our sample includes 131,787 individuals, nested in 97 country–years (surveys) and 17 Latin American
- countries, which as shown in Table 1 have, on average, a high level of agreement with the redistribution, 286
- materialized by a mean of 5.6 points on a scale ranging from 1 (strongly disagree) to 7 (strongly agree). 287
- After the data imputation process previously explained, both the GINI and the GDP per capita are present 288
- for all country-years. The GINI coefficient averages 47.7 points, with the lowest at 38.0 points (El Salvador 289
- 2018) and the highest at 55.5 points (Honduras 2008). Annual GDP per capita ranges from US\$1.679
- 291 (Nicaragua 2010) to US\$16.037 (Uruguay 2018), with an average of US\$7.646 for the 97 country—years.
- If we want to describe the region in terms of preferences, there is an essential starting point: most 292
- countries express a high demand for redistribution. As can be seen in Figure 2, in all countries more than 293
- half of the people fall into categories 6 and 7 of the scale, expressing a high degree of agreement with the 294

<sup>&</sup>lt;sup>5</sup> Also known as "between" and "within" country effects.

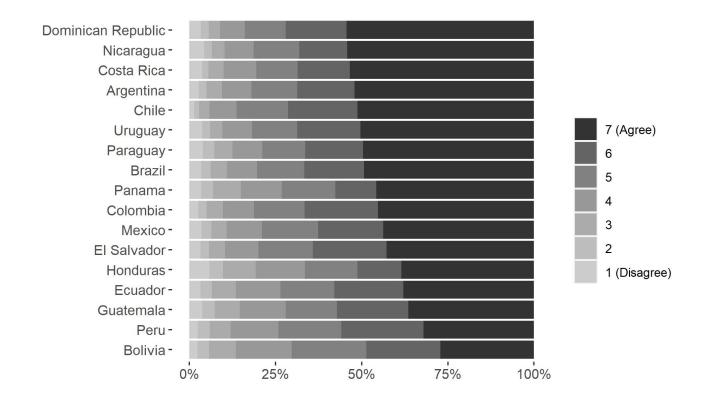


Figure 2. Support for redistribution by countries. Percentage by category.

redistribution. However, it is also possible to see differences between nations. On the one hand, countries such as Dominican Republic, Nicaragua, Costa Rica, Argentina, Chile, and Uruguay have a very high concentration of individuals who identify with narrowing economic gaps; in these countries, more than 50% of people are in complete agreement with the redistribution of income through the application of strong state policies (category 7). In contrast, in Bolivia and Peru the proportion of people who are completely pro-redistribution does not exceed 33%.

Does support for redistribution vary over time within Latin America? How stable are the preferences in this area within each country? As can be seen in Figure 3, the longitudinal behavior of preferences for redistribution is very different from that of the region. While in countries such as Argentina, Chile, Colombia, the Dominican Republic, and Honduras, people's agreement with the redistribution tend to be stable, cases such as Paraguay, Panama, Uruguay, Costa Rica, and Nicaragua show notable variations over time<sup>6</sup>.

Despite the different patterns of stability in redistributive preferences by country, there is a phenomenon that tends to be expressed indistinctly throughout most countries in the region: a decline in levels according to redistribution over time. As shown in Figure 3, most countries express a reduction in the proportion of people absolutely in line with redistribution. The period studied shows a small rise in redistributive preferences in Latin America until 2012 and a subsequent fall until 2018. In concrete terms, the dependent variable expresses an average of 5.76 points for the 2008 sample, 5.85 for 2010, 5.86 for 2012, 5.47 points for 2014, 5.40 points for 2016, and 5.34 points for 2018. Thus, it is possible to state that the demand

<sup>&</sup>lt;sup>6</sup> To more clearly observe the variations in the averages according to the redistribution by country, through the different years of measurement, review Table ?? and Figure ??, located in the appendix.

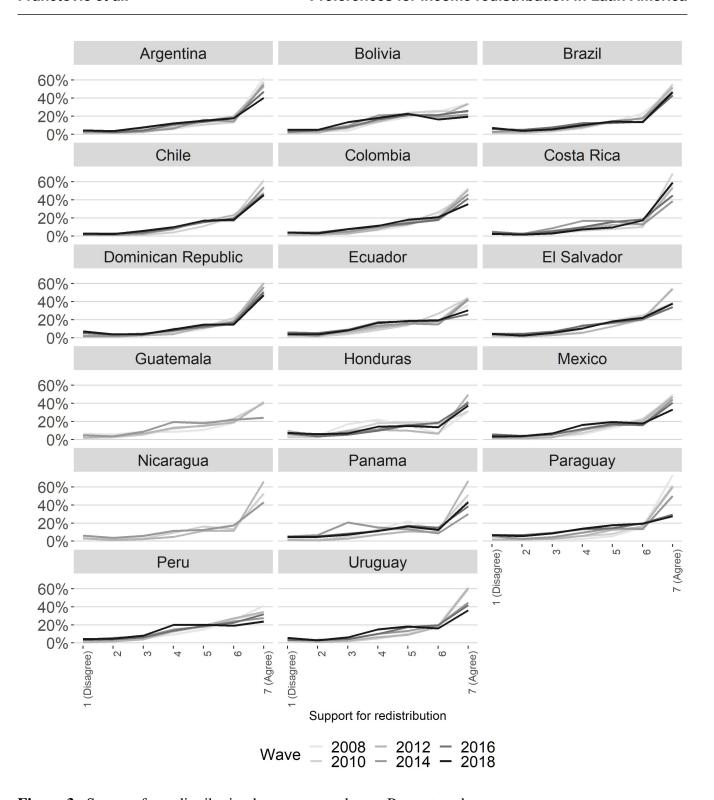


Figure 3. Support for redistribution by country and year. Percentage by category.

for redistribution in Latin America is extremely high and in the majority but that it has been declining in longitudinal terms in recent years.

Another central aspect to be evaluated is the association between income and redistributive preferences.

As can be seen in Table 2, at the regional level there is no clear pattern between the two phenomena. It could be expected that as people belong to households with higher incomes, their levels of demand for

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**Table 2.** Average support for redistribution of income deciles, by country.

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	Total
Argentina	5.90	5.97	5.83	5.80	5.87	5.84	5.87	5.79	5.85	5.80	5.86
Bolivia*	5.06	5.32	5.35	5.39	5.34	5.24	5.11	5.15	5.05	5.07	5.25
Brazil	5.81	5.87	5.77	5.78	5.82	5.63	5.61	5.75	5.64	5.62	5.76
Chile*	5.86	6.05	6.10	6.07	5.96	5.99	5.99	5.92	5.95	5.86	5.99
Colombia	5.70	5.78	5.72	5.89	5.76	5.73	5.81	5.70	5.79	5.58	5.76
Costa Rica*	5.70	5.86	5.91	5.86	5.88	5.84	5.76	5.84	5.79	5.87	5.84
Dominican Republic*	5.61	5.79	5.92	5.96	5.86	5.96	6.04	6.06	6.06	6.04	5.93
Ecuador	5.36	5.41	5.48	5.52	5.55	5.53	5.55	5.39	5.34	5.12	5.46
El Salvador*	5.54	5.52	5.77	5.75	5.78	5.74	5.68	5.69	5.62	5.63	5.68
Guatemala*	5.32	5.41	5.35	5.45	5.36	5.30	5.39	5.45	5.64	5.58	5.40
Honduras*	5.17	5.25	5.37	5.14	5.18	5.15	5.07	5.04	5.40	5.48	5.21
Mexico*	5.57	5.71	5.62	5.55	5.63	5.65	5.82	5.66	5.67	5.58	5.65
Nicaragua*	5.75	5.73	5.92	5.78	5.91	5.83	5.73	5.95	5.98	5.75	5.83
Panama	5.53	5.53	5.59	5.60	5.51	5.48	5.52	5.40	5.31	5.49	5.51
Paraguay*	5.38	5.57	5.57	5.76	5.85	5.86	5.79	5.85	5.74	5.58	5.71
Peru*	5.20	5.25	5.37	5.49	5.57	5.48	5.44	5.50	5.55	5.22	5.42
Uruguay*	6.15	5.96	5.85	5.97	5.91	5.76	5.72	5.66	5.65	5.43	5.82
Total*	5.58	5.66	5.66	5.66	5.65	5.62	5.62	5.62	5.63	5.55	5.63

Note: In bold, minimum values per country. With an asterisk, countries where there are statistically significant differences between D1 and some other income decile, at a 95% confidence level.

319 redistribution will be lower, as this state action will imply greater costs than benefits for those segments. However, in Latin America, the lowest averages of support for redistribution are found in the deciles located at both extremes: that is, the richest and poorest deciles. Table 2 shows this, where decile 10 (richest) expresses an average of 5.55 points of support for redistribution, the lowest of all the income intervals, followed by decile 1 (poorest) with an average of 5.58 points. Meanwhile, the lower-middle economic strata (deciles 2, 3, and 4) are those that show greater support for redistribution.

Regarding the relationship between people's redistributive preferences and the characteristics of the countries in which they live, it is possible to highlight a number of elements. Firstly, Figure 4 shows a predominantly negative association between the GINI coefficient of the countries and the average according to individual redistribution. That is, the more unequal the countries are, the lower their average levels of redistributive preferences tend to be. In 2008 and 2014 the slopes were the most negative in the period under study, while in 2010, 2012, and 2016 they tended to become more moderate. In 2018 it is possible to observe a slightly positive relationship between inequality and redistributive preference, which calls into question the stability of the negative relationship between both factors within the region.

The relationship between individual redistributive preferences and national economic development shows a clearer pattern than previously observed with inequality. Within the region, the richer countries—such as Chile, Uruguay, Brazil, and Argentina—tend to have citizens who are more favorable to reducing inequalities through the application of state policies while within the less economically developed nations—such as Honduras and Bolivia—there is less agreement with the redistribution, despite some exceptions such as El Salvador. Likewise, this positive relationship between economic development and redistributive preferences is constant as it shows little variation over the six time periods studied.

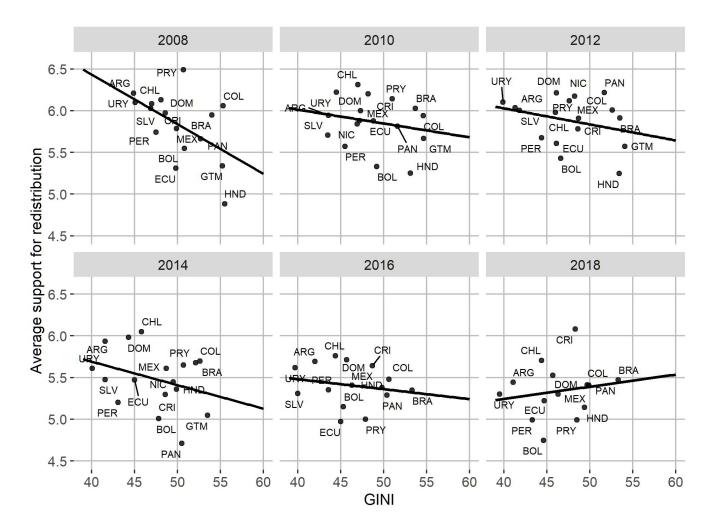


Figure 4. Average support for redistribution and GINI, by country and year.

### 4.2 Multilevel estimation

Given that the objective of this study is to analyze the distribution of redistributive preferences in the 17 countries studied and its variations over time, it is important to begin by pointing out that the dependent variable has an intra-class correlation (ICC) of 0.042 for country—years and 0.015 for countries (ICC according to Hox, 2002, p. 32, equation 2.16). This means that the variation in the agreement with the redistribution of people within Latin America is about 1.5% due to country membership and 4.2% due to country—year. According to these values, in Latin America, most of the variability in terms of redistributive preferences is related to individual differences and not to the country context or its changes over time. It should also be remembered that the variability of responses on the scale of the dependent variable is restricted (sd=1,627), which reflects a high consensus in support of redistribution and, therefore, limited space to investigate individual and contextual differences.

Table 3 presents the hybrid multilevel regression models, which estimate the agreement with the redistribution of people based on individual (level 1), country—year (level 2), and country (level 3) variables. Model 1 includes income as an independent and continuous variable, addressing the effect of an increase in one decile of the monthly household income of each country—year. Model 2 also adds control variables at the individual level.

**Table 3.** Hybrid multilevel regression models of individual support for redistribution.

	Model 1	Model 2	Model 3	Model 4
Individual-level variables Income	0.006***	0.004*	0.004*	0.001
Male	(0.002)	$(0.002) \\ 0.025^{***}$	$(0.002) \\ 0.026***$	$(0.006) \\ 0.025***$
Age		(0.010) $-0.001**$	$(0.010) \\ -0.001**$	$(0.010) \\ -0.001^{**}$
Married		$(0.000)$ $0.051^{***}$	$(0.000)$ $0.051^{***}$	(0.000) $0.054***$
Political ideology Center		(0.009) $0.009$	(0.009) $0.009$	(0.009) $0.007$
Left		$(0.012)$ $0.075^{***}$	$(0.012)$ $0.075^{***}$	(0.012) $0.080***$
Not declared		$(0.012) \\ 0.171*** \\ (0.015)$	$(0.012) \\ 0.171*** \\ (0.015)$	$     \begin{array}{r}       (0.012) \\       0.165^{***} \\       (0.015)     \end{array} $
System confidence		0.013) 0.084*** (0.003)	$0.084^{***}$ $(0.003)$	0.087***
Employment		-0.000	,	(0.003)
Unemployed Employed		-0.000 $(0.015)$ $0.018$ $(0.014)$	$0.000 \\ (0.015) \\ 0.018 \\ (0.014)$	$ \begin{array}{c} 0.004 \\ (0.015) \\ 0.014 \\ (0.014) \end{array} $
Education Secondary		0.096*** (0.012)	0.096*** (0.012)	0.103*** (0.012)
Tertiary		$0.121^{***}$ $(0.015)$	$0.121^{***}$ $(0.015)$	$0.135^{***}$ $(0.015)$
Urban		$-0.038^{***}$ $(0.011)$	$-0.038^{***}$ $(0.011)$	$-0.044^{***}$ $(0.011)$
Country-level variables GINI[BE]		(01011)	-0.010	-0.016
GINI[WE]			(0.014) $-0.008$	(0.012) $-0.010$
GDP[BE]			$(0.023)$ $0.032^{**}$	$(0.023)$ $0.042^{***}$
GDP[WE]			$(0.013) \\ -0.020 \\ (0.045)$	$(0.011) \\ 0.000 \\ (0.044)$
Constant	5.818*** (0.080)	5.398*** (0.084)	5.646*** (0.715)	5.913*** (0.607)
Time trend 2010 2012 2014 2016 2018	$\begin{array}{c} 0.027 \\ 0.028 \\ -0.364^{***} \\ -0.459^{***} \\ -0.513^{***} \end{array}$	$\begin{array}{c} 0.001 \\ 0.014 \\ -0.371^{***} \\ -0.447^{***} \\ -0.502^{***} \end{array}$	$\begin{array}{c} -0.000 \\ 0.013 \\ -0.368^{***} \\ -0.452^{***} \\ -0.506^{***} \end{array}$	$\begin{array}{c} -0.019 \\ -0.010 \\ -0.432^{***} \\ -0.563^{***} \\ -0.657^{***} \end{array}$
Variance components AIC BIC	502135.39 502233.28 -251057.70 131787 97 17 0.05 0.05 2.50	$501403.54 \\ 501618.89 \\ -250679.77 \\ 131787 \\ 97 \\ 17 \\ 0.05 \\ 0.05 \\ 2.49$	$\begin{array}{c} 501427.34\\ 501681.85\\ -250687.67\\ 131787\\ 97\\ 17\\ 0.05\\ 0.03\\ 2.49\\ \end{array}$	$\begin{array}{c} 500999.88 \\ 501293.55 \\ -250469.94 \\ 131787 \\ 97 \\ 17 \\ 0.07 \\ 0.02 \\ 2.48 \\ 0.00 \\ -0.01 \\ 0.00 \\ 0.00 \\ 0.00 \\ \end{array}$

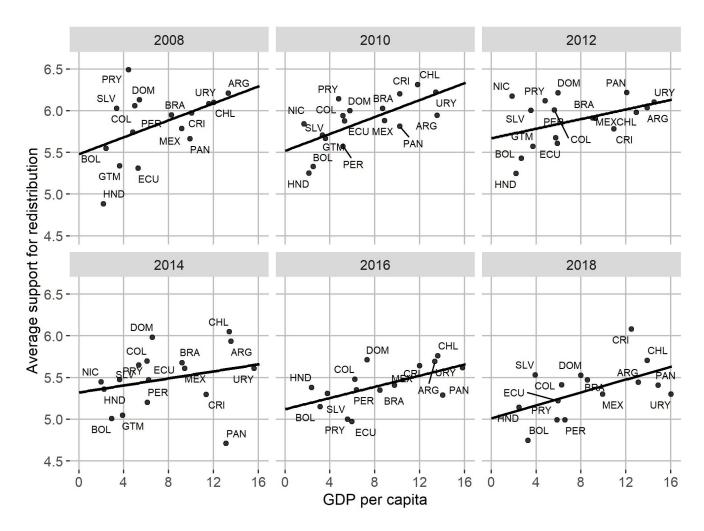


Figure 5. Average support for redistribution and GDP per capita, by country and year.

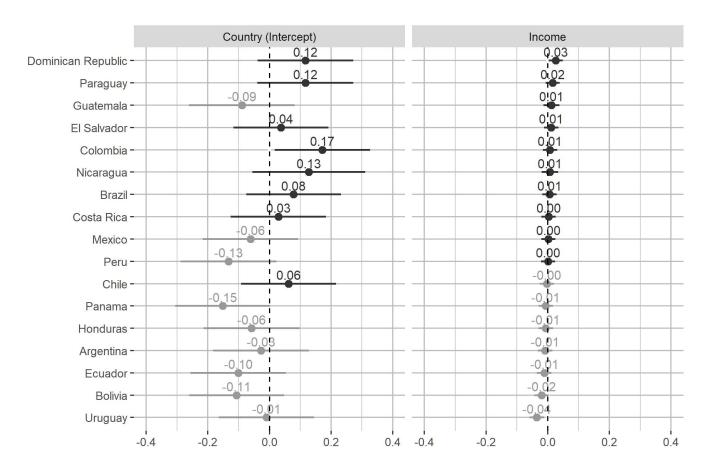
Model 3, on the other hand, integrates all the individual variables included in Model 2 and adds the inequality and economic development of the countries, each broken down into two dimensions. Firstly, the effect "between" countries [BE], represented by the average of the GINI coefficient and GDP per capita per country for the period studied (years 2008, 2010, 2012, 2014, 2016, and 2018); therefore, it is constituted as a level 3 (country) variable. Secondly, the effect of inequality "within" countries [WE] is included, concerning the change in the GINI coefficient and the GDP per capita of each country–year compared to the country average for the period studied of each of those variables. Unlike the "between" countries effect, these variables vary by country for each year, so it is a level 2 (country–year) variable<sup>7</sup>.

Finally, Model 4 works with the same independent variables of Model 3; however, it has the difference that it incorporates random slopes by country—year and country for the effect of household income. Specifically, Model 4 allows the relationship between income deciles and support for redistribution to vary by country—year (level 2) and country (level 3).

## 4.2.1 Income and individual determinants.

Among the many individual factors that influence redistributive preferences, income is of particular importance in the literature and in this study. As can be seen in Table 3, the effect of income on the support

The effects "between" and "within" tend to be abbreviated as "BE" and "WE," for their expression in English: "between effect" and "within effect".



**Figure 6.** Income random effect on support for redistribution by country: intercept and slope. Points show predicted coefficients; bars represent 95% confidence intervals.

for redistribution within Latin America is statistically significant. Although Model 1 shows an increase of 0.006 points in the scale according to redistribution with an increase of one decile in income, which is significant at 99% confidence, this effect diminishes with the addition of control variables at individual, country–year, and country level in Models 2, 3 and 4. Despite the above, it is highly probable that the relationship between income and redistributive preferences will be different depending on the country in question. Figure 6 shows the random effect of the income variable on the redistributive agreement, by country, obtained from Model 4 <sup>8</sup>.

As can be seen, the general trend of weak association between people's economic income and their demand for redistribution tends to remain within the countries of the region. Figure 6, using the income slopes and their confidence intervals, shows that in only 2 of the 17 countries studied in the region does the income decile have a statistically significant effect on the redistributive preferences, even though it is controlled by the other variables: the Dominican Republic where the higher the income, the significantly higher the redistributive preferences, and Uruguay where the higher the income, the significantly lower the redistributive preferences.

<sup>&</sup>lt;sup>8</sup> To confirm this statement, Model 2 was estimated with different measures of household income: continuous (as presented in Model 2), categorical (with income deciles as differentiated categories), and quadratic. These estimates can be found in Table ??, located in the appendix.

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385 The results show that, in contrast to income, other individual factors express a more consistent effect. As 386 can be seen throughout Table 33, the other individual variables behave stably throughout the estimated models, both in terms of magnitude and significance. Within these variables it is relevant to mention 387 education, which at higher levels is consistently associated with greater preferences for redistribution as 388 389 well as leftist political ideology and confidence in the political system.

#### 4.2.2 Inequality and economic development.

Concerning the relationship between inequality and redistributive preferences, the estimated models confirm the evidence in the previous descriptive section. Within Latin America, there is a negative 392 association between the economic inequality of nations and people's support for redistribution. This means that as countries become more unequal, people will tend to express a lower degree of support for redistribution. However, this relationship is weak since the coefficients of both the level (GINI[BE]) and change over time (GINI[WE]) of economic inequality do not express statistical significance across the estimated models.

In relation to economic development, it is possible to observe that the levels of economic development 398 between countries (GDP[BE]) show a more evident association with the levels of individual demand for 399 redistribution, showing a positive coefficient of 0.032 points and significant at 95% confidence in Model 3. 400 401 This number may seem small, but it is still relevant considering the diversity of national economic wealth in the region. On average for the period studied, the poorest country, Nicaragua, presents an average GDP 402 403 of US\$1,837 while Uruguay, the richest, averages US\$14,577 per capita. This implies that controlling for all other individual and national factors and taking into account only the effect of country-level economic 404 405 development, Uruguayans will tend to score 0.408 points higher than Nicaraguans on the redistributive 406 agreement scale, which ranges from 1 to 7. However, this trend is not observed for the change in economic 407 development within countries over time (GDP[WE]) as it manifests a neutral and not statistically significant, effect. 408

To corroborate the robustness of the results, Model 3 was estimated by controlling for "unobserved 409 heterogeneity" in terms of redistributive preferences, which could be associated with the type of welfare 410 regime in which people live and which could interfere with people's preferences and attitudes toward 411 412 inequality and redistribution (Schmidt-Catran 2016) To this end, the typology of welfare regime developed by Martinez Franzoni (2008) for Latin American countries was added to Model 3, which considers three 413 414 categories: productivist, protectionist, and informal-familialist, the latter being scarcely developed in terms 415 of welfare and social protection within Latin America (Martinez Franzoni, 2008). However, the inclusion 416 of this typology did not generate major modifications in the magnitude of the coefficients and levels of 417 statistical significance expressed in Model 3. Given the small changes involved and appealing to greater parsimony, the models are estimated without the presence of this variable. 418

#### 4.2.3 Interactions between levels. 419

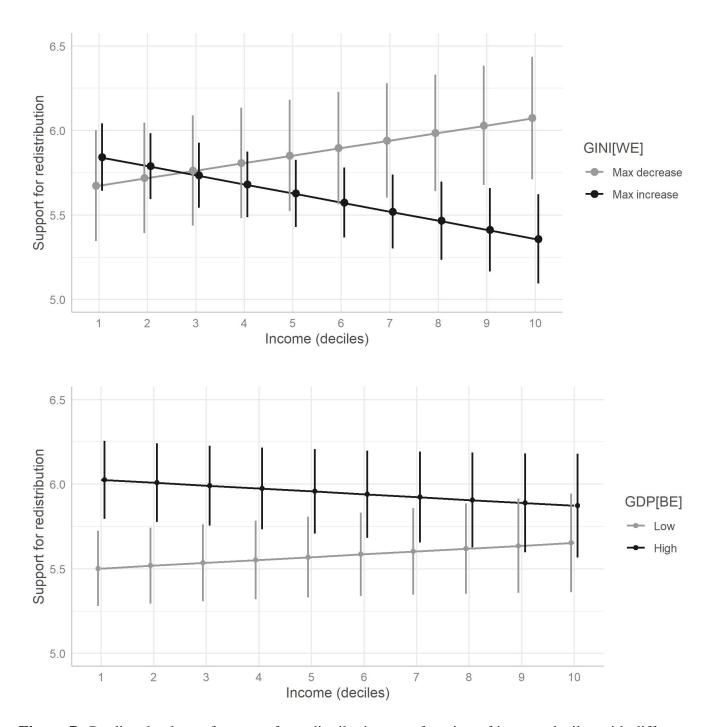
As we have seen so far, income does not show as significant an effect on the levels of preference for the redistribution of individuals as do inequality and, more strongly, the economic development of the countries of the region. Despite the above, it may be perfectly plausible that the economic stratum of people will 422 have an effect in certain scenarios of inequality or economic development. To test this hypothesis, Models 423 5 and 6 in Table 4 add interactions between levels to assess the possible moderating effect that the GINI 424 425 coefficient and GDP per capita may have on the relationship between people's income and their individual support for redistribution. 426

**Table 4.** Hybrid multilevel regression models of individual support for redistribution. Cross-level interactions.

	Model 5	Model 6
Individual-level variables	-0.115	0.022*
	(0.076)	(0.012)
Country-level variables GINI[BE]	-0.019	-0.017
GINIEE	-0.019 $(0.012)$	-0.017 $(0.012)$
GINI[WE]	[0.030]	$-0.010^{\circ}$
GDP[BE]	$(0.025) \\ 0.042^{***}$	$(0.023) \\ 0.045***$
	(0.011)	(0.011)
GDP[WE]	-0.001 $(0.044)$	-0.071 $(0.048)$
Cross-level interactions	(0.044)	(0.048)
Income x GINI[BE]	0.002	
Income x GINI[WE]	$(0.002) \\ -0.011^{***}$	
	(0.002)	
Income x GDP[BE]		$-0.003^*$ $(0.001)$
Income x GDP[WE]		0.020***
	6.022***	$\frac{(0.005)}{5.902^{***}}$
Constant	(0.608)	(0.601)
Individual-level controls Year fixed effects	$Yes \ Yes$	$Yes \\ Yes$
Variance components		
AIC BIC	$501003.39 \\ 501316.64$	$501008.10 \\ 501321.34$
Log Likelihood	-250469.70	-250472.05
N Level 1 N Level 2	$131787 \\ 97$	$131787 \\ 97$
N Level 3	17	17
Var: Level 2 (Int) Var: Level 2 Income	$0.06 \\ 0.00$	$0.06 \\ 0.00$
Cov: Level 2 (Int) Income	-0.00	-0.00
Var: Level 3 (Înt) Var: Level 3 Income	$0.02 \\ 0.00$	$0.02 \\ 0.00$
Cov: Level 3 (Int) Income	0.00	0.00
Var: Residual ***p < 0.05, *p <	0.1	2.48

As shown in Model 5, the levels of inequality between countries (GINI[BE]) do not express significant effects; however, the change in inequality over time (GINI[WE]) does moderate the effect of belonging to a richer income decile. In concrete terms, for each point of GINI coefficient that countries increase compared to their average for the period studied, the effect of income on redistribution becomes 0.011 points more negative, at 99% statistical confidence. In substantive terms, this implies that our Hypothesis H3 is rejected: in Latin America when inequality within the country increases, the differences between economic strata in terms of redistributive preferences are greater, causing the richer sectors to be associated with lower and lower levels of support for redistribution.

As with inequality, the level of economic development between countries (GDP[BE]) does not generate significant differences, but the change in economic development over time (GDP[WE]) does have implications for redistributive preferences by economic stratum. As Model 6 expresses, as a country's GDP per capita increases by one thousand dollars, the effect associated with belonging to a higher decile of income in redistribution is increased by 0.020 points, a significant change at the 99% confidence level.



**Figure 7.** Predicted values of support for redistribution as a function of income deciles with different inequality changes (GINI[WE]) and economic development levels (GDP[BE]). Dots show predicted values; bars represent 95% confidence intervals.

Contrary to Hypothesis H5, within the region, the rise in countries' economic development increases the differences between income strata in their demand for redistribution.

These effects can be seen more clearly in Figures 9 and 10 in the Annex.

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The results of the analysis show the capacity of inequality and economic development in countries to alter the relationship between people's income and their support for redistribution. However, the question remains of which economic strata are particularly susceptible to seeing their preferences modified in terms of the different scenarios of inequality and economic development within Latin America? Figure 7 responds to this question by drawing on the results of Models 5 and 6, expressing the predicted values according to redistribution for each income decile, in terms of different changes in inequality (GINI[WE]) and levels of economic development (GDP[BE]).<sup>10</sup>

As can be seen, inequality and economic development have implications for different economic positions in terms of redistributive preferences. As shown in Figure 7, inequality has implications only for the richest (10th) income decile as this is the only economic stratum that shows statistically significant differences between the scenarios of maximum decrease and maximum increase in inequality observed in the countries and periods studied. 11 Furthermore, the change in inequality can modify the slope of the predicted values of the redistributive agreement vs. income, this relationship being negative when inequality increases over time and vice versa.

On the contrary, economic development implies differences exclusively in the poorest segments. From decile 1 to decile 4 of income, there are statistically significant differences in the agreement with the redistribution predicted for scenarios of low and high GDP per capita<sup>12</sup> between countries (GDP[BE]), while in the remainder of the richer strata it is not possible to find differences.

#### 5 **DISCUSSION**

This study aimed to characterize redistributive preferences and their changes in an unequal and developing context, such as Latin America. In descriptive terms, the first thing that should be emphasized is the high degree of support for redistribution within the region. In Latin America, the population is mostly in 462 agreement with the reduction of inequalities via the state in all the countries studied. This is in alignment with other studies, which position Latin America—along with the Middle East—as the region with the highest levels of support for redistribution in the world (Dion and Birchfield 2010) However, this support for redistribution shows changes over time. Overall, there is evidence of a sustained decline in the levels of people's redistributive preferences, particularly from 2014 onwards. In this regard, the average support for redistribution tends to be more stable in countries such as Honduras, Chile, and Mexico and acquires greater variation in Paraguay and Panama.

This research has a series of implications for the study of redistributive preferences, considering their 470 limited development in the region and the absence of studies from a longitudinal perspective. Firstly, 471 the results question the hegemonic approaches to preferences for redistribution, based on self-interest 472 473 as well as their universalist pretensions. Unlike what has tended to be stated in other contexts, such as 474 Europe (Schmidt-Catran 2016) in Latin America it is possible to observe an absence of a relationship between people's income and their agreement with the application of public policies to reduce inequalities. 475 Within the region, the economic stratum to which individuals belong is not associated with changes in 476 redistributive preferences. As mentioned, controlling for other relevant individual and national factors, 477 belonging to a higher decile of family income is associated with a lower support for redistribution only in 478 Uruguay, while in the Dominican Republic it is the opposite, and in the remainder of the countries income 479

<sup>10</sup> Control variables adjusted to the mean or most frequent category at the individual level.

<sup>11</sup> Max decrease = -3.97; max increase = 4.93.

 $<sup>^{12}</sup>$  Low = -1.65; high = 13.98.

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is not associated with differences in individuals' support for redistribution. Contrary to what is commonly 480 481 postulated by classical economic theories, in the region people's redistributive preferences are not guided 482 by a direct cost-benefit relationship based on the objective economic position of individuals. This lack of relationship may be due to the low implications of the economic stratum in the configuration of preferences 483 484 or to the lack of knowledge that people have regarding their objective position as has been seen in other research in developed countries (Engelhardt and Wagener 2018) 485

The absence of a relationship between income and support for redistribution in the region allows us to confirm, through the use of cross-sectional data, the specificity of unequal and developing contexts in terms of attitudes toward inequality. Our findings are consistent with those previously presented by Dion and Birchfield (2010) who also revealed that in countries with low levels of economic development or high degrees of inequality, people's income does not satisfactorily explain their support for redistribution.

In agreement with other contemporary authors (Amable et al. 2019) this research questions the historical hegemony of theories based on self-interest for the understanding of redistributive preferences. As evidenced by all the estimates developed, people's educational level is inversely related to the demand 494 for redistribution: the higher the educational level, the greater the support for redistribution. Considering the lower exposure to risk faced by the more educated, in a logic of self-interest one would expect their support for redistribution to be lower, but the opposite is true. Likewise, people's working condition, which is fundamental in the relationship people might have with welfare policies, is not a determining element in their support for redistribution, as Berens (2015a) previously observed in Latin America.

Regarding contextual variables, the influence of the economic development of the country within the region stands out as higher levels are associated with higher levels of redistribution. This element also expresses differences with the research that has been done on the subject in other regions. Authors such as Schmidt-Catran (2016) explain how in Europe citizenship of richer countries is associated with lower levels of demand for redistribution. The positive effect of economic development on preferences for income redistribution in Latin America can be explained by its link to reductions in poverty, which the region has experienced in recent years (Birdsall, Lustig, and McLeod 2013; Dayton-Johnson 2015) and which Wietzke (2016) endorses as having an important role in supporting redistribution for developing countries. The particularity of the effect that economic development has specifically for the support for redistribution of the poorest segments, seen in the results of this study, reaffirms this explanation.

509 Unlike economic development, inequality manifests a less evident and even contrary influence. Our results show that in Latin America, higher levels of inequality in countries are associated with a decrease 510 in the degree of agreement with the redistribution of people. Also, we observe that the wealthy segments 511 are particularly susceptible to changes in the inequality of countries in terms of redistributive preferences, 512 as stated by the theory of "income-based altruism" (Dimick, Rueda, and Stegmueller 2016; Dimick, 513 Rueda, and Stegmueller 2018) but in a direction contrary to this as higher levels of inequality are capable 514 of triggering lower levels of support for redistribution in the higher-income group. Within the region, 515 inequality is even capable of decreasing the altruism of higher-income individuals. 516

These phenomena could be explained by the divergence, empirically proven in many contexts, between objective and subjective inequality (J C Castillo 2010; Sachweh and Olafsdottir 2010; Mijs 2019) More than changes in the actual levels of inequality, what could generate modifications in the support for redistribution would be the perceptions, beliefs, and judgments toward inequality (Janmaat 2013) that are predominant in each of the countries. According to Cramer and Kaufman (2011) the differences between income strata in terms of dissatisfaction with the existing inequality in Latin America are not enhanced when the levels

of objective inequality increase either. Given this, the highly unequal Latin American context can be understood as an interpretative framework that is strongly rooted in people's preferences, constant and independent of progress or setbacks in terms of distribution.

## 6 CONCLUSION

This research has evidenced various findings in the configuration and change of redistributive preferences in Latin America. Firstly, it has been found that the application of public policies to limit existing inequalities tends to be widely supported by the Latin American population, but that this majority agreement has tended to diminish in recent years. Likewise, it has been shown that people's income, a traditional determinant in the configuration of redistributive preferences, does not generate major differences in the demand for redistribution within the region. On the contrary, educational level and ideological factors, such as political ideology and confidence in the political system, are much more influential variables.

In addition, while most of the support for redistribution within Latin America is explained by individual factors, it is possible to detect implications for factors in the national context. In countries with greater economic development, people's redistributive preferences tend to be greater, particularly among the poorest sectors who identify with significantly higher levels of support for redistribution. In contrast, when countries increase their economic inequality over time, membership in wealthier deciles is associated with even lower levels of demand for redistribution. All in all evidence at individual and country level suggest a series of limitations of classical rational and self-interest theories to understand and explain the dynamics of redistributive preferences in Latin America.

Research on redistributive preferences and attitudes toward inequality has tended to be carried out mainly in developed countries while paradoxically regions such as Latin America are those with the greatest problems in terms of distribution. This empirical shortage entails a series of problems and limitations that all new research in the field must deal with and to which this study is not exempt. The main problem refers to the difficulty in obtaining quality longitudinal data series for developing regions. For this reason, this research only examines the effects of inequality and economic development, given that these are the determinants at the country level with the best quality information, knowing that there are so many others—government social spending, labor informality, immigration rates to name a few—that the literature has seen as capable of influencing attitudes toward welfare policies.

Another limitation of the study is the time gap that could exist between the structural conditions to which people are exposed and their attitudes in terms of distribution<sup>13</sup> as well as the problems associated with the operationalization of the household income variable<sup>14</sup>. However, the testing of the median-voter theorem and the self-interest approach, in its essence, assumes the use of this variable as the purest representation of the cost-benefit ratio that such approaches have tended to defend as a supposed determinant in the articulation of attitudes toward redistribution.

Finally, the longitudinal approach of this study sheds some light on aspects that are not perceptible with cross-sectional analysis. In this line, the downward trend of redistributive preferences shows a highly relevant research aspect to be explored further. That, in one of the most unequal regions on the planet, people year after year are less in support for redistribution is without a doubt a momentous phenomenon in

<sup>&</sup>lt;sup>13</sup> Along these lines, Schröder (2017) shows how levels of real inequality are capable of predicting a subsequent tolerance to income inequality, in a period of three to four years. Although in no case does it constitute a threat to the veracity and robustness of the results, in the future it should be an element to be considered for research designs on the matter.

<sup>&</sup>lt;sup>14</sup> For more information see Feres (1997)

- matters of public policy, political economy, and economic sociology. Contextual studies and studies of socio-historical trends are some of the varied research strategies that could be employed to respond to these types of questions—tremendously interesting considering the wide range of challenges that the region presents in terms of distribution.
- From the findings revealed by this research, several questions arise that require further study to be 564 correctly understood. First, consider not only "how much" but "who" redistributes. The high rates of 565 institutional corruption within the region, and the importance that confidence in the political system has 566 shown in explaining variations in the degrees of support for redistributive action, make this a necessary 567 approach to the problem in question, especially in Latin America, a region marked by the fragility of its 568 institutions (Portes and Smith 2010) and various internal differences in political, cultural, and economic 569 terms, factors that can impact on people's political perceptions (Stevens 2016) While trust in the state and 570 its institutions is established as one of the most influential determinants of how much people support the 571 redistribution of resources, the promotion of skepticism toward the system could become, paradoxically, a highly effective instrument by Latin American political elites. 573
- The importance of confidence in the political system reveals the strength of environmental perceptions in forming welfare policy judgments. For this reason, the interaction of theoretical approaches such as self-interest and ideological attitudes would be a particularly appropriate avenue to pursue to analyze with greater specificity the factors that make the relationship between the economic stratum of belonging and the sustained agreement toward redistribution more complex. In addition, the influence of cultural values and ideological positions is an element that could further sophisticate the relationship between economic stratum and agreement with the application of public policies to diminish inequalities.

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#### REFERENCES

- 586 Alesina, Alberto and Edward Glaeser (Mar. 2004) Fighting Poverty in the US and Europe. Oxford University
- 587 Press. ISBN: 978-0-19-926766-8. DOI: 10.1093/0199267669.001.0001.
- 588 Alesina, Alberto F and Paola Giuliano (2009) Preferences for redistribution (No. w14825).
- 589 Alm, James Robert and Benno Torgler (2006) "Culture Differences and Tax Morale in the United States and
- 590 in Europe". In: *Journal of Economic Psychology*. ISSN: 1556-5068. DOI: 10.2139/ssrn.562861.
- 591 Alvaredo, Facundo (2010) "The rich in Argentina over the Twentieth Century, 1932-2004". In: *Top incomes:*
- 592 A global perspective 2.
- 593 Amable, Bruno et al. (2019) "New approaches to political economy". In: *Socio-Economic Review* 17.2,
- 594 pp. 433–459.

- 595 Atkinson, Anthony, Thomas Piketty, and Emmanuel Saez (2011) "Top Incomes in the Long Run of History".
- 596 In: *Journal of Economic Literature* 49.1, pp. 3–71. ISSN: 0022-0515. DOI: 10.1257/jel.49.1.3.
- 597 Barth, Erling, Henning Finseraas, and Karl O Moene (2015) "Political Reinforcement: How Rising
- 598 Inequality Curbs Manifested Welfare Generosity". In: Source: American Journal of Political Science
- 599 59.3, pp. 565–577.
- 600 Berens, Sarah (Oct. 2015a) "Between Exclusion and Calculating Solidarity? Preferences for Private versus
- Public Welfare Provision and the Size of the Informal Sector". In: Socio-Economic Review 13.4, pp. 651–
- 602 678. ISSN: 1475-1461. DOI: 10.1093/ser/mwu039.
- 603 (2015b) "Preferences on Redistribution in Fragmented Labor Markets in Latin America and the
- 604 Caribbean". In: *Journal of Politics in Latin America* 7.3, pp. 117–156.
- 605 Bernasconi, Michele (Dec. 2006) "Redistributive Taxation in Democracies: Evidence on People's
- Satisfaction". In: European Journal of Political Economy 22.4, pp. 809–837. ISSN: 01762680. DOI:
- 607 10.1016/j.ejpoleco.2005.09.007.
- 608 Bértola, Luis et al. (2009) "Income distribution in the Latin American Southern Cone during the first
- globalization boom and beyond". In: International Journal of Comparative Sociology 50.5-6, pp. 452–
- 610 485. ISSN: 00207152. DOI: 10.1177/0020715209339883.
- 611 Birdsall, Nancy, Nora Lustig, and Darryl McLeod (2013) "Some Economics, Some Politics". In: Routledge
- 612 Handbook of Latin American Politics, p. 158.
- Bowles, Samuel and Herbert Gintis (2000) "Reciprocity, Self-Interest, and the Welfare State". In: Nordic
- 614 *Journal of Political Economy* 26.1, pp. 33–53.
- 615 Brady, David and Ryan Finnigan (2014) "Does Immigration Undermine Public Support for Social Policy?"
- 616 In: *American Sociological Review* 79.1, pp. 17–42. DOI: 10.1177/0003122413513022.
- 617 Brandt, Mark J. (2013) "Do the Disadvantaged Legitimize the Social System? A Large-Scale Test of the
- 618 Status-Legitimacy Hypothesis." In: *Journal of Personality and Social Psychology* 104.5, pp. 765–785.
- 619 ISSN: 1939-1315. DOI: 10.1037/a0031751.
- 620 Castillo, Antonio M Jaime and José L Sáez Lozano (2010) "Redistributive Conflicts and Preferences for
- 621 Tax Schemes in Europe". España.
- 622 Castillo, Juan Carlos (2010) The Legitimacy of Economic Inequality: An Empirical Approach to the Case
- 623 of Chile. Boca R.: Dissertation.com.
- 624 Castillo, Juan Carlos, Ignacio Madero-Cabib, and Alan Salamovich (2013) "Clivajes Partidarios y Cambios
- En Preferencias Distributivas En Chile". In: *Revista de Ciencia Política* 33.2, pp. 469–488.
- 626 Castillo, Juan Carlos, Diego Palacios, et al. (2015) "Inequality, Distributive Justice and Political
- Participation: An Analysis of the Case of Chile". en. In: Bulletin of Latin American Research 34.4,
- 628 pp. 486–502. ISSN: 1470-9856. DOI: 10.1111/blar.12369. (Visited on 02/02/2019)
- 629 CEPAL (2016) Panorama Social de América Latina 2015. Santiago de Chile: CEPAL ISBN: 978-92-1-
- 630 121924-1.
- 631 Cichocka, Aleksandra et al. (2017) "What Inverted U Can Do for Your Country: A Curvilinear Relationship
- Between Confidence in the Social System and Political Engagement What Inverted U Can Do for Your
- 633 Country: A Curvilinear Relationship Between Confidence in the Social System and Political". In: *Journal*
- of Personality and Social Psychology. DOI: 10.1037/pspp0000168.
- 635 Cramer, Brian D. and Robert R. Kaufman (Sept. 2011) "Views of Economic Inequality in Latin
- 636 America". In: Comparative Political Studies 44.9, pp. 1206–1237. ISSN: 0010-4140. DOI: 10.1177/
- **637** 0010414010392171.

- 638 Dayton-Johnson, Jeff (2015) Latin America's Emerging Middle Classes. Ed. by Jeff Dayton-
- 639 Johnson. London: Palgrave Macmillan UK pp. 1–31. ISBN: 978-1-349-45786-1. DOI: 10.1057/
- 9781137320797. URL: http://link.springer.com/10.1057/9781137320797.
- 641 Dhami, Sanjit and Ali Al-Nowaihi (2010) "Redistributive Policies with Heterogeneous Social Preferences
- of Voters". In: *European Economic Review* 54.6, pp. 743–759. ISSN: 00142921. DOI: 10.1016/j.
- 643 euroecorev.2010.01.001.
- 644 Dimick, Matthew, David Rueda, and Daniel Stegmueller (2016) "The altruistic rich? Inequality and other-
- regarding preferences for redistribution". In: *Quarterly Journal of Political Science* 11.4, pp. 385–439.
- 646 ISSN: 21645760. DOI: 10.1561/100.00015099.
- 647 (2018) "Models of Other-Regarding Preferences, Inequality, and Redistribution". In: Annual Review
- 648 of Political Science 21.1, pp. 441-460. ISSN: 1094-2939. DOI: 10.1146/annurev-polisci-
- **649** 091515-030034.
- 650 Dion, Michelle L. and Vicki Birchfield (June 2010) "Economic Development, Income Inequality, and
- Preferences for Redistribution". In: *International Studies Quarterly* 54.2, pp. 315–334. ISSN: 00208833.
- 652 DOI: 10.1111/j.1468-2478.2010.00589.x.
- 653 Edlund, Jonas (May 1999) "Trust in Government and Welfare Regimes: Attitudes to Redistribution and
- 654 Financial Cheating in the USA and Norway". In: European Journal of Political Research 35.3, pp. 341–
- 655 370. ISSN: 0304-4130. DOI: 10.1111/1475-6765.00452.
- 656 Eger, Maureen A. and Nate Breznau (2017) "Immigration and the welfare state: A cross-regional analysis
- of European welfare attitudes". In: *International Journal of Comparative Sociology* 58.5, pp. 440–463.
- 658 ISSN: 17452554. DOI: 10.1177/0020715217690796.
- 659 Engelhardt, Carina and Andreas Wagener (2018) "What do Germans think and know about income
- inequality? A survey experiment". In: *Socio-Economic Review* 16.4, pp. 743–767.
- 661 Etzioni, Amitai (1988) "The moral dimension: Toward a new economics." In.
- 662 Fairbrother, Malcolm (2014) "Two Multilevel Modeling Techniques for Analyzing Comparative
- 663 Longitudinal Survey Datasets". In: Political Science Research and Methods The European Political
- 664 Science Association 2.1, pp. 119–140. DOI: 10.1017/psrm.2013.24.
- 665 Feldman, Stanley and John Zaller (1992) "The Political Culture of Ambivalence: Ideological Responses to
- the Welfare State". In: Source: American Journal of Political Science 36.1, pp. 268–307.
- 667 Feres, Juan Carlos (1997) "Notas Sobre La Medición de La Pobreza Según El Método Del Ingreso". In:
- 668 Revista de la CEPAL 61.
- 669 Finseraas, Henning (Mar. 2009) "Income Inequality and Demand for Redistribution: A Multilevel Analysis
- of European Public Opinion". In: Scandinavian Political Studies 32.1, pp. 94–119. ISSN: 00806757. DOI:
- 671 10.1111/j.1467-9477.2008.00211.x.
- 672 Forsé, Michel and Maxime Parodi (2007) "Perception Des Inégalités Économiques et Sentiment de Justice
- 673 Sociale". In: *Revue de l'OFCE* 3, pp. 483–540.
- 674 Fowler, James H and Cindy D Kam (2007) "Beyond the Self: Social Identity, Altruism, and Political
- Participation". In: *Journal of Politics* 69.3, pp. 813–827. ISSN: 00223816 (ISSN) DOI: 10.1111/j.
- 676 1468-2508.2007.00577.x.
- 677 Franko, William, Caroline J. Tolbert, and Christopher Witko (Dec. 2013) "Inequality, Self-Interest, and
- Public Support for "Robin Hood" Tax Policies". In: Political Research Quarterly 66.4, pp. 923–937.
- 679 ISSN: 1065-9129. DOI: 10.1177/1065912913485441.
- 680 Garay, Candelaria (2010) "Including Outsiders: Social Policy Expansion in Latin America". PhD Thesis.
- 681 UC Berkeley Electronic Theses and Dissertations.

- 682 Gelissen, J. (2000) "Popular Support for Institutionalised Solidarity: A Comparison between European
- Welfare States". In: *International Journal of Social Welfare* 9.4, pp. 285–300. ISSN: 13696866. DOI:
- **684** 10.1111/1468-2397.00140.
- 685 Gijsberts, Mérove (2002) "The Legitimation of Income Inequality in State-Socialist and Market Societies".
- In: Acta Sociologica 45.4, pp. 269–285. ISSN: 0001-6993. DOI: 10.1177/000169930204500402.
- 687 Hoffman, Kelly and Miguel Angel Centeno (2003) "The Lopsided Continent: Inequality in Latin America".
- 688 In: Annu. Rev. Sociol 29, pp. 363–90. DOI: 10.1146/annurev.soc.29.010202.100141.
- 689 Huber, Evelyn and John D. Stephens (2001) Development and Crisis of the Welfare State: Parties and
- 690 Policies in Global Markets. Chicago: University of Chicago Press.
- Inglehart, Ronald (1977) "Long Term Trends in Mass Support for European Unification". In: *Government and opposition* 12.2, pp. 150–177.
- 693 (2008) "Changing Values among Western Publics from 1970 to 2006". In: *West European Politics* 694 31.1-2, pp. 130–146. ISSN: 01402382. DOI: 10.1080/01402380701834747.
- 695 Isaksson, Ann-Sofie and Annika Lindskog (2009) "Preferences for Redistribution—A Country Comparison
- of Fairness Judgements". In: Journal of Economic Behavior & Organization 72.3, pp. 884–902. ISSN:
- 697 01672681. DOI: 10.1016/j.jebo.2009.08.006.
- 698 Iversen, Torben (2005) Capitalism, Democracy, and Welfare. New York: Cambridge University Press.
- 699 Jaeger, Mads Meier (2005) "Welfare State Regimes and Attitudes towards Redistribution in 15 Western
- 700 European Countries: Is It Really True That Institutional Regimes Do Not Matter?"
- 701 (2006) "Welfare Regimes and Attitudes Towards Redistribution: The". In: European Sociological
- 702 Review 22.2, pp. 157-170. DOI: 10.1093/esr/jci049.
- 703 Janmaat, Jan Germen (2013) "Subjective inequality: a review of international comparative studies on
- people's views about inequality". In: European Journal of Sociology/Archives Européennes de Sociologie
- 705 54.3, pp. 357–389.
- 706 Janmaat, Jan Germen and Robert Braun (2009) "Diversity and postmaterialism as rival perspectives in
- 707 accounting for social solidarity: Evidence from international surveys". In: International Journal of
- 708 *Comparative Sociology* 50.1, pp. 39–68. ISSN: 17452554. DOI: 10.1177/0020715208100969.
- 709 Keller, Tamas, Marton Medgyesi, and István György Tóth (2010) Analysing the Link between Measured
- 710 and Perceived Income Inequality in European Countries. Tech. rep. Research note.
- 711 Kenworthy, Lane and L. McCall (Dec. 2007) "Inequality, Public Opinion and Redistribution". In: Socio-
- 712 *Economic Review* 6.1, pp. 35–68. ISSN: 1475-1461. DOI: 10.1093/ser/mwm006.
- 713 Kenworthy, Lane and Jonas Pontusson (2005) "Rising Inequality and the Politics of Redistribution in
- 714 Affluent Countries". In: *Source: Perspectives on Politics* 3.3, pp. 449–471.
- 715 Kumlin, Staffan (2004) The Personal and the Political. New York: Palgrave Macmillan US ISBN: 978-1-
- 716 349-52817-2. DOI: 10.1057/9781403980274.
- 717 Kuznets, Simon (1955) "Economic Growth and Income Inequality". In: The American Economic Review
- 718 45.1.
- 719 Kwon, Ronald and Michaela Curran (2016) "Immigration and support for redistributive social policy: Does
- 720 multiculturalism matter?" In: *International Journal of Comparative Sociology* 57.6, pp. 375–400. ISSN:
- **721** 17452554. DOI: 10.1177/0020715216685767.
- 722 Lübker, Malte (2004) "Globalization and Perceptions of Social Inequality". In: Malte International Labour
- 723 Review 143.12.
- -(2007) "Inequality and the demand for redistribution: are the assumptions of the new growth theory
- valid?" In: *Socio-Economic Review* 5.1, pp. 117–148.

- 726 Lupu, Noam and Jonas Pontusson (2011) "The Structure of Inequality and the Politics of Redistribution".
- 727 In: *American Political Science Review* 105.2. DOI: 10.1017/S0003055411000128.
- 728 Lustig, Nora, Luis F Lopez-Calva, and Eduardo Ortiz-Juarez (2013) "Declining Inequality in Latin America
- in the 2000s: The Cases of Argentina, Brazil, and Mexico". In: World Development 44, pp. 129–141. DOI:
- 730 10.1016/j.worlddev.2012.09.013.
- 731 Luttig, Matthew (Sept. 2013) "The Structure of Inequality and Americans' Attitudes toward Redistribution".
- 732 In: *Public Opinion Quarterly* 77.3, pp. 811–821. ISSN: 0033-362X DOI: 10.1093/poq/nft025.
- 733 Mann, Michael and Dylan Riley (2007) "Explaining Macro-Regional Trends in Global Income Inequalities,
- 734 1950–2000". In: *Socio-Economic Review* 5, pp. 81–115. DOI: 10.1093/ser/mwl017.
- 735 Mares, Isabela and Matthew E Carnes (2009) "Social Policy in Developing Countries". In: Annu. Rev. Polit.
- 736 Sci 12, pp. 93-113. DOI: 10.1146/annurev.polisci.12.071207.093504.
- 737 Martinez Franzoni, Juliana (June 2008) "Welfare Regimes in Latin America: Capturing Constellations
- of Markets, Families, and Policies". In: Latin American Politics and Society 50.2, pp. 67–100. ISSN:
- 739 1531426X DOI: 10.1111/j.1548-2456.2008.00013.x.
- 740 McCall, Leslie (2013) "The Undeserving Rich: American Beliefs about Inequality, Opportunity, and
- Redistribution". In: Cambridge University Press July, p. 300. DOI: 10.1017/CB09781139225687.
- 742 Meltzer, Allan H and Scott F Richard (1981) "A Rational Theory of the Size of Government". In: Source
- *Journal of Political Economy Journal of Political Economy* 89155.5, pp. 914–927.
- 744 Mijs, Jonathan JB (2019) "The paradox of inequality: income inequality and belief in meritocracy go hand
- 745 in hand". In: Socio-Economic Review.
- 746 Portes, Alejandro and Lori D Smith (2010) "Institutions and national development in Latin America: a
- 747 comparative study". In: *Socio-Economic Review* 8.4, pp. 585–621.
- 748 Reenock, Christopher, Michael Bernhard, and David Sobek (2007) "Regressive Socioeconomic Distribution
- and Democratic Survival". In: Source: International Studies Quarterly International Studies Quarterly
- 750 51.51, pp. 677–699.
- 751 Reeskens, Tim and Wim van Oorschot (2012) "Disentangling the 'New Liberal Dilemma': On the relation
- between general welfare redistribution preferences and welfare chauvinism". In: *International Journal of*
- 753 *Comparative Sociology* 53.2, pp. 120–139. ISSN: 00207152. DOI: 10.1177/0020715212451987.
- 754 Rehm, Philipp (Apr. 2011) "Social Policy by Popular Demand". In: World Politics 63.02, pp. 271–299.
- 755 ISSN: 0043-8871. DOI: 10.1017/S0043887111000037.
- 756 Rehm, Philipp, Jacob S. Hacker, and Mark Schlesinger (May 2012) "Insecure Alliances: Risk, Inequality,
- and Support for the Welfare State". In: *American Political Science Review* 106.02, pp. 386–406. ISSN:
- 758 0003-0554. DOI: 10.1017/S0003055412000147.
- 759 Romer, T. (1975) "Individual Welfare, Majority Voting, and the Properties of a Linear Income Tax." In:
- 760 *Journal of Public Economics* 4.2, pp. 163–185.
- 761 Roosma, Femke, Wim van Oorschot, and John Gelissen (2014) "The weakest link in welfare state
- 762 legitimacy: European perceptions of moral and administrative failure in the targeting of social benefits".
- In: International Journal of Comparative Sociology 55.6, pp. 489–508. ISSN: 17452554. DOI: 10.1177/
- **764** 0020715214565932.
- 765 Rudra, Nita (2002) "Globalization and the Decline of the Welfare State in Less-Developed
- 766 Countries". In: *International Organization* 56.2, pp. 411–445. ISSN: 15315088. DOI: 10.1162/
- 767 002081802320005522.
- 768 Rueda, David (2008) Social Democracy Inside Out: Partisanship and LaborMarket Policy in Advanced
- 769 *Industrialized Democracies*. New York: Oxford University Press.

- 770 Rueda, David and Daniel Stegmueller (2019) Who Wants What?: Redistribution Preferences in Comparative
- 771 *Perspective*. Cambridge Studies in Comparative Politics. Cambridge University Press. DOI: 10.1017/
- **772** 9781108681339.
- 773 Sachweh, Patrick and Sigrun Olafsdottir (2010) "The Welfare State and Equality? Stratification Realities
- and Aspirations in Three Welfare Regimes". In: *European Sociological Review* 28.2, pp. 149–168.
- 775 Scheve, Kenneth and David Stasavage (2006) "Religion and Preferences for Social Insurance \*". In:
- 776 Quarterly Journal of Political Science 1, pp. 255–286. DOI: 10.1561/100.00005052\_supp.
- 777 zip>.
- 778 Schmidt-Catran, Alexander W. (Jan. 2016) "Economic Inequality and Public Demand for Redistribution:
- 779 Combining Cross-Sectional and Longitudinal Evidence". In: *Socio-Economic Review* 14.1, pp. 119–140.
- 780 ISSN: 1475-1461. DOI: 10.1093/ser/mwu030.
- 781 Schmidt-Catran, Alexander W. and Malcolm Fairbrother (2016) "The Random Effects in Multilevel Models:
- 782 Getting Them Wrong and Getting Them Right". In: *European Sociological Review* 32.1, pp. 23–38. ISSN:
- 783 14682672. DOI: 10.1093/esr/jcv090.
- 784 Schröder, Martin (2017) "Is Income Inequality Related to Tolerance for Inequality?" In: Social Justice
- 785 Research 30.1, pp. 23–47. ISSN: 08857466. DOI: 10.1007/s11211-016-0276-8.
- 786 Stevens, Alex (2016) "Configurations of corruption: A cross-national qualitative comparative analysis of
- levels of perceived corruption". In: *International Journal of Comparative Sociology* 57.4, pp. 183–206.
- 788 ISSN: 17452554. DOI: 10.1177/0020715216665663.
- 789 Szirmai, Adam (1986) "Inequality Observed". In: A Study of Attitudes Towards Income Inequality.
- 790 Aversbury.
- 791 Wegener, Bernd and Stefan Liebig (1995) "Dominant Ideologies and the Variation of Distributive Justice
- Norms: A Comparison of East and West Germany, and the United States". In: Social justice and political
- 793 *change: Public opinion in capitalist and post-communist states* 3, p. 239.
- 794 (June 2000) "Is the "Inner Wall" Here to Stay? Justice Ideologies in Unified Germany". en. In: Social
- 795 *Justice Research* 13.2, pp. 177–197. ISSN: 1573-6725. DOI: 10.1023/A:1007549923948. (Visited
- 796 on 02/02/2019)
- 797 Wietzke, Frank-Borge (2016) "Kicking away the ladder? Poverty reduction and public support for
- redistribution in emerging economies". In: *Socio-Economic Review* 14.3, pp. 419–442.
- 799 Williamson, Jeffrey G (2015) "Latin American Inequality: Colonial, Origins, Commodity Booms, or a
- 800 Missed 20th Century Leveling?"