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Population Aging and the Rise of Populist Attitudes in Europe

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Abstract

In the light of the rise in populism in Europe, this paper empirically explores the interplay between population aging and populist attitudes. We test this hypothesis by conducting a multilevel analysis of individuals living in European countries over the period 2002-2019. Our measure of population aging is the country's old-age dependency ratio, thus we focus on population or societal aging as opposed to individual aging. Populist attitudes are derived from individual-level data that provide information about voting for populist parties, political trust and attitudes towards immigration available in nine consecutive rounds of the European Social Survey. Our findings suggest that societal aging is associated with a fall in trust in national and European institutions and a rise in attitudes against immigrants. There are two potential mechanisms driving our results. First, a shift in the median voter age. Older people tend to be more conservative, voting more for right-wing populist parties and this is reflected on the median vote and attitude as well. The second mechanism appeals to the impact that the presence of the "old" group in the society has on the society and the economy as a whole, it is thus more of an "externality" effect. Living in an aging society, young people are aware of the fact that they have to cater for a large share of old people and this gives rise to different incentives and attitudes compared to individuals living in "young" societies.

Keywords: Population Aging, Populist Vote, Immigrant Attitudes, Trust JEL Codes: D72, J10, P16, Z13

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"The best argument against democracy is a five-minute conversation with the average voter". — Winston Churchill

1 Introduction

Recently, European countries have seen an unprecedented rise of populist parties which successfully entered the European parliament. As partly the result of the rise in populist attitudes, the European Union faced the exit of United Kingdom, known as "Brexit". Other European countries elected governments that reinforce the rise of anti-immigrant and even anti-EU attitudes.

Yet, the rise in populism is just one of the problems that Europe has to deal with. Another pressing concern is population aging, i.e., the fact that the proportion of people of working age is shrinking while the relative number of those retired is expanding. This phenomenon already puts pressure on public pension schemes, transfers the burden to the diminishing working age population and shifts government spending to less productive categories.

The profile of the supporters of Brexit, hints to the fact that the two phenomena are linked. In the light of the above we view the link between the two phenomena as evident and unavoidable, i.e., the interplay between population aging and populist attitudes. We already know that individual aging is associated with lower levels of trust and the adoption of more conservative attitudes. What we explore now however, is what happens at the societal level when the aging individuals become a dominating group. Where does this lead societies to? Does the median voter, who unavoidably becomes older and older drive the rise for populist attitudes? Does the rest of the society, observing this increasing share of old people, behave in a different way when it comes to their economic decisions? Individuals raised in smaller families know that they need to exert more effort and time to cater for their parents, as they know that the same holds at the societal level, i.e. that fewer workers have to cater for more older people.

Our study suggests that the answer to the above questions is positive. Our findings illustrate that in countries with a high OADR (number of people above the age of 65 "the old individuals" per 100 people of the working population aged 15-64.), individuals: i) are more likely not to participate in elections; but ii) when they do so, they are more likely to vote for a populist party. A 1 unit increase in the old dependency ratio (OADR) is associated with a decline of 0.04 percentage point in the probability to vote in last national elections and with a 0.13 percentage point rise in the probability of voting for a populist party. Concerning political trust, individuals who live in countries with a high OADR tend to mistrust parties, politicians, parliament and EU institutions. Concerning anti-immigrant attitudes, higher societal aging is associated with a rise in favoring anti-immigrant beliefs such as that immigrants make host countries worse, undermine the host country's culture, are bad for the host country's economy and last, immigrants take out more than they put in the host country's economy. More concretely, a 10% increase in OADR is associated with a 12% increase in voting participation and a 36% increase in voting for a populist party. Additionally, I find that in countries with a high OADR, individuals are more conservative, voting for right-wing populist parties and being more right-wing oriented. As a result, this conservatism leads individuals to be more prone to vote for populist parties in Europe.

Our analysis is motivated by Becker et al. (2017), who discussed among other determinants the role that individual age played on Brexit, and we seek to shed light to the dimension of *population aging* on the rise of populist attitudes in Europe, i.e., the impact of the old-age dependency ratio (OADR) on voting behavior e.g., participation in elections, voting for populist parties, right-wing and left-wing populist parties, political trust and attitudes towards immigrants. Analytically, we

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use data from the nine consecutive rounds of the European Social Survey (ESS) from 2002 to 2019 and we associate each individual to the aggregate old-age dependency ratio of the country where he/she is born and lives in (on top of accounting for his/her age). As such, we capture not only the individual age effect but also the societal aging effect, as an aggregate phenomenon, that is shaping modern day societies.

The OADR variable is derived from the World Bank Development Indicators (WDI). Beyond our main explanatory variable we include additional individual controls that have been argued to affect voting behavior (e.g., the education status, gender, age, marital status, race, life satisfaction and the individual's feeling about his/her health as in Becker et al. (2017)). We also control for economic factors that also drive populist attitudes (e.g., the economic insecurity of individuals through the individuals' income source, whether individuals experienced income difficulties and whether individuals are working as low-skill workers in the manufacturing) according to Guiso et al. (2020). Last, we control for a wide range of country characteristics that capture the overall societal dynamics beyond population aging, such as GDP per capita in PPP, fertility rate, mortality rate, life expectancy and unemployment, the share of GDP which is related to country's imports and exports and the level of current health expenditure expressed as a percentage of GDP. Last, we use country and ESS round fixed effects that account for much of the unobservable heterogeneity.

Our findings remain significant and robust to various specifications such as the use of an alternative measure of the old-age dependency ratio (OADR) (i.e., we define now the new OADR as the number of people above the age of 65 as a fraction of the total population); the restriction of the sample to populist countries (i.e., we keep only countries where individuals voted for at least one populist party as in Guiso et al. (2020)) in order to see whether our results are driven mainly by the populist countries; to individuals holding the citizenship of the country of residence; and

last, we replicate our benchmark specification to EU countries as the rise of populist attitudes is more prominent to countries participate in EU.

To account for even more unobservables (though this restricts the variation we exploit in our analysis), we conduct a regional analysis, in Nuts 1 European regions. This allows for the inclusion of a large number of unobservables and helps to eliminate unobserved heterogeneity at the regional level. To anticipate the findings, in all our robustness exercises, the aging of the European population measured by the rise in the OADR, yields a positive effect on populist related outcomes, and this effect is even stronger in terms of magnitude.

In the discussion part, in order to investigate whether the effect of societal population aging on populist behavior is driven by a specific age group, we restrict our sample to old individuals who are above 65 years of age and to young individuals below the age of 64. Interestingly, we find that both the young and the old age groups contribute equally to the effect of population aging on individuals' populist attitudes.

The structure of the paper is organized as follows. Section 2 discusses the existing literature and Section 3 introduces the data and the empirical strategy. Section 4 presents the benchmark results. Section 5 conducts robustness exercises. Section 6 lays out the discussion whereas Section 7 concludes.

2 Related Literature

In recent years, we have observed a rise in the votes of populist parties which successfully entered the European parliament and created a new equilibrium for the society and the EU as a whole. Manifestations of the upsurge in populism include the British vote in the June 2016 referendum in favor of a "Brexit" from the European Union; the December 2016 vote in the Italian referendum to reject constitutional reform and, with it, to effectively oust a solidly pro-EU government; the 2015 election of a populist authoritarian government in Poland that interferes with the judicial system and the educational curriculum in public schools; the consolidation of power by the government of Viktor Orban in Hungary, a government that has weakened the courts and the press while attacking immigrants, Jews, homosexuals, and European bureaucrats; the unprecedented popularity in France of Marine Le Pen's anti-immigrant National Front party in the run-up to the country's presidential election of 2017 (Gusterson, 2017) and also the high percentage of Marine Le Pen's party in the presidential election of April 2022.

The determinants of populism have been widely studied in the related literature. As suggested in Algan et al. (2017) many Europeans appear dissatisfied with local and EU politicians and institutions. Likewise, Dustmann et al. (2017) report that after the crisis mistrust of European institutions, largely explained by the poorer economic conditions of the Euro-area countries, is correlated with voting for populist parties. Acemoglu et al. (2013), Rodrik (2018) and Di Tella and Rotemberg (2018), as well as Guiso et al. (2020) provide a discussion on the recent rise of populist parties in the light of economic theory. Guiso et al. (2020) and Guiso et al. (2021) document a link between individual-level economic insecurity and populist attitudes. The hint to economic insecurity and the exposure to a more globalized environment in their workplace as the main determinants behind it. Likewise, Guiso et al. (2019) find a greater success of populist parties in response to the financial crises and globalization shocks in Eurozone (EZ) countries. This is consistent with voters' frustration for the greater inability of the EZ governments to react to difficult-to-manage globalization shocks and financial crises. It is also argued that a slow, staged process of political unification can expose the European Union to a risk of political backlash if hard to manage shocks hit the economies during the integration process. In a recent comprehensive overview, Guriev and Papaioannou (2020) analysed the political economy of populism. In addition, Boeri et al. (2023) argue that improving individuals' knowledge about the functioning of pay-asyou-go pension systems and demographic trends can change natives' attitudes towards migrants. They also find that participants who do not support populist and anti-immigrant parties display more positive attitudes towards migrants when knowledge of pension systems and demographic trends is increasing.

A strand of the existing literature primarily focuses on the role of individual aging and other demographic factors on populist vote. Becker et al. (2017) analyze the Brexit vote shares across UK voting areas, using a wide range of explanatory variables. They show that the Leave vote shares are systematically correlated with older age, lower educational attainment, unemployment, or employment in certain industries such as manufacturing, as well as with a lack of quality of public service provision. Ferree et al. (2014) provide an extensive review of academic works which link voting patterns to demographic, economic and political features. Voters' behavior has also been shown to be strongly associated with individual scepticism towards institutions (e.g. Euroscepticism) or intolerance against foreigners (Whitaker and Lynch (2011); Clarke and Whittaker (2016) and Arzheimer (2009)). Additional studies claim that ethnic minorities may engage in "ethnic" or "policy" voting depending on the issue they are called to vote upon (Bratton and Kimenyi (2008) and Tolbert and Hero (1996)). Polarization has also been related to immigration (Barone et al., 2014) as well as trade integration (Dippel et al. (2015) and Burgoon (2013)).

Last, anecdotal evidence coming from the media support the hypothesis that older people are more prone to vote for populist parties and they do not trust the political institutions is abundant. This had already become evident by the British vote in the June 2016 referendum in favor of a "Brexit" from the European Union. More specifically, taking into account the polls, just over 70% of 18 to 24-year-old voted in the referendum in favor of Remain in the EU and just under 30% backing Leave. In contrast, only 40% of those aged 65 and over supported Remain, while 60% placed their cross against Leave (Helm, 2016). A total of 82% of 18 to 24-year-old with a voting preference say they would vote Remain in a second referendum, an average of polls conducted in the past three months suggests, while only 18% of this age group say they would vote Leave. In contrast, two-thirds of those aged 65 and over would back Leave, while only one-third would favour Remain (Curtice, 2018).

Overall, our paper contributes to uncovering an aggregate demographic factor in the rise of populism, i.e., that of population aging. The literature has so far extensively discussed how people behave as they grow older themselves. What needs to be further understood is also how societies behave as they grow older. Many old people together constitute an old society. This fact not only implies that each of those people is likely to manifest populist attitudes, but also gives rise to aggregate dynamics reflected in e.g., the voting behavior of the median voter; the tactics of the parties that appeal to collective memory and past shocks offering a nostalgic and sometimes reinvented vision of the past; the rise of scaremongering in public discourse that is particularly appealing in older audiences.

3 Data and Empirical Strategy

$3.1 \quad Data$

To explore the effect of aging population on populist attitudes, we employ data from the nine consecutive rounds of the European Social Survey (2002-2019), a repeated cross-section survey that quantifies the attitudes, beliefs and behavioral patterns of citizens in 34 European countries. The sample comprises individuals from Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Germany, Finland, France, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kosovo, Lithuania, Luxembourg, the Netherlands, Norway, Poland, Portugal, Russia, Sweden, Switzerland, Slovenia, Slovakia, Spain, Switzerland, Turkey, United Kingdom and Ukraine. The ESS contains a rich set of questions that capture populist attitudes as well as personal characteristics such as country and year of birth, gender, age, race, individual's income, education, political orientation, employment, marital and health status, etc.

In our analysis we employ three proxies for populist attitudes as in Guiso et al. (2020) and Guiso et al. (2021). These are i) voting behavior; ii) aspects of trust; and iii) immigrant-related attitudes. In the benchmark specification, we rely on voting behavior. The ESS provides us with information on whether people participated in the last national elections and which party they voted for, thus we construct a dummy that takes the value 1 if the individual voted for a populist party and 0 otherwise. Similarly, expanding our analysis we explore also, the effect of an aging population on political trust and attitudes towards immigrants. Concerning trust, we use variables for trust in i) parties; ii) country's parliament; iii) politicians; and iv) European parliament, all measured on a scale between 0 (no trust) and 10 (full trust). Last, we capture attitudes e.g., i) whether people believe that immigrants make host country worse or not, ii) immigrants undermine or enrich the country's culture, iii) immigrants are bad or good for the country's economy and finally, v) immigrants take out more than they put in host country's economy. We use the political trust and the anti-immigrant attitudes as additional proxies for populism following Guiso et al. (2020) and Guiso et al. (2021) as the loss of confidence in political institutions and the existence of anti-immigrant attitudes can lead voters to vote for populist parties in national elections.

Our key explanatory variable is the country's old-age dependency ratio (OADR) which we interpret as the proxy for population aging. We extract data from the World Bank Development Indicators (WDI) for annual estimates of old-age dependency ratio since 1960. The OADR states the number of people above the age of 65 "the old individuals" per 100 people of the working population aged 15-64. Thus, we aggregate the WDI data over 2-year intervals in order to match with the ESS.

Beyond our main explanatory variable our analysis controls for a wide range of individual characteristics coming from the ESS following Becker et al. (2017) that have been argued to affect voting behavior i.e., the education level, gender, age, marital status, race, life satisfaction and the individual's feeling about his/her health. Individuals who are more educated and satisfied with their life and health status are less prone to vote for populist parties. Moreover, it is argued that race plays an important role for voting for populist parties as the typical voter of far-right wing parties is white and he/she belongs to the middle class (Ashcroft and Bevir (2016)). Marital status or living with children may also impact an individual's voting behavior. Last, we also control for gender and the individual's age; older individuals are shown to display more antiimmigrant attitudes and a lower political trust. Additionally, we control for economic factors that drive individuals to vote for populist parties such as the economic insecurity of individuals through i) which is the main source of income in individuals' households, ii) whether the individual has experienced any income difficulties, e.g., whether the voter lives comfortably with the present income or find it difficult and last, iii) whether the voter is exposed to globalization working as a low-skill worker in the manufacturing (Guiso et al. (2019); Guiso et al. (2020)). We control additionally for individual's economic insecurity because it either may be produced by the economic crisis that hit countries or may also be produced by labor market competition due to immigration. Thus, as people age experience more and more macroeconomic shocks which leads to a decline on the political trust and more hostile attitudes.

The remaining controls that capture the aggregate dynamics beyond population aging are coming from the World Development Indicators (WDI) and we include country characteristics such as GDP per capita in PPP, fertility and mortality rates, life expectancy and unemployment. We also control for the share of GDP which is related to the country's imports and exports and the level of current health expenditure expressed as a percentage of GDP (Becker et al., 2017). All these variables are considered as the determinants of trust and attitudes towards immigrants that can capture the stage of development, other demographic factors as well as socioeconomic determinants. Table 1 documents the descriptive statistics of all the variables explained above and used in our analysis.

[INSERT TABLE 1 HERE]

In Figure A.1 we illustrate the evolution of population aging measured by the old-age dependency ratio in European countries as well as the share of populist parties' votes in European countries. More specifically, it can be seen that in Europe the old-age dependency ratio is rising during the years as many European countries have been hit by macroeconomic shocks which are related with lower fertility rates (Kana et al. (2017) and Reynaud and Miccoli (2019)) as individuals remain unemployed and experience severe economic difficulties (Comolli and Vignoli (2021)). However, Luxembourg has currently the lowest old-age dependency ratio in the EU as it has benefitted from strong net migration flows in recent years.

[INSERT FIGURE A.1 HERE]

Figure A.2 illustrates the vote shares of populist parties for the European countries where individuals voted at least one populist party. Evidently, in the ESS there are countries e.g., Luxembourg, Portugal where there are not reported individuals who have voted for a populist party and other countries such as Ukraine for which we do not have relevant information from the ESS. Figure A.3-A.6 illustrates the degree of trust in political institutions (e.g., trust in political parties, parliament and politicians and EU parliament) for each European country excluding Turkey, Israel and Russian Federation whereas Figure A.7-A.10 reports attitudes towards immigrants. The Figures are available on the Supplementary Online Appendix.

[INSERT FIGURES A.2, A.3 AND A.4 HERE]

To identify the populist parties of each country we rely on Van Kessel (2015) and Rooduijn et al. (2019). Van Kessel (2015) uses primary sources such as party manifestos and speeches, and to corroborate the validity of the resulting populist classification, he also asks a pool of country experts to validate or reject it by answering an ad hoc questionnaire. Similarly, Rooduijn et al. (2019) list contains the populist parties in Europe with higher than 2% of the vote in at least one national parliamentary election since 1998. This list identifies 82 populist parties in 28 of the 31 countries examined. To define a party as a populist we rely on Van Kessel definition in which defines a party as populist if it portrays "the people" as virtuous and essentially homogeneous; advocates popular sovereignty, as opposed to elitist rule and defines itself as against the political establishment, which is alleged to act against the interest of the people.

3.2 Empirical Strategy

Initially, we implement an OLS regression model to examine the effect of population aging on political participation and voting for a populist party as well as on political trust and beliefs towards immigrants. Thus, we estimate the following model:

$$y_{ict} = a_0 + \alpha_1 OADR_{ct} + \alpha_2 X_{ict} + \alpha_3 Z_{ct} + \beta_c + \gamma_t + \epsilon_{ict} \tag{1}$$

 y_{ict} denotes the political beliefs, attitudes and vote for a populist party of individual i, in country c, participating in ESS round t. $OADR_{ct}$ is the old-age dependency ratio in country c at ESS round t. We use the contemporaneous values of the aggregated OADR in our benchmark analysis. Our benchmark analysis contains a vector of confounders, X_{ict} is the vector of individuallevel controls described above that can affect the voting for a populist party, political trust and attitudes towards immigrants. Z_{ct} includes a number of time-varying country-level controls that can have an impact on populist attitudes, generally. The β_c and γ_t are the country and essround fixed effects respectively, as they capture for unobserved heterogeneity at the country level and time-varying shocks across countries. Finally, ϵ_{ict} is the cohort level as individuals are grouped into eleven 7-year age cohorts. In the first part of our baseline analysis as far as the voting behavior is concerned, our sample is restricted to European countries where individuals voted for at least one populist party. ¹ Concerning political trust and anti-immigrant attitudes, we run our baseline specification for the full sample of European countries, excluding from our analysis Turkey, Israel

¹The results hold when we restrict our analysis to native individuals, dropping both the first and second generation immigrants from our sample. See Online Appendix, Table 15 and Table 16.

and Russian Federation as outliers because Turkey and Israel do not belong to the European continent geographically, following the specification of Guiso et al. (2020) and Guiso et al. (2021), respectively and on the other hand, Russian Federation has a non democratic political background compared to other European countries. Last, we also drop from our analysis the individuals who are not eligible to vote; something which is driven by inertia related to their country of origin.

4 Empirical Findings

4.1 Benchmark Findings

This section reports the empirical findings for our baseline analysis. Table 2, documents the effect of old-age dependency ratio (OADR) on voting for a populist party during the last elections. In Columns 1 and 2 we include the full set of the individual controls and as well as country and essround fixed effects and we employ the sample of European countries where individuals have voted for at least one populist party (Guiso et al., 2020), dropping out the individuals who are not eligible to vote at the national elections. Our findings suggest at first that i) in countries with a high societal aging, the individuals are less likely to participate in elections and ii) when they do so, they are more likely to vote for a populist party. In particular, a 1 unit increase in the old-age dependency ratio (OADR) is associated with a 0.05 percentage point decrease in the probability of voting in the last national elections and with a 0.15 percentage point rise in the probability of voting for a populist party. The results are significant at the 1% level.

[INSERT TABLE 2 HERE]

Table 3 reports the results for political trust and anti-immigrant attitudes. In particular, Panel

A reports the results for trust in i) political parties, ii) politicians, iii) national parliament and iv) European parliament. In all columns (1-4) we include the full set of individual controls according to Becker et al. (2017) and also the country level controls as well as country and essround fixed effects. Moreover, following Guiso et al. (2020) and Guiso et al. (2021) we use the whole sample of democratic European countries, excluding for that reason Russian Federation. The results of the table suggest that individuals who live in aging societies tend to mistrust even more political parties, politicians, parliament and European institutions. More analytically, a 1 unit increase in old-age dependency ratio (OADR) makes individuals to trust less the political parties by 0.026, trust less the politicians and national parliament by 0.035 and 0.053 respectively and last, they trust even less the European institutions by 0.083 on the 0-10 scale. The results are significant at the 1% level.

Panel B reports the results for attitudes i) immigrants make host country worse, ii) immigrants undermine the country's culture, iii) immigrants are bad for the economy and last, iv) immigrants take out more than they put in. In all columns (1-4) we include the full set of individual controls and both country and essround fixed effects for the whole European sample. Concerning immigrants, a 1 unit increase in old-age dependency ratio is associated with a 0.10 rise in beliefs that immigrants make country worse, a 0.11 rise in beliefs that immigrants undermine the host country's culture, a 0.092 rise that immigrants are bad for the country's economy and last, a 0.05 increase in beliefs that immigrants take out more than they put in the country of residence. The results are significant at the 1% confidence level. In general, it is found that individuals who live in aging societies are not so much in favor of immigrants and they also express strong anti-immigrant attitudes.

[INSERT TABLE 3 HERE]

4.2 Discussion

In this section, we discuss the empirical findings following our baseline specification, exploring the effect of the old-age dependency ratio (OADR) on voting for the right-wing and left-wing populist parties as well as the relation between political conservatism, societal aging and voting for populist parties.

Table 4 reports the effect of old-age dependency ratio (OADR) on voting for right-wing and left-wing populist parties. In order to classify the parties, we follow Rooduijn et al. (2019) and we construct a dummy that takes the value 1 if individuals voted for a right-wing or a left-wing populist party and 0 otherwise. In Columns 1 and 2 we include the full set of the individual controls and as well as country and essround fixed effects and we employ the sample of democratic European countries that have at least one populist party voted (Guiso et al., 2020) as in our benchmark specification, dropping out the individuals who are not eligible to vote at the national elections. Our findings suggest that in countries with high OADR, individuals are more likely to vote for right-wing than left-wing populist parties. More analytically, a 1 unit increase in the old-age dependency ratio (OADR) is associated with a 0.07 percentage point increase in the probability of voting for right-wing populist parties which is significant at the 1% level and a 0.004 percentage point decrease in the probability of voting for a left-wing populist party, however, we find no significant effect of living in aging countries on voting for left-wing populist parties.

[INSERT TABLE 4 HERE]

Table 5 documents the effect of the old-age dependency ratio (OADR) on voting participation

and voting for a populist party using as an additional control the individuals' political orientation measured on a scale between 0 (left-oriented) and 10 (right-oriented) and we find that older people are more conservative, they feel closer to right parties and as a result, they are more prone to vote for a populist party. Our findings remain qualitatively similar to our baseline analysis and quantitatively stronger.

[INSERT TABLE 5 HERE]

In order to explore further the hypothesis on conservatism and voting for populist parties, we split our sample to right-oriented and to left-oriented individuals. The reason is to examine whether the political orientation deferentially affects populist attitudes for each of those two groups. Specifically, we try to investigate whether our results are driven by individuals who are more right-wing oriented. As can be seen from Table 6, both groups contribute to the effect of voting for populist parties, thus the results are qualitatively similar. However, the coefficients are stronger in magnitude for the right-oriented group. Intuitively, left-oriented individuals are not in favor of participating in national elections compared to right-oriented individuals but on the other hand, right-oriented individuals are more prone to vote for populist parties.

[INSERT TABLE 6 HERE]

Overall, our findings shed light on the mechanics of population aging as an additional determinant of populist vote and attitudes. Older societies, as older people alike, tend to adopt a populist approach. Importantly, this is true even after controlling for the individual age, hinting to an aggregate societal mechanism, a mechanism that involves the responses of both young and old people to the economic and social conditions. We will shed more light to this dimension in a later section where we split the sample to find the source of the effect.

5 Robustness Exercises

The robustness section establishes the robustness of the baseline analysis to a number of alternative specifications such as the use of an alternative measure of the old-age dependency ratio (OADR), the restriction of the sample to populist countries (i.e., we keep only countries where individuals have voted at least one populist party), the exclusion of outliers such as Turkey, and last, keeping only the individuals who hold the citizenship of the country of residence.

To further account for unobservables, we conduct our baseline analysis in Nuts 1 regions.

5.1 Alternative Measure of OADR

This section establishes the robustness of the baseline analysis to the use of an alternative measure of aging to test the validity of our results using a different definition of the OADR. More specifically, we now consider the ratio of the population above 65 as a fraction of the total population. This is another proxy of population aging. It is not as direct as the OADR which better reflects the dependencies between workers and the share of older individuals, yet it goes to this direction as it captures the societal dynamics.

Table 7 documents the results relating to voting behavior. Columns 1 and 2 replicate the analysis of Table 2, restricting the sample to countries with at least one populist party voted and dropping out of the sample the individuals who are not eligible to vote in elections. Table 8 reports the results related to mistrust in political institutions and attitudes towards immigrants using the whole sample of European countries for the eligible individuals. All findings of our baseline analysis remain qualitatively similar, yet the magnitude is higher, as the OADR under

the new specification is taking higher values.

[INSERT TABLE 7 AND TABLE 8 HERE]

5.2 Sample Restricted to Populist Countries

Table 9 replicates the benchmark analysis, i.e., the effect of population aging measured by the oldage dependency ratio (OADR) on the shaping of trust in political institutions and the attitudes against immigrants, when restricting our sample to countries with at least one populist party voted by individuals in all ESS rounds. We use this specification as a valid robustness exercise to see whether our results are driven by populist countries and as well as we try to capture the endogenous presence of populist parties. The results are qualitatively similar and in most cases are quantitatively stronger.

[INSERT TABLE 9 HERE]

5.3 Sample Restricted to Individuals with Citizenship

In Table 10 and Table 11 we focus on the sub-sample of individuals who hold the citizenship in their country of residence. This is meant to check whether our results are driven by the attitudes of immigrants who hold the citizenship, who may be more sympathetic towards political institutions and support further migration. Last, we can see whether immigrants with citizenship who are more likely to have voting rights, they are also more prone to vote or not for populist parties. The majority of the results remain robust and significant at the 1% level.

[INSERT TABLE 10 AND TABLE 11 HERE]

5.4 European Union Countries Sample

In this subsection, we conduct a robustness test using only the countries that participate in European Union (EU). In accordance with Eurostat, the old-age dependency ratio has increased noticeably in EU regions in the last 20 years. Specifically, as of January 2020, the ratio increased to 35%, meaning there were slightly fewer than three adults of working age for every person aged 65 years or more. On the other hand, most of the populist rhetoric revolves around the anti-EU rhetoric (manifestations include the British vote in favor of "Brexit"; the referendum for a possible "Grexit", or the Eurosceptic rhetoric of Front National Party in France). To this end, we resorted to the same baseline specification but restricted our sample to countries that are EU members. Table 12 documents the effect of old-age dependency ratio (OADR) on voting for a populist party during the last elections in EU countries, whereas Table 13 reports the results for political trust and anti-immigrant attitudes for the members of EU. Overall, our findings suggest that in EU countries where the old age dependency ratio (OADR) is higher, individuals are not prone to participate in national elections and if so, they tend to vote for a populist party. Furthermore, individuals trust less both the national and EU parliament. As far as immigrant attitudes are concerned, individuals living in EU countries with a high OADR, express anti-immigrant attitudes, believe that immigrants make host countries worse, undermine cultural life and they are bad for the national economy. The results are significant at the 1% level except for trust in parliament which is significant at the 5%.

[INSERT TABLE 12 AND TABLE 13 HERE]

5.5 Regional Analysis

Our baseline analysis controls for a wide range of fixed effects, individual and aggregate controls to capture a large number of unobservables. In this section, we try to further account for potential unobservables by conducting a regional analysis in Nuts 1 European regions as we do not have sufficient variation in Nuts 2 regions. This comes with benefits and costs. On the one, this allows for the inclusion of a large number of unobservables and helps to eliminate unobserved heterogeneity at the regional level. On the other hand though, the variation of OADR we exploit is more limited compared to the one across countries. To this end we report our results here (which always remain strong) yet we do not choose this as our benchmark specification.

As key explanatory variable we use the regional old-age dependency ratio (OADR) which we interpret as the proxy for population aging. We extract data from the Eurostat from 2002-2019. We use the ratio of older dependent people; older than 64 to the working-age population those aged 15-64. We aggregate the Eurostat data over 2-year intervals in order to match with the ESS in Nuts 1 level. The same individual control variables as in the baseline analysis are used and we also include regional characteristics such as the regional GDP per capita growth, fertility and mortality rates, life expectancy and unemployment.

As in our baseline analysis, our empirical specification is the following:

$$y_{irt} = a_0 + \alpha_1 OADR_{rt} + \alpha_2 X_{irt} + \alpha_3 Z_{rt} + \beta_c + \gamma_t + \epsilon_{irt}.$$
(2)

Here, y_{irt} denotes the political beliefs, immigrant attitudes and vote for a populist party of individual i, in region r, participating at ESS round t. The $OADR_{rt}$ is the old-age dependency ratio in region r at ESS round t. We use the contemporaneous values of the OADR as in our benchmark analysis. Our analysis contains a vector of confounders, X_{irt} is the vector of individuallevel controls described above that can affect the voting for a populist party, political trust and attitudes towards immigrants. The Z_{rt} includes a number of time-varying regional-level controls that can have an impact on populist attitudes, generally. The β_c and γ_t are the country and essround fixed effects respectively, as they capture for unobserved heterogeneity at the country level and time-varying shocks across countries. Finally, ϵ_{irt} is the region and essround specific error term. The standard errors are robust and clustered at the cohort level (eleven 7-year age cohorts) as in our baseline analysis.

In order to examine the effect of population aging on voting for populist parties we restrict the sample to populist European countries. As far as the trust and immigrant attitudes we use the sample of democratic European countries. Last, we also exclude from our analysis the individuals who are not eligible to vote.

According to Table 14 and Table 15, our findings remain qualitatively and quantitatively similar to our baseline analysis. The effect of population aging on voting behavior, political mistrust and attitudes towards immigrants at the Nuts 1 regions remains strong and statistically significant at the 1% confidence level.

[INSERT TABLE 14 AND TABLE 15 HERE]

6 Mechanism

Our paper contributes to uncovering an additional factor in the rise of populism, i.e., that of population aging. We consider two mechanisms via which population aging can affect populist attitudes.

The first mechanism relates to the age of the median voter, who naturally becomes older in "old" societies. According to the literature this already partly accounts for our findings as older people tend to become more conservative. Whereas the age of the median voter is an aggregate effect, still it is implicitly driven by the fact that it is the individual attitude that is changing.

The second mechanism appeals to the impact that the presence of the "old" group in the society has on the society and the economy as a whole, it is thus more of an "externality" effect. We argue that living in a society populated by a large share of old people changes the attitudes of both young and old people. Young people are aware of the fact that they have to cater for a large share of old people and this gives rise to different incentives and attitudes compared to individuals living in "young" societies.

To further explore our hypothesized mechanism we split our sample to old individuals who are above 65 years of age and to young individuals below the 64 years. The reason is to examine whether societal population aging deferentially affects populist attitudes for each of those two age groups. To be more precise we try to investigate whether our results are driven by specific age groups. As can be seen from Panel A and Panel B in Table 16, both groups contribute equally to the effect of population aging on individuals' voting behavior. The coefficients are similar in magnitude and significance.

[INSERT TABLE 16 HERE]

Table 17 and Table 18 report the effect of population aging on trust in political institutions and immigrant attitudes splitting the sample to old individuals who are above 65 years of age in Panel A and to young individuals below the 64 years in Panel B. Overall, our results are also similar to our baseline analysis indicating that the results are not driven by a specific age group.

[INSERT TABLE 17 AND TABLE 18 HERE]

The presence of an old audience also allows politicians to approach this group differently and appeal to it via collective memory. Past experiences and historical events have been argued to have a long-term impact in all areas of economic decision-making (Malmendier (2021) on historical events and traumatic past experiences, Gavresi and Litina (2023) on the role of macroeconomic shocks during their impressionable years between 18 and 25 years of age on populist attitudes, Fouka and Voth (2016) on how past events can trigger selective recall, Dinas et al. (2021)on historical experiences of past violence and repression and the formation of persistent social identities).

Relying on this, populist parties often are mobilized through platforms that build heavily on historical memory, offering a nostalgic and sometimes reinvented vision of the past (De Cesari et al., 2020) and find new ways to secure the favorable votes of the median voter.

7 Concluding Remarks

This paper establishes the interplay of the population aging as a novel determinant of the greater demand for populism in Europe. Individuals who live in European countries which have a higher old-age dependency ratio (OADR) tend to participate less in national elections and if so, they tend to support populist parties. They also trust less the political institutions and manifest stronger anti-immigrant attitudes.

There are two potential mechanisms driving our result. First, a shift in the median voter age. Older people tend to be more conservative and this is reflected on the median vote and attitude as well. More conservative individuals, are more right-wing oriented, voting for right-wing populist parties and as a result, these individuals are more prone to vote for populist parties. The second mechanism appeals to the impact that the presence of the "old" group in the society has on the society and the economy as a whole, it is thus more of an "externality" effect. Living in a society populated by a large share of old people changes the attitudes of both young and old people. Young people are aware of the fact that they have to cater for a large share of old people and this gives rise to different incentives and attitudes compared to individuals living in "young" societies.

The policy implications of our findings are clear as they suggest another risk (political and societal) associated with population aging, beyond the direct economic consequences of the phenomenon. They also hint to the approaches hidden in the political platforms of populist parties, especially via appealing to collective memory and past shocks. Mainstream parties should consider the danger and include in their political agenda the preferences and needs of younger individuals not targeting solely the median voter. Tables and Figures

Table 1: Descriptive Statistics

	min	max	
Voting participation			
Vote in last national elections	0	1	
Vote for a populist party	0	1	
Vote for a right-wing populist party	0	1	
Vote for a left-wing populist party	0	1	
Political trust			-
Trust in political parties	0	10	
Trust in politicians	0	10	
Trust in parliament	0	10	
Trust in EU parliament	0	10	
Attitudes towards immigrants			
Immigrants make country worse	0	10	
Immigrants undermine country's culture	0	10	
Immigrants are bad for the country's economy	0	10	
Immigrants take out more than they put in	0	10	
Individual characteristics			
Men	0	1	
Age at interview	14	105	
Education status	1	5	
Income sources	1	7	
Income difficulties	1	4	
Globalization exposure	0	1	
Race	1	2	
Health status	1	5	
Life satisfaction	1	10	
Marital status	1	6	
Political orientation	0	10	
Country characteristics			
Old age dependency ratio (OADR)	10.25	35.82	
Fraction of Old above 65	6.62	22.88	
Life expectancy	67.15	83.75	
Fertility rate	1.17	3.11	
Mortality Rate	1.6	23.1	
Unemployment rate	2.08	25.44	
Trade ($\%$ GDP)	46.69	289.49	
Health expenditures	4.75	11.87	
GDP per capita in PPP	10759.28	103676.10	
Nuts 1 characteristics			
Regional OADR	15.87	42.78	
Regional real growth rate	-5.0	16.6	
Regional life expectancy	73.20	85.65	
Regional fertility rate	0.96	2.04	
Regional mortality Rate	0	10.75	
Regional unemployment rate	2.15	34.30	

Notes: The table reports the descriptive statistics of old-age dependency ratio (OADR), fraction of old above 65, participation in voting, vote for populist parties, vote for a right-wing populist party, vote for a left-wing populist party, trust in political institutions; i) parties, ii) politicians, iii) national parliament and iv) European parliament, satisfaction from national government, attitudes towards immigrants; i) immigrants make host country worse, ii) immigrants undermine country's culture, iii) immigrants are bad for the country's economy and iv) immigrants take out more than they put in, individual demographic characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, political orientation, marital and health status. As country controls aggregate GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure and as regional controls in Nuts 1 regions are the regional old-age dependency ratio (OADR), real growth rate, regional life expectancy, fertility and mortality rates and regional unemployment rate.

	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
OADR	0051***	.0148***
	[.0015]	[.0012]
R-squared	.11	.19
Sample	305091	216566
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 2: Aging and Voting Participation and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

Table 3: Aging, Political Trust and Attitudes Towards Immigrants

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and immigrant attitudes. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	right-wing	left-wing
	pop. parties	pop. parties
	(1)	(2)
OADR	.0071***	0004
	[.0015]	[.0006]
R-squared	.18	.07
Sample	240831	279236
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 4: Discussion: Aging and Voting Right-Wing and Left-Wing Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on voting for right-wing and left-wing populist parties. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
OADR	0051***	.0157***
	[.0015]	[.0011]
Right Voter	.0033***	.0201***
	[.0006]	[.0005]
R-squared	.10	.20
Sample	272831	203794
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 5: Discussion: Aging, Conservatism and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on voting participation and voting for populist parties. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As an extra control variable political orientation is used. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
Panel A. Right Political Orientation	(1)	(2)
OADR	0039**	.0172***
	[.0015]	[.0015]
R-squared	.12	.26
Sample	218195	148096
	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
Panel B. Left Political Orientation	(1)	(2)
OADR	0082***	.0108***
	[.0019]	[.0022]
R-squared	.10	.19
Sample	86896	68470
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 6: Discussion (Split the Sample): Aging, Conservatism and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on voting participation and voting for populist parties, splitting the sample to right and left political orientation. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	populist
	elections	parties
		1
	(1)	(2)
	(1)	(2)
Fraction OADR	0106***	$.0262^{***}$
	[.0030]	[.0020]
R-squared	.11	.19
Sample	305091	216566
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 7: Aging Fraction and Voting Participation and Voting for Populist Parties

Notes: This table establishes the exposure to a fraction of old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

rust Trust Tru cicians Parliament EU	(2) (3) (4)	(87*** 0798*** 137 110 [.0131] [.010]	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	igrants Immigrants Immigrames Immigrames and for take the take take the take take the take take take take take take take tak	(2) (3) (4)	31*** .1886*** .1135 103 [.0113] [.024	18 .14 .05	8708 317982 6228	Ves Yes Yes	les Yes Yes	les Yes Yes	Ves Yes Yes	hort Cohort Coho
Trust Th Parties Polit	(1) (1	0272*04 [.0146] [.0	. 22	Immigrants Immi make country unde worse cul	(1) (1)	.2039*** .23 [.0098] [.0	.16 .	317569 318	Yes J	Yes J	Yes J	Yes J	Cohort Co
	Panel A.	Fraction OADR	R-squared Sample		Panel B.	Fraction OADR	R-squared	Sample	Individual Controls	Country-Level Controls	Country Fixed Effects	Essround Fixed Effects	Cluster SE

Table 8: Aging Fraction Political Trust and Attitudes Towards Immigrants

Notes: This table establishes the exposure to a fraction of old-age dependency ratio (OADR) and its effect on political trust and anti-immigrant attitudes. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

Trust EU	(4)	~	0684^{***}	[.004.l] .09	280143	Immigrants take out	more	(4)	~	$.0261^{*}$	[.0134]	60.	59082	Yes	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	Cohort	With P
Trust Parliament	(3)	~	0597*** [0020]	[.uuoo] .22	302230	Immigrants bad for	economy	(3)	~	$.0949^{***}$	[.0052]	.15	296116	\mathbf{Yes}	Yes	Yes	\mathbf{Yes}	Cohort	With P
Trust Politicians	(2)	× •	0433*** [0021]	[.0001] .20	303783	Immigrants undermine	culture	(2)	~	$.1255^{***}$	[.0054]	.18	296541	$\mathbf{Y}_{\mathbf{es}}$	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	Cohort	With P
Trust Parties	(1)	~	0431*** [0004]	[.uuo4] .21	272197	Immigrants make country	worse	(1)	~	$.1166^{***}$	[.0053]	.16	295483	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	Cohort	With P
		Panel A.	OADR	R-squared	Sample				Panel B.	OADR		R-squared	Sample	Individual Controls	Country-Level Controls	Country Fixed Effects	Essround Fixed Effects	Cluster SE	Countries

Table 9: Populist Countries: Aging, Political Trust and Attitudes Towards Immigrants

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and anti-immigrant attitudes restricting te sample to countries with at least one populist party. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and escround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, and * at the 10% confidence level.

	Vote	Vote
	in last	$\operatorname{populist}$
	elections	parties
	(1)	(2)
OADR	0053***	$.0147^{***}$
	[.0015]	[.0012]
R-squared	.11	.19
Sample	299743	214999
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

 Table 10: Individuals with Citizenship: Aging and Voting Participation and Voting for Populist

 Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party restricting the sample to individuals hold the citizenship of the country of residence. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at 1% level, ** at the 5% level, and * at 10% confidence level.

Trust EU	(4)	0821*** [.0057]	00° .09 294412	Immigrants take out more	(4)	.0480*** [0430]	[.0136]	61104	Yes	${ m Yes}$	${ m Yes}$	Cohort	A11
Trust Parliament	(3)	0512^{***} [.0074]	23 319968	Immigrants bad for economy	(3)	$.0920^{***}$	[.0048].14	312116	Yes	$ m Y_{es}$	Yes	Cohort	All
Trust Politicians	(2)	0326^{***} [.0068]	.21 321718	Immigrants undermine culture	(2)	.1180***	[.0037].18	312819	${ m Yes}$	Yes Ves	Yes	Cohort	All
Γ	(1)	0248^{**} [.0081]	22.22 288388	Immigrants make country worse	(1)	$.1089^{***}$	[.0038].16	311759	Yes	Yes Ves	Yes	Cohort	A11
	Panel A.	OADR	R-squared Sample		Danel R	OADR	R-squared	Sample	Individual Controls	Country-Level Controls Country Fixed Effects	Essround Fixed Effects	Cluster SE	Countries

Table 11: Individuals with Citizenship: Aging. Political Trust and Attitudes Towards Immigrants

ample to individuals Notes: 1 instable establishes the exposure to old-age dependency ratio (UADIK) and its effect on political trust and anti-immigrant attitudes restricting the sample to individuals hold the citizenship of the country of residence. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	$\operatorname{populist}$
	elections	parties
	(1)	(2)
OADR	0038***	.0104***
	[.0010]	[.0012]
R-squared	.11	.20
Sample	277635	196602
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 12: EU Countries: Aging and Voting Participation and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and immigrant attitudes for EU countries. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

lrust EU	(4)	0556***	[.0048].09	269844	Immigrants take out more	(4)	~	.0295	[.0173]	60.	56363	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	Cohort	All
'l'rust Parliament	(3)	0138**	[.0055].21	289956	Immigrants bad for economy	(3)		$.1044^{***}$	[.0066]	.14	283413	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	Cohort	All
'I'rust Politicians	(2)	0047	[.0049].20	291806	Immigrants undermine culture	(2)		$.1309^{***}$	[.0071]	.18	283595	$\mathbf{Y}_{\mathbf{es}}$	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	Cohort	All
Trust Parties	(1)	0014	[.0077]	261657	Immigrants make country worse	(1)	~	$.1131^{***}$	[.0045]	.16	282975	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	Cohort	All
	Panel A.	OADR	R-squared	Sample			Panel B.	OADR		R-squared	Sample	Individual Controls	Country-Level Controls	Country Fixed Effects	Essround Fixed Effects	Cluster SE	Countries

Table 13: EII Countries: Aging Political Trust and Attitudes Towards Immigrants

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and immigrant attitudes for EU countries. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
OADR	0028***	.0064***
	[.0007]	[.0006]
R-squared	.11	.24
Sample	139282	96460
Individual Controls	Yes	Yes
Regional-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

 Table 14:
 Regional-Level Analysis: Aging and Voting Participation and Voting for Populist

 Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party in Nuts 1 level. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As regional controls GDP per capita growth, unemployment, life expectancy, fertility and mortality rates are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of the survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

lrust lrust Parliament EU	(3) (4)	0431***0376*** [[.ucol] [.ucol] .22 .09 144686 137013	mmigrants Immigrants bad for take out economy more	(3) (4)		.0479*** .0338***	[.0034] $[.0083]$	141451 24636	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Cohort Cohort
Irust Politicians I	(2)	0124*** []	[.0035].21 .21 145419	Immigrants I undermine culture	(2)	~	$.0515^{***}$	[.0023]	141621	\mathbf{Yes}	Yes	\mathbf{Yes}	\mathbf{Yes}	Cohort
'Irust Parties	(1)	0155*** []	[.0033].21 .21 144940	Immigrants make country worse	(1)	~	$.0424^{***}$	[.0025]	140957	Yes	Yes	\mathbf{Yes}	\mathbf{Yes}	Cohort
	Panel A.	OADR	R-squared Sample			Panel B.	OADR	R_connerted	Sample	Individual Controls	Country-Level Controls	Country Fixed Effects	Essround Fixed Effects	Cluster SE

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۰ ۰ ۰	Regional-Level Analysis: Aging, Po
	15: Regional-Level Analysis: Aging, Po

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and anti-immigrant attitudes in Nuts 1 level. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As regional controls GDP per capita growth, unemployment, life expectancy, fertility and mortality rates and percentages of memployment are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Vote	Vote
	in last	$\operatorname{populist}$
	elections	parties
	(1)	(2)
Panel A. Old Age Groups		
OADR	0024	.0116***
	[.0013]	[.0014]
R-squared	.09	.18
Sample	73650	55627
	Vote	Vote
	in last	populist
	elections	parties
		1
	(1)	(2)
Panel B. Young Age Groups		
OADR	0058**	.0165***
	[.0018]	[.0009]
R-squared	.12	.19
Sample	231441	160939
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table 16: Split the Sample: Aging and Voting Participation and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party, splitting the sample to old and young individuals. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

	Trust	Trust	Trust	Trust
	Parties	Politicians	Parliament	EU
	(1)	(2)	(3)	(4)
Panel A. Old Age Groups				
OADR	0115^{*}	0251**	0254***	0816***
	[.0054]	[.0073]	[.0058]	[.0105]
R-squared	.19	.19	.19	60.
Sample	72305	79476	78941	69168
	Trust	Trust	Trust	Trust
	Parties	Politicians	$\operatorname{Parliament}$	EU
	(1)	(2)	(3)	(4)
Panel B. Young Age Groups				
OADR	0305**	0373***	0597***	0842***
	[8600.]	[.0078]	[6200]	[.0065]
R-squared	.23	.22	.25	60.
Sample	221172	247970	246622	230728
Individual Controls	Yes	$\mathbf{Y}_{\mathbf{es}}$	Yes	Yes
Country-Level Controls	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	Yes	Yes
Country Fixed Effects	Yes	$\mathbf{Y}_{\mathbf{es}}$	Yes	Yes
Essround Fixed Effects	Yes	$\mathbf{Y}_{\mathbf{es}}$	\mathbf{Yes}	\mathbf{Yes}
Cluster SE	Cohort	Cohort	Cohort	Cohort
Countries	AII	AII	All	AII

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust, splitting the sample to old and young individuals. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

 Table 17: Split the Sample: Aging and Political Trust

Panel A. Old Age Groups OADR 3-squared	make country worse (1) .0974*** [.0090] .15 .75818	undermine culture (2) (2) .1180*** [.0094] .16 75476	Immigrants bad for economy (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	Imn ta 1
Panel B. Young Age Groups	Immigrants make country worse (1)	Immigrants undermine culture (2)	Immigrants bad for economy (3)	Imn tai
OADR	$.1134^{***}$ [.0036]	$.1176^{***}$ [.0051]	$.0993^{***}$ [.0040]	0,
R-squared	.15	.18	.14	
Sample Individual Controls	241751Ves	243232 Vos	242355 Vas	4
Country-Level Controls	${ m Yes}$	Yes	Yes	r
Country Fixed Effects	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	•
Essround Fixed Effects	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	F
Cluster SE	Cohort	Cohort	Cohort	Ŭ
Jountries	A11	Δ11	A 11	

 Table 18: Split the Sample: Aging and Attitudes Towards Immigrants

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on anti-immigrant attitudes, splitting the sample to old and young individuals. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls logged GDP per capita in PPP, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

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A Online Appendix

Voting Behavior Variables

Vote in last national elections. "Vote in national elections" corresponds to the question "Some people don't vote nowadays for one reason or another. Did you vote in the last [country] national election in [month/year]?". It is a dummy variable taking the value 1 if he or she has voted and 0 otherwise. The source of the data is the European Social Survey.

Party voted. Individuals of all countries correspond to the question "Which party did you vote for in that election?". The source of the data is the European Social Survey.

Vote for a populist party. It is a dummy variable indicating whether the individuals in each European country have voted for a populist party or not. 0 means not voting for populist parties and 1 means voted for it. The source of the data is the European Social Survey.

Vote for right-wing parties. It is a dummy variable indicating whether the individuals in each European country have voted for a right-wing party or not. 0 means not voting for right-wing parties and 1 means voted for right parties. The source of the data is the European Social Survey.

Vote for left-wing parties. It is a dummy variable indicating whether the individuals in each European country have voted for a left-wing party or not. 0 means not voting for left-wing parties and 1 means voted for left parties. The source of the data is the European Social Survey.

Political Trust Variables

Trust in Parties. "Trust in Political Parties" corresponds to the question "Using this card, please tell me on a score of 0-10 how much you personally trust each of the institutions I read out. 0 means you do not trust an institution at all, and 10 means you have complete trust. Firstly

[country]'s political parties?". The source of the data is the European Social Survey.

Trust in Politicians. "Trust in Politicians" corresponds to the question "Using this card, please tell me on a score of 0-10 how much you personally trust each of the institutions I read out. 0 means you do not trust an institution at all, and 10 means you have complete trust. Firstly [country]'s politicians?". The source of the data is the European Social Survey.

Trust in Parliament. "Trust in Parliament" corresponds to the question "Using this card, please tell me on a score of 0-10 how much you personally trust each of the institutions I read out. 0 means you do not trust an institution at all, and 10 means you have complete trust. Firstly [country]'s parliament?". The source of the data is the European Social Survey.

Trust in European Union. "Trust in European Parliament" corresponds to the question "Using this card, please tell me on a score of 0-10 how much you personally trust each of the institutions I read out. 0 means you do not trust an institution at all, and 10 means you have complete trust. Firstly the European Parliament?". The source of the data is the European Social Survey.

Immigrant Attitudes Variables

Immigrants make country worse. Individuals correspond to the question "Is [country] made a worse or a better place to live by people coming to live here from other countries?". 0 means better place to live, and 10 worse place to live. The source of the data is the European Social Survey.

Immigrants undermine cultural life. Individuals correspond to the question "[Country]'s cultural life is generally undermined or enriched by people coming to live here from other countries?". 0 means that cultural life is enriched by immigrants, and 10 cultural life is undermined. The source of the data is the European Social Survey.

Immigrants are bad for the economy. Individuals correspond to the question "It is generally bad or good for [country]'s economy that people come to live here from other countries?". 0 means that immigrants are bad for the economy, and 10 that immigrants are good for the economy. The source of the data is the European Social Survey.

Immigrants take out more than they put in. Individuals correspond to the question "Do you think people who come here take out more than they put in or put in more than they take out?". 0 means that immigrants generally put in more and 10 that immigrants generally take out more. The source of the data is the European Social Survey.

Explanatory Variables

Old Age Dependency Ratio (OADR). Age dependency ratio, old, is the ratio of older dependents i.e., people older than 64 to the working-age population those ages 15-64. Data are shown as the proportion of dependents per 100 working-age population. The source of the data is the World Development Indicators.

Fraction of Old above 65. The old above 65 ratio is measured as the number of people above the age of 65 as a fraction of the total population. The source of the data is the World Development Indicators.

Individual Control Variables

Age. The age of the respondent. The source of the data is the European Social Survey.

Gender. The gender of the respondent. It is a dummy variable taking the value 0 for women and 1 for men. The source of the data is the European Social Survey.

Education Status. Individuals correspond to the question "What is the highest level of education you have achieved?". 0 means less than lower secondary education and 5 means that tertiary education is completed. The source of the data is the European Social Survey. **Income Sources.** It is associated with the question "What is the main source of income in your household?". 1 mean that household income is derived from wages and salaries and 8 indicates other sources. The source of the data is the European Social Survey.

Race. Individuals correspond to the question "Do you belong to a minority ethnic group in [country]?". It is a dummy variable taking the value 1 whether individuals is belong to a minority group and 2 otherwise. The source of the data is the European Social Survey.

Income Difficulties. It is associated with the question "Which of the descriptions on this card comes closest to how you feel about your household's income nowadays?". 0 means "Living comfortably on present income" and 1 means "Very difficult on present income". The source of the data is the European Social Survey.

Globalization Exposure. Individuals respond to the question "What is/was the name or title of your main job? In your main job, what kind of work do/did you do most of the time? What training or qualifications are/were needed for the job?". It is a dummy variable taking the value 1 whether the individual works as a low ski blue collar worker in manufacturing and 0 if not. The source of the data is the European Social Survey.

Marital Status. Individuals correspond to the question "Could I ask about your current legal marital status? Which of the descriptions on this card applies to you?". 1 means never married, and 6 means married. The source of the data is the European Social Survey.

Health Status. Individuals correspond to the question "How is your health in general?". 1 means very good health, and 5 means very bad health. The source of the data is the European Social Survey.

Life Satisfaction. Individuals correspond to the question "All things considered, how satisfied are you with your life as a whole nowadays?". 1 means extremely dissatisfied, and 10 means extremely satisfied. The source of the data is the European Social Survey.

Political Orientation. Individuals correspond to the question "In politics, people sometimes talk of "left" and "right". Where would you place yourself on this scale, where 0 means the left and 10 means the right?". The source of the data is the European Social Survey.

Country Control Variables

GDP per capita in PPP. GDP per capita based on purchasing power parity (PPP). PPP GDP is gross domestic product converted to international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GDP as the U.S. dollar has in the United States. GDP at purchaser's prices is the sum of gross value added by all resident producers in the country plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. Data are in constant 2017 international dollars. The source of the data is the World Development Indicators.

Mortality Rate. Infant mortality rate is the number of infants dying before reaching one year of age, per 1,000 live births in a given year. The source of the data is the World Development Indicators.

Life Expectancy. Life expectancy at birth indicates the number of years a newborn infant would live if prevailing patterns of mortality at the time of its birth were to stay the same throughout its life. The source of the data is the World Development Indicators.

Fertility Rate. Total fertility rate represents the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with age-specific fertility rates of the specified year. The source of the data is the World Development Indicators.

Unemployment Rate. Unemployment refers to the share of the labor force that is without work but available for and seeking employment. The source of the data is the World Development Indicators.

Trade % GDP. Trade is the sum of exports and imports of goods and services measured as a share of gross domestic product. The source of the data is the World Development Indicators.

Health Expenditures. Level of current health expenditure expressed as a percentage of GDP. Estimates of current health expenditures include healthcare goods and services consumed during each year. This indicator does not include capital health expenditures such as buildings, machinery, IT and stocks of vaccines for emergency or outbreaks. The source of the data is the World Development Indicators.

Regional (Nuts 1) Control Variables

Regional Old Age Dependency Ratio. Regional age dependency ratio, old, is the ratio of older dependents i.e., people older than 64 to the working-age population those ages 15-64. The source of the data is the Eurostat.

Regional GDP per capita growth. Real growth rate of regional gross value added (GVA) at basic prices by Nust 1 regions. The source of the data is the Eurostat.

Regional Mortality Rate. Infant mortality rate is the number of infants dying before reaching one year of age, per 1,000 live births in a given year. The source of the data is the Eurostat.

Regional Life Expectancy. Life expectancy shows the number of years a newborn infant would live if prevailing mortality patterns are the same throughout his life. The source of the data is the Eurostat.

Regional Fertility Rate. The fertility rate is the total number of children that would be

born by a woman if she is in the age that can give birth. The source of the data is the Eurostat.

Regional Unemployment Rate. Unemployment refers to the share of the labor force that is without work but available for and seeking employment. The source of the data is the Eurostat.

Additional Tables and Figures

In this section we provide an additional robustness exercise. We run the benchmark analysis dropping both the first and the second generation immigrants as well, to further mitigate identification concerns associated with inertia in attitudes that can persist across generations.

	Vote	Vote
	in last	populist
	elections	parties
	(1)	(2)
OADR	0052***	$.0147^{***}$
	[.0015]	[.0014]
R-squared	.12	.19
Sample	272720	196803
Individual Controls	Yes	Yes
Country-Level Controls	Yes	Yes
Country Fixed Effects	Yes	Yes
Essround Fixed Effects	Yes	Yes
Cluster SE	Cohort	Cohort
Countries	With P	With P

Table A.1: Native Sample: Aging and Voting Participation and Voting for Populist Parties

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on participation in voting and vote for a populist party. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls aggregate GDP per capita growth, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. The sample is restricted to the ESS countries where individuals voted for at least one populist party during the years of survey. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.

Trust EU	(4)	0796***	[.0056]09	267561	Immigrants take out more	(4)	$.0460^{***}$	[.0141]	.00	55461	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	$\mathbf{Y}_{\mathbf{es}}$	Cohort	All
Trust Parliament	(3)	0504***	[.0070].23	290753	Immigrants bad for economy	(3)	.0928***	[.0045]	.15	283436	Yes	Yes	\mathbf{Yes}	Y_{es}	Cohort	All
Trust Politicians	(2)	0308***	[.0064].22	292331	Immigrants undermine culture	(2)	$.1208^{***}$	[.0033]	.18	283823	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	$\mathbf{Y}_{\mathbf{es}}$	Cohort	All
Trust Parties	(1)	0242***	[.0069]22	261828	Immigrants make country worse	(1)	.1122***	[.0040]	.16	283155	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	\mathbf{Yes}	Cohort	All
	Danel A	OADR	R-squared	Sample		Panel B.	OADR		R-squared	Sample	Individual Controls	Country-Level Controls	Country Fixed Effects	Essround Fixed Effects	Cluster SE	Countries

Table A.2: Native Sample: Aging. Political Trust and Attitudes Towards Immigrants

Notes: This table establishes the exposure to old-age dependency ratio (OADR) and its effect on political trust and immigrant attitudes. The analysis controls for individual characteristics such as age, gender, race, education, income source, income difficulties, exposure to globalization, life satisfaction, marital and health status. As country controls aggregate GDP per capita growth, unemployment, life expectancy, fertility and mortality rates, percentages of unemployment, trade and health expenditure are used, as well as country and essround fixed effects. Robust standard errors clustered at the cohort level are shown in parenthesis; *** denotes statistical significance at the 1% level, ** at the 5% level, and * at the 10% confidence level.



Figure A.1: The Evolution of the OADR from 2002 to 2019 in Europe

Notes: This figure presents the OADR in European countries from 2002 to 2019. Source: World Bank Indicators.



Figure A.2: Voting Populist Parties in Europe

Notes: This figure presents the (mean) shares of voting for populist parties, by each European country where individuals voted at least one populist party. *Source: European Social Survey*.



Figure A.3: Trust in Parliament in Europe

Notes: This figure presents the (mean) trust in national Parliament, by each European country. Source: European Social Survey.



Figure A.4: Trust in politicians in Europe

Notes: This figure presents the (mean) trust in politicians, by each European country. Source: European Social Survey.



Figure A.5: Trust in political parties in Europe

Notes: This figure presents the (mean) trust in political parties, by each European country. Source: European Social Survey.



Figure A.6: Trust in EU in Europe

Notes: This figure presents the (mean) trust in EU, by each European country. Source: European Social Survey.



Figure A.7: Immigrants make the country worse in Europe

Notes: This figure presents the (mean) immigrants make country worse attitudes, by each European country. Source: European Social Survey.



Figure A.8: Immigrants undermine cultural life in Europe

Notes: This figure presents the (mean) immigrants undermine cultural life attitudes, by each European country. Source: European Social Survey.



Figure A.9: Immigrants are bad for the economy in Europe

Notes: This figure presents the (mean) immigrants are bad for the economy attitudes, by each European country. Source: European Social Survey.



Figure A.10: Immigrants take out more than they put in taxes in Europe

Notes: This figure presents the (mean) immigrants take out more than they put in taxes attitudes, by each European country. Source: European Social Survey.