Golfing with Trump. Social capital, decline, inequality, and the rise of populism in the US

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In 2000, Robert Putnam forecast that United States (US) democracy was at risk from the twin challenges of declining civic engagement and rising interpersonal inequality. Sixteen years later, his predictions were vindicated by the election of Donald Trump as president of the US. This paper analyses the extent to which the 2016 election of Donald Trump—and his failed re-election bid in 2020-have been related to levels of social capital and interpersonal inequalities. We posit an alternative: that the rise in votes for Trump has been the result of long-term economic and population decline in areas with strong social capital. This hypothesis is confirmed by the econometric analysis conducted for US counties. Long-term declines in employment and population-rather than in earnings, salaries, or wages-in places with relatively strong social capital propelled Donald Trump to the presidency and almost secured his re-election. By contrast, low social capital and high interpersonal inequality were not connected to a surge in support for Trump. These results are robust to the introduction of control variables and different inequality measures. The analysis also shows that the discontent at the base of the Trump margin is not just a consequence of the 2008 crisis but had been brewing for a long time. Places in the US that remained cohesive but witnessed an enduring decline are no longer bowling alone, they have golfed with Trump and will, in all likelihood, continue to golf with Trumpism or other forms of populism.

Keywords: populism, social capital, inequality, economic and demographic decline, Donald Trump, USA

JEL Classifications: D31, D72, O15, R11

Introduction

Just over 20 years ago, Robert Putnam (2000) wrote *Bowling Alone*. In this seminal book Putnam used the fact that Americans were

increasingly bowling alone as a metaphor for the decline in civic engagement and political participation—and in all forms of social capital—that had become a dominating trend in the

United States (US) since the 1960s. Americans were bowling alone because bowling clubs and leagues were disappearing. But the decline in social capital across the US did not stop at bowling. There was wane in all other sorts of civic engagement and social trust, from political participation, voter turnout, newspaper readership, personal letter writing, or union membership, to church attendance, club meetings, social visiting, card playing, charitable giving, or volunteering. For Putnam, this decline in community engagement was destroying the very fabric of American cities and towns and represented a fundamental threat for democracy, as 'the performance of [...] democratic institutions depends in measurable ways upon social capital' (Putnam, 2000: 394).

The progressive erosion of American social capital took place in parallel with another factor regularly considered one of the main drivers of populism in the developed world: the rise in interpersonal inequality. The US, which experienced a significant drop in interpersonal inequality during World War II that continued well into the post-war period, started becoming more unequal. From the late 1960s and, especially since the 1970s, the gap between the rich and the rest of society has grown rapidly (Katz and Murphy, 1992; Piketty and Saez, 2003). According to Putnam (2000: 359), 'the timing of the two trends [is] striking: Sometime around 1965-1970 America reversed course and started becoming both less just economically and less well connected socially and politically'. The combination of declining social capital with the rising interpersonal inequality represented for Putnam the biggest threat to American democracy.

Less than two decades later, Putnam's prophecy was, in part, fulfilled. The 2016 election of Donald Trump, considered by many a 'polarising and politically inexperienced figure [...] who uses populist rhetoric to legitimise his style of governance, while promoting authoritarian values that flattened the liberal norms

underpinning American democracy' (Norris and Inglehart, 2019: 3), put US democratic institutions under severe strain, stretching democracy in America to the extreme. The storming of the US Capitol on 6 January 2021 was proof of this risk.

Donald Trump's election and presidency may have indeed affected US democratic health. However, it is far less certain that the motives for the populist sway in the American electorate had to do with a combination of high interpersonal inequality and lower social capital. It has already been noted that, frequently, the poor and the rich, with possibly the exception of those at the very top of the income pyramid, in US society voted together for Hillary Clinton in the 2016 presidential election (Inglehart and Norris, 2017; Smith and Hanley, 2018). Support for Hillary Clinton was particularly strong in some of the most unequal large cities of the US, where social capital is far less prevalent than in midtown and rural America. As indicated by Rodríguez-Pose (2020: 6) 'the very wealthy suburbs of West Philadelphia voted for Hillary Clinton alongside the deprived Philadelphia Badlands to the north of the City'. By contrast, Donald Trump amassed large numbers of votes among white working-class voters in long-term declining medium-size cities, suburbs, towns and rural areas (Cramer, 2016; Rodden, 2019; Wuthnow, 2019), which had once been not only the industrial and economic motors of the US but also the poster children of America's communities and social capital.

Hence, other factors rather than inequality and low social capital may have driven the surge in Trump vote and, therefore, the rise of populism in the US. Prominent among these factors, as this paper will posit, is the decline in small cities, towns and many rural areas across the US and the related rise in interterritorial, rather than interpersonal, inequality.

We will analyse for the first time the link between social capital, interpersonal inequality and long-term economic and demographic decline in America's communities, on the one hand, and the rise in pro-Trump populist vote, on the other. The aim is to show that the surge in pro-Trump populism in the US may not have come from, as suggested by Putnam (2000), low social capital or high interpersonal inequality (at least, at the local level), or their combination. We argue that a fundamental driver in the swing of votes towards Donald Trump is a factor that has remained relatively unnoticed not just in Putnam's *Bowling alone*, but also in much of the literature on the rise of populism in the US¹: the long-term economic and demographic decline of American towns and rural areas and the related rise in interterritorial inequality.

The role of these three factors in the 2016 and 2020 presidential elections are assessed, by considering the increase in votes for the Republican Party between the 2012, on the one hand, and the 2016 and 2020 presidential elections, on the other—the *Trump margin*—at the county level.

We hypothesise that low social capital alone is unlikely to have triggered the swing of voters to Donald Trump and that interpersonal inequality at the local level is unrelated to increases in Trump's vote share. We propose that it is precisely the long-term economic and demographic decline of the places that still rely on a relatively strong social capital that is behind the rise of populism in the US. Strong, but declining communities in parts of the American Rustbelt, the Great Plains, and elsewhere, reacted at the ballot box to being ignored, neglected and being left-behind.

The results of the analysis show that increases in populist vote in the US are fundamentally driven by the economic and demographic decline of strongly cohesive midtown and rural America. These places still have greater levels of social capital than more dynamic and unequal areas of the US. This social capital has played a role in the swing of votes within communities driven by a growing feeling of frustration, increasingly known as the rising geography of discontent (McCann, 2020) or the politics of resentment (Cramer, 2016). In small cities and

rural areas of the US, scattered predominantly across the Rustbelt and the Great Plains, the rise in populist vote represents a reaction of strong communities in which individual losses are identified with collective losses. These so-called 'places that don't matter' (Rodríguez-Pose, 2018) have had enough of seeing their people leave and their jobs go and have used the ballot box to exact revenge on a system they consider offers little to them. By contrast, the more dynamic, mainly urban, areas of the US, where society is often less cohesive, where there is less social capital and where interpersonal inequalities are significantly higher, have, for the moment, shunned the calls of populism.

We argue that our results have implications beyond the United States. In particular, work across Europe, including studies considering Brexit (e.g., Carreras et al., 2019; Lee et al., 2018) and Euroscepticism more generally (Dijkstra et al., 2020), have highlighted the importance of long-term decline in explaining the growth in populism. Yet the focus has tended to be on income and industrial decline, rather than employment and population decline, as a cause. The decline of previously tight-knit communities has been underplayed in this literature, but our results provide an important justification to investigate whether they can be generalised outside the United States.

The paper is structured as follows. The next section studies the rise of Trumpism in the US. This is followed by a section looking at explanations for the growth of the Trump vote, focusing, in particular, on social capital, interpersonal inequality, and long-term economic and demographic decline. The methods and data used in the analysis are presented in the ensuing section, which is followed by the econometric analysis. The main conclusions of the study are put forward in the final section.

The rise of populism in the US

On 8 November 2016, Donald Trump was elected president of the US. Trump, a

businessman with limited previous political experience, managed against the odds first to secure the Republican Party nomination and then the presidency on a political platform with strong nationalist and authoritarian populist tendencies (Norris and Inglehart, 2019).

Trump's election was achieved on the wings of winning the electoral votes of crucial swing states, such as Pennsylvania, Ohio, Michigan and Wisconsin. In these states, like very much everywhere else in the US, the votes for the Democratic candidate, Hillary Clinton, were geographically concentrated in the larger cities. Clinton triumphed in cities like Philadelphia, Pittsburgh, Columbus, Cincinnati, Cleveland, Detroit, Milwaukee and Madison, and took some university towns in Ohio and Pennsylvania. The suburbs, towns and rural areas, by contrast, provided fundamental support for Donald Trump (Rodden, 2019).

Figure 1 shows the Trump margin, the swing in the share of votes towards the Republican Party between the 2012 presidential election, when Mitt Romney was the Republican presidential candidate, and the 2016 election. The Trump margin is highest in most of the mid-Atlantic, Midwest, and Great Plains states. The greatest swing took place in an arch surrounding the Great Lakes, drawing a semicircle expanding from northern Maine in the East to north-eastern Minnesota in the West (Figure 1).

The geography of the Trump margin changed relatively little in the 2020 election (Figure 2). Despite losing the election to Joe Biden, Donald Trump increased his margin relative to the votes obtained by Mitt Romney in 2012 across many rural and small-town counties where he had already prevailed four years earlier. He also managed to make forays into territories traditionally relatively hostile to the Republican Party, such as southern Texas and parts of New Mexico (Figure 1). However, the main geographical traits of the 2016 election remained untouched in November 2020. The Trump margin was, once again, highest in rural and small-town

communities around the Great Lakes, the Midwest and the Great Plains.

In contrast, Donald Trump attracted less votes along both coasts and in large urban agglomerations everywhere in the US (Figure 1).

Possible explanations for the rise of populism

Why did Donald Trump get elected in 2016? Why did he almost get re-elected in 2020? What are the reasons behind the rise of authoritarian populism in the US?

The rise of Trumpism in the US has coincided with that of forms of authoritarian populism in other western democracies. Especially in the second half of the 2010s, researchers have tried to investigate the causes of populism from different perspectives. The main divide in the studies of populism has been between those focusing on cultural parameters versus those emphasising economic explanations.

Those examining culture and values have centred their explanations around the role of values (Norris and Inglehart, 2019). Citizens embracing populism are those that feel ill at ease with what they increasingly regard as a different society from the one they grew up in or with the image of society transmitted to them by their parents and family. These citizens generally regard globalisation, migration and multiculturalism as key factors behind the rise of economic (but also cultural and identity) insecurities (Norris and Inglehart, 2019; Salmela and von Scheve, 2017). The change in cultural values threatens their identity and undermines family and religious traditions, transforming the environment they live in into one they no longer feel comfortable with (Norris and Inglehart, 2019). Gradually, this insecurity has morphed into anger and resentment towards a system that, in their view, no longer values them (Salmela and von Scheve, 2017).

Economic explanations revolve around the economic insecurity brewed by deregulation and globalisation (Guiso et al., 2017). Factors

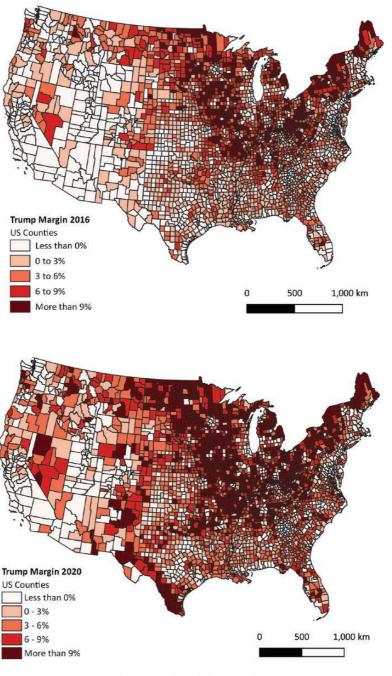


Figure 1. The 'Trump margin' in the 2016 and 2020 presidential elections. The 'Trump Margin' represents the difference in the share of voter support for Donald Trump in the 2016 or 2020 presidential election relative to that of the previous Republican candidate, Mitt Romney, in 2012.

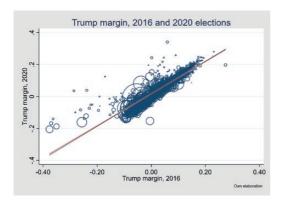


Figure 2. Correlation between the 'Trump margin' in the 2016 and 2020 presidential elections.

such as the openness to trade and the exposure to Chinese goods (Autor et al., 2013, 2016; Colantone and Stanig, 2018) rank high in this strand of research. Recent economic transformations are exploited by populists, invoking protectionism while stoking economic nationalism, such as in Donald Trump's 'Make America great again' 2016 campaign slogan. Post-financial crisis austerity has also been considered a driver of discontent (Gray and Barford, 2018).

Cultural and economic transformations are causing rising resentment with a system, which is increasingly reflected in the electoral ballot. Voters supporting populist options are both swayed by their individual characteristics, such as age, race, education, exposure to new technologies, health, work status or welfare dependency, as well as by the conditions of the places where they live (Alabrese et al., 2019).

At the intersection between culture and economics, two factors were signalled by Putnam as the main risks for American democracy. Social capital, as 'the performance of [...] democratic institutions depends in measurable ways upon social capital' (Putnam, 2000: 349), and interpersonal inequality and the increasing polarisation of American society.

Putnam argued these trends went hand in hand and reinforced one another (Putnam, 2000: 359): 'the last third of the twentieth century was a time of growing inequality and

eroding social capital. By the end of the twentieth century, the gap between rich and poor in the United States had been increasing for nearly three decades, the longest sustained increase in inequality in at least a century, coupled with the first sustained decline in social capital.

In the next subsections, we look at the potential role of both factors in the rise of populism, as well as that of long-term economic and demographic decline as a possible alternative.

Social capital as a driver of populism

Social capital has become one of the dominant concepts in the social sciences. The concept draws on a longstanding body of research, which suggests that social networks matter for all sorts of social and economic outcomes. Coleman (1988) defined social capital as a resource considering (a) obligations and expectations, (b) information channels and (c) social norms. These three aspects of social relationships reduce the coordination costs of shared action and improve outcomes, moving away from a static view of social relations and economic activity as being about individualised actors, towards a view that economic activities are relational rather than simply transactional (Rodríguez-Pose and Storper, 2006). Putnam took on this concept and defined it as 'the features of social lifenetworks, norms and trust—that enable participants to act together more effectively to pursue shared objectives' (Putnam, 1995: 664).

Most views of social capital consider it a force for good. In his work on the strength of weak ties, Granovetter (1973) showed the importance of social relations in enhancing economic outcomes, while Putnam (2000: 394) indicated that social capital 'strengthens our better, more expansive selves'.

Hence, the long-term decline of social capital in the US posed a serious threat to American society and its democracy, as it pushes citizens to free-ride 'by neglecting the myriad civic duties that allow [...] democracy to work' (Putnam, 2000: 349).

However, there are also longstanding concerns that it can have negative consequences. Olson (1965) viewed associational behaviour as lapsing into special interest groups. Overall, closed networks may enable the development of social capital, but they can also allow the development of group-think and incentives to engage in factional behaviour rather than in the general interest (Rodríguez-Pose and Storper, 2006) and prevent the progress of new ideas and social change (Coleman, 1988). In short, a tight-knit community can entrench the 'forces of tradition' and restrict social change (Farole et al., 2011: 68).

In terms of how social capital can affect voting behaviour, social capital is often seen as a pillar of a functioning democracy, something which goes back to Alexander de Tocqueville and his argument that civic association underpinned the US democratic model. Similarly, Putnam (1993) argues that the lack of adequate social capital in southern Italy undermined democracy and legitimate political representation. His arguments for the US are that declining social capital not only depresses civic engagement and political participation but that it also destroys connectedness and trust. The increasingly empty public forums that became the norm in the last third of the 20th century represented a threat to American democracy (Putnam, 2000: 412).

In this respect, social capital can be considered as a form of protection against populism or demagoguery. Pre-dating the post-crisis resurgence of populism, Fieschi and Haywood (2004) indicated that a lack of trust in political institutions could fuel populism. Both Putnam (1993; 2000) and Fieschi and Haywood (2004) viewed social capital as essential for a healthy democracy and having a purely negative impact on populism (i.e., where there is greater trust, political relationships are healthier and more mutually respectful, and so populists are less able to blame elites).

But this positive view of social capital has, more recently, also been challenged. Satyanath et al. (2017), for example, showed that German

states with higher levels of social capital, proxied by associational behaviour, facilitated a rapid expansion of Nazi ideas and, in turn, Hitler's accession to the Chancellery through higher shares of votes for the Nazi party. The presence of large and dense networks involving high levels of trust expedited a swift flow of information and a more rapid exposure to Nazi party propaganda.

Interpersonal inequality and populism

Putnam (2000) saw rising interpersonal inequality as the other main risk for American democracy. For him, the increase in interpersonal inequality and the decline of social capital were two sides of the same coin. On the one hand, the rise in inequality of the last third of the 20th century (Katz and Murphy, 1992) disrupted participation and reduced civic engagement. On the other, the decline in social capital accelerated the disintegration of American communities and eased the implementation of policies and the passing of legislation that fermented greater inequality. This process also had a geographical component as 'the American states with the highest levels of social capital are precisely the states most characterised by economic and civic equality' (Putnam, 2000: 359).

This view of interpersonal inequality as a threat to democracy and, therefore, a driver of populism has been shared by many economists who have examined the roots of the recent rise of authoritarian populism in developed countries. The rise in wealth polarisation in American society, as well as elsewhere in the developed world, is a fundamental factor for the increasing support of extreme antisystem options at the ballot box. Economic transformations in recent decades, and, above all, globalisation and automation, have driven 'multiple, partially overlapping wedges in society' (Rodrik, 2018: 23). One of these wedges concerns income and wages. The economic system has been leaving increasing shares of the population behind, in conditions that are financially insecure (Eichengreen, 2018; Guiso

et al., 2017). The concentration of wealth in a dwindling number of hands (Milanovic, 2016; Piketty and Saez, 2014)—the top 1% (Dorling, 2019) — and the parallel rise in the people at risk of poverty in developed countries (O'Connor, 2017; Rodrik, 2018) is considered tainted with a stigma of unfairness (Rodrik, 2018: 23). Citizens have come to believe that the growing wealth of the elites has been earned unfairly and, consequently, the tolerance towards inequality has decreased (Pastor and Veronesi, 2018). Hence, interpersonal inequality, often confounded with economic unfairness (Starmans et al., 2017), is, from this perspective, pushing voters towards illiberal and anti-system parties at the ballot box. Inequality is perceived to drive a reaction against the status quo, resulting in an erosion of democratic institutions and leading to nativism and plutocracy (Milanovic, 2016).

For Putnam (2000: 359) 'there is every reason to think that the twin master trends of our time—less equality, less engagement—reinforce one another'. Thus, fighting the decline of social capital is also a way to prevent the rise of inequality and vice versa. It is also the best way to combat the challenges besieging American democracy.

The role of long-term economic decline

Putnam's work is about all sorts of decline. From that in civic engagement or in political participation to declines in bowling or card playing. All these declines are meticulously documented in *Bowling alone*. Yet, there is one type of decline that is conspicuously absent from Putnam's (2000) analysis: that of small-town and rural America. Similarly, the growth of territorial inequalities and the rising geographical polarisation in the US does not feature prominently in Putnam's work.

However, the demographic and economic decline of small-town and rural America has been documented for quite some time (e.g., Fuguitt et al., 1989; Johnson, 2006). Small towns and large swaths of rural areas have been losing population and jobs throughout the second

half of the 20th and the beginning of the 21st century. The decline of these areas has been matched by the evolution of many large cities, such as Detroit, Cleveland, Buffalo, Milwaukee or Toledo, once among the most dynamic industrial hubs in the US (Hartt, 2018). Many of these cities articulated, and still articulate, large hinterlands in 'Rustbelt' states.

Such decline has had important implications for social capital. According to Putnam (2000: 207), 'the decline in social connectedness over the last third of the twentieth century might be attributable to the continuing eclipse of smalltown America'. This is because small-town and rural America have for long been the centres of civic engagement. In these areas, people have been and remain community-oriented (Wuthnow, 2019: 4). During most of America's history this feeling of community, widespread across the whole of the US, was regarded as a force for good. 'Residents of small towns and rural areas are more altruistic, honest and trusting than other Americans', noted Putnam (2000: 205). They are viewed as deeply proud, caring about their communities and wanting the best for them (Wuthnow, 2019). Communities with a better endowment of social capital have been perceived as better able to cope with all sorts of economic and social challenges (Rupasingha et al., 2006).

However, when these communities suffer long-term population and economic decline and when the way of life that created and sustained the feeling of community ebbs away (Rodríguez-Pose, 2018; Wuthnow, 2019),2 the very social capital behind the cohesiveness and former dynamism of these areas can also channel the growing anger and resentment felt by those being left behind. When the feeling of neglect becomes widespread, when there is growing resentment about the rising economic gulf between large cities and small communities (Cramer, 2016: 83), social capital at a local scale can become the mechanism to diffuse that anger and outrage at a system they feel no longer represents and serves them. Areas with a strong social capital develop a consciousness that helps shape their political views (Cramer, 2016) and this consciousness is inherently related to place. Locals concerned about the many problems afflicting their communities, from population loss, brain drain and ageing to social disintegration and increasing drug addiction, feel that their plights are ignored by the federal government (Wuthnow, 2019) and can react collectively at the ballot box. In this respect 'place matters because it functions as a lens through which people interpret politics' (Cramer, 2016: 12). This consciousness is both rooted in place and class, but also 'infused with a sense of distributive injustice' (Cramer, 2016: 12). And it may also be the mechanism that feeds the increasing call for attention of places that have seen far better times, have been devastated by economic processes such as globalisation or automation and where people are becoming effectively stuck because of lack of capacity and/or opportunities for mobility (Rodríguez-Pose, 2018: 202). These processes have contributed to render their economies redundant and, often, undermine the self-esteem and sense of purpose of many local dwellers. Such consciousness is contributing to spread out a geography of discontent (Dijkstra et al., 2020; McCann, 2020) and a politics of resentment (Cramer, 2016) to areas that have had a rough ride linked to both economic and cultural transformations and have seen their friends and neighbours leave, their jobs dwindle, and their services gradually disappear (Collantes and Pinilla, 2019; Guilluy, 2019). Social capital can, in this respect, provide the vehicle for this anger to come out into the open at the ballot box (Rodríguez-Pose, 2018) or, increasingly, through rebellion and revolt (Guilluv, 2019).

Bringing together social capital, inequality, and demographic and economic decline

What can be expected from the combination of dwindling social capital, rising inequality, and the demographic and economic decline of many cities, small towns, and rural areas in the US? Depending on the perspective adopted, two potential outcomes can emerge.

On the one hand, as posited by Putnam (2000), the threats posed by populist tendencies to American democracy could be addressed by redressing the decline of social capital and the increase in inequality. Anger at the system would, therefore, be more prevalent in those places where there is a combination of high inequality and low social capital. That is, predominantly, in large American cities. In these places 'efforts to strengthen social capital should go hand in hand with efforts to increase equality' (Putnam, 2000: 359).

On the other, remnants of strong social capital that foster a pervasive consciousness within declining cities, especially in small towns and rural areas across the US, could have served as a means to channel the growing anger of long-term decline to the ballot box in numbers and ways that would be impossible in places with lower social capital stock.

The evidence of the 2016 and 2020 presidential elections points to the latter explanation. The demographically and economically more dynamic, mainly urban areas in the US, where society is less cohesive, but where interpersonal inequalities are significantly higher, shunned the calls of populism and voted in large numbers for the Democratic candidates. By contrast, many long-term declining communities with strong social capital embraced Donald Trump in far greater numbers than they had supported Mitt Romney, a far more mainstream Republican presidential candidate, in 2012.

Hence, in this paper, we will argue that the rise of populism in the US, as proxied by the swing to Donald Trump, is not related, as feared by Putnam (2000), to low levels of social capital, high interpersonal inequality, or their combination, but mainly to long-term economic and demographic decline. We will also argue that strong social capital, civic engagement and

cohesiveness may have contributed to the revenge at the ballot box of places left behind (Wuthnow, 2019) that have felt neglected and snubbed for a considerable amount of time (Cramer, 2016; McCann, 2020). Their strong social identity and local consciousness—in other words, their social capital—may have expedited the rise of Trumpism in ways that would have been impossible in the most dynamic US cities and towns. This form of American populism will thus be mainly driven by the long-term economic and demographic decline of the strong communities that built America, while the rise of interpersonal inequality, something that could generate future conflict, is, for the moment, not associated with populism.

Model and data

Model

In order to demonstrate that:

- (a) Economic and demographic decline are fundamental factors in the rise of the Trump vote and that this process has become exacerbated in the tightly-knit communities with strong social capital that have witnessed an erosion of their relevance:
- (b) This process is not limited to the aftermath of the crisis, but goes back a long way, with roots that can be traced to, at least, the 1970s; and
- (c) Trumpism is more connected with long-term decline than with local interpersonal inequality, which tends to be far higher outside those tightly-knit communities;

we will analyse the swing of votes to the Republican Party between the 2012, on the one hand, and the 2016 and 2020 presidential elections—the Trump margin—on the other and regress it on the three factors that might

have driven the surge in vote for Trump: social capital, interpersonal inequality, and economic and demographic decline. In view of the theoretical framework developed above, we will also look at the interactions between those factors, as the Trump vote could have increased in a) those places having suffered a long-term decline that are more unequal; in b) places with high social capital that are more unequal; and c) in places having suffered a long-term decline, with a strong level of social capital.

The model adopts the following form:

 $TM_{c,20x-2012} = \alpha + \beta_1$ Income $pc_{c,2016} + \beta_2$ Inequality_{c,2016} $+\beta_3$ Social Capital_{c,2016} $+\beta_4$ Economic

& Demographic Change_{c,2016-t} +
$$\gamma_1 \bar{X}_{c,t} + \nu_s + \varepsilon_c$$
 (1)

where,

 $TM_{c, 20xx-2012}$ represents the Trump margin, that is the change in the share of the vote between Donald Trump in 2016 or 2020 and Mitt Romney in 2012;

Income $pc_{c,2016}$ denotes the income per capita in a county in 2016:

*Inequality*_{c,2016} is a measure of income inequality within a county in 2016;

Social Capital $_{c,2016}$ depicts the level of social capital in a county in 2016;

Economic & Demographic Change_{c,2016-t} indicates changes in employment, population, average earnings, and average wages in a given county between 2016 and any year marking the start of a decade, going back to 1970;

 $\bar{X}_{c,t}$ is a vector of other variables that could have affected a shift in the vote for Donald Trump. These include variables that have been identified in the scholarly literature as factors behind the rise in Trump and/or populist vote, including population density, levels of unemployment, education, the racial composition, the sex ratio, the age structure, the share of married adults, or the local impact of imports from China at the county level;

finally,

 v_s is a state – level fixed – effect, while ε_c denotes the error term.

Data

Geographical units

The analysis is conducted at county level. This approach allows us to investigate very long-term impacts on local areas in a consistent way. However, one critique of using counties as our unit of analysis is the ecological fallacy, as we are generalising from the individual to the county level. This is unlikely to be a major problem here, however, as studies show that local context is an important determinant of individual attitudes (e.g., Reeves and Gimpel, 2012).3 As the data are drawn from multiple sources and cover the last five decades, there was a need for some matching to reflect changes in county boundaries over the period of analysis. The data have, therefore, been levelled at the county geographical division used by the Bureau of Economic Analysis (BEA) in 2017. As county boundaries underwent extensive changes, particularly in the state of Virginia, some modifications have been included. In the case of Virginia 51 counties in the state have been assembled into 23 'county compounds', or county-equivalents. Alaska, which also underwent considerable modification in local boundaries, is excluded from the analysis. In the rest of the US, county adjustments are either inexistent or very minor. 3067 of the 3143 county or county-equivalents across the US are included in the analysis.4

Dependent variable and independent variables of interest

The dependent variable in our model is the 'Trump Margin' (Figure 1), which represents the difference in the share of voter support for Donald Trump in the 2016 or 2020 presidential election relative to that of the previous Republican candidate, Mitt Romney, in 2012. It uses data drawn from the MIT Election Data and Science Lab for 2012 and 2016 and from McGovern et al (2020) for 2020. Following Goetz et al. (2019) and Agnew and Shin (2019), we use the difference

in share instead of Trump's overall share of votes, as we deem that this margin better signifies the increase in populist vote between both elections.⁵

The three main independent variables of interest depict (following the theoretical discussion above) social capital, interpersonal inequality and economic and demographic decline.

The measure for social capital is based on an update by researchers at Penn State for the year 2014 of Rupasingha's et al. (2006) index. Rupasingha et al. (2006) created—inspired by Putnam's (1993, 2000) concept of civic engagement and using principal component analysis—a social capital index at county level for the US including four key components. These were: a) the number of non-profit organisations in a county, excluding those with an international approach; b) the census response rates in 2010; c) voter turnout in the 2012 presidential election and d) a number of associational indicators, including bowling centres, business, civic and social associations, golf courses and country clubs, labour, professional, religious and political organisations, fitness and recreational sports centres and sports teams and clubs, with all these factors aggregated and divided by population. The four factors included in the index were standardised. The first principal component is considered as the index of social capital.

Mapping this index at county level provides a very uneven geography of social capital across the US. The highest levels of social capital were concentrated around the Midwest and, especially, the Great Plains states. Both Dakotas, Iowa, Kansas, Minnesota, Montana, Nebraska and Wyoming boasted the highest level of social capital. Social capital was also high in the northwest (Oregon and Washington state) as well as in some areas around the Great Lakes, such as Wisconsin, rural Illinois, Ohio, eastern Pennsylvania and parts of New England. Social capital was, by contrast, significantly weaker in the South, particularly in Kentucky and

Tennessee, and in some Mountain states, such as Arizona, Nevada and Utah (Figure 3).

The second independent variable of interest, *Interpersonal inequality*, is based on data drawn from the 2013–2017 5-year American Community Survey (ACS). At the core of the analysis is the 2016 county-level Gini index of incomes in a county. Two alternative measures are considered for robustness. These are the share of the population in the county in the top income quintile and that in the top 5% of income.

Income inequality in the US is highest in the Deep South, particularly in states such as Alabama, Arkansas, Louisiana, Mississippi, South Carolina and eastern Kentucky, as well as in the largest urban agglomerations, such as New York City, Los Angeles, Chicago, Houston, Miami, Detroit and the Bay Area (Figure 4). The lowest differences in income inequality are found in Midwestern states, and mainly in small-town and rural communities in Illinois, Indiana, Iowa, Missouri, Ohio and Wisconsin, as well as in some parts of

the Mountain states such as Nevada, Utah or Wyoming (Figure 4).

The third and final independent variable of interest is Economic and demographic decline. In the econometric analysis, we use four different proxies: three for economic change (employment change, change in average earnings per job, and change in average wages and salary) and population change as a proxy for demographic change. The benchmark measure of change at the county level is employment change between 1980 and 2016. However, in successive parts of the analysis all four economic and demographic change indicators are considered, covering, by decade, the period between 1970 and 2016. The data for 2016 are drawn from the 2013-2017 5-year ACS. For earlier years, we resort to Bureau of Economic Analysis data. To ensure a normal distribution of residuals, all change variables are transformed logarithmically.

Figure 5 provides an indication of economic change across counties in the US. It represents changes in employment between 1980 and 2016.

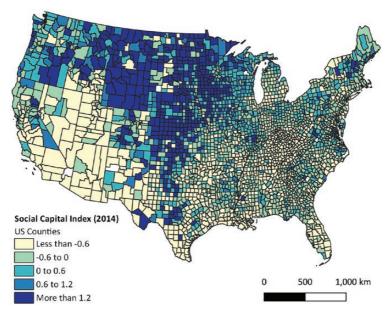


Figure 3. Social capital across the US in 2014.

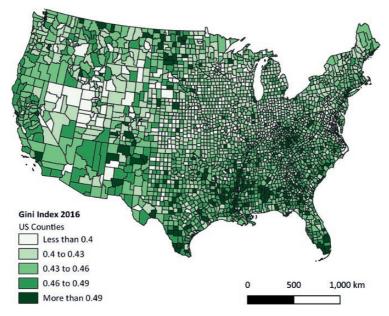


Figure 4. *Income inequality across counties in the US (Gini coefficient, 2017).*

As expected, the biggest growth in employment over that period of 36 years took place along the Pacific coast, in the north-east urban corridor, and in southern Florida. The lowest levels of employment growth occurred in the Great Plains states, along a strip running from East Texas in the south to North Dakota in the north (Figure 4). Many areas south of the Great Lakes and in the South have also performed relatively badly in employment terms. However, all is not gloom around the Great Lakes, as the area between Chicago and Milwaukee witnessed considerable growth in employment, as did most of the counties on the shores of Lake Erie.

Control variables

In addition, several control variables, representative of factors that have been associated with the rise of populism in the US and elsewhere, are included in the analysis. First, we consider income per capita in 2016, as variations in the territorial levels of wealth have been related to populist vote. Population density has been highlighted by certain

authors (e.g., Rodden, 2019) as a driver of populism. Traditional parties, and mainly those of the left, are increasingly struggling in suburbs and rural areas of the US (Rodden, 2019). Population density at the county level is represented by its value in 2016. Unemployment is frequently regarded as another determinant linked to the rise of discontent and populism (Algan et al., 2017; Guriev, 2018). We control for the unemployment rate at the county level in 2016. Education is also a prominent factor behind the rise in antisystem voting. Low levels of education have been seen to be crucial for Brexit, the election of Donald Trump and the rise of populist alternatives elsewhere (e.g., Essletzbichler et al., 2018; Goodwin and Heath, 2016; Sides et al., 2017). We, therefore, use an indicator of the percentage of adults with higher education in each county in 2016. The racial dimension has been recurrent in the analysis of the outcome of the 2016 US presidential elections, with some accounts highlighting that the role of race and racial attitudes may

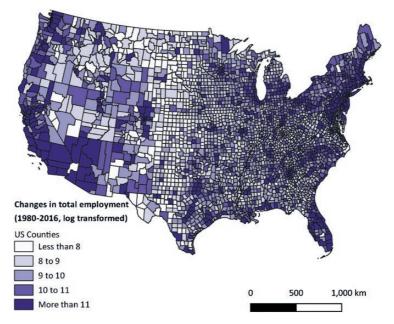


Figure 5. Employment change (1980–2016) across counties in the US.

be more important than economic factors (e.g., Morgan and Lee, 2018; Reny et al., 2019; Sides et al., 2017). We control for the share of black population in 2016 in US counties and, in alternative specifications, for the share of whites in that year. Demographic variables have also featured prominently (e.g., Goodwin and Heath, 2016). We include three such variables: the sex ratio of the population, the young-age dependency ratio and the share of married adults. Finally, the 'China shock' is often signalled as a trigger of discontent at the ballot box (Autor et al., 2016). We, therefore, include a measure of imports from China at county level.

A list of the variables in the analysis, together with their definitions and sources, is included in Supplementary Table A1 in the Supplementary Appendix.

Descriptive analysis

What is the connection between the dependent variable (the Trump margin) and the

independent variables of interest? Plotting the correlation between the Trump margin in the 2016 and 2020 US presidential elections and the three independent variables of interest reveals that the correlation between social capital, inequality and employment change since 1980, on the one hand, and the Trump margin, on the other, is, at best, tenuous. The strongest correlation is between employment change and the swing in votes towards Donald Trump. Counties with a greater decline in employment over the period of analysis supported Donald Trump in far greater shares than they supported Mitt Romney in 2012. The link between interpersonal inequality and the increase in the Republican vote is inexistent, while places with a higher social capital 2014 showed marginally higher shifts in votes towards Donald Trump (Figure 6).

The correlations among the independent variables of interest are similarly weak. There is no link between inequality and changes in employment, while counties with higher levels of social capital have, on average, slightly lower

interpersonal inequality and witness marginally lower employment growth since 1980 (Figure 7). The link between county size and any of the correlations is highly imperfect, although larger counties are somewhat more unequal, have lower social capital, and experience, with notable exceptions, greater employment growth (Figure 7).

Econometric analysis

Basic model

The question is whether these relationships stand when all these factors are included together with additional controls in a regression analysis. The results of regressing model (1), using simple ordinary least squares (OLS) and including state fixed-effects, are presented in Table 1. Regressions 1 through 5 report the estimation for the 2016 election, while Regression 6 does it for the 2020 election. We run both elections separately as the conditions of both elections were very

different: in 2016 Trump voters were electing an outsider with a limited track record in politics, while in 2020 they were voting for an incumbent president.

The results highlight that, once the income per capita of the different counties in the US and the conditions of their state are controlled for, interpersonal inequality, long-term employment change and differences in social capital across US counties are connected to a swing towards Donald Trump in the 2016 presidential election (Table 1, Regression 4).

However, this connection is not always in the direction expected by Putnam (2000) in Bowling alone. The combination of social capital and lower inequality as a protector of American democracy is not discernible. While richer counties shifted towards Trump's populist positions in lower numbers than poorer counties both in 2016 and 2020, more unequal areas of the country were less swayed by Trump's brand of populism. By contrast, places with greater civic engagement and a stronger social capital opted in larger numbers for the

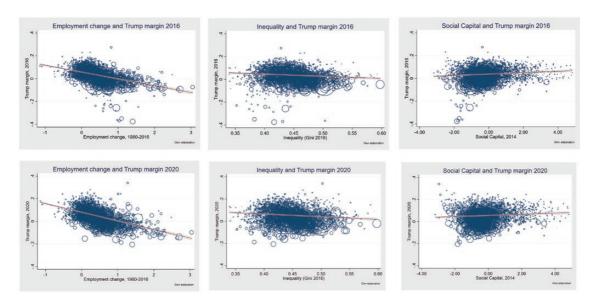


Figure 6. Scatterplots of the link between the dependent and the independent variables of interest. Note: the population of the county is represented by the size of the circle.

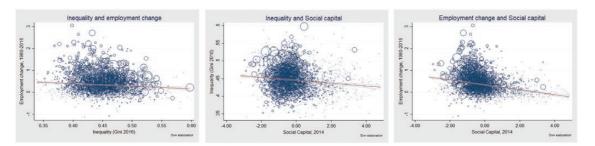


Figure 7. Scatterplots of the link among the independent variables of interest. Note: the population of the county is represented by the size of the circle.

Table 1. Basic model.

		2020 Election					
Dependent variable:	(1)	(2)	(3)	(4)	(5)	(6)	
Trump margin	OLS	OLS	OLS	OLS	OLS	OLS	
Income per capita (2016)	-0.110***	-0.085***	-0.121***	-0.090***	-0.009	-0.024***	
Inequality (Gini 2016)	(0.005) -0.121*** (0.026)	(0.005)	(0.005)	(0.005) -0.191*** (0.026)	(0.007) -0.055** (0.023)	(0.007) -0.022 (0.029)	
Employment change (1980–2016)	(0.020)	-0.033***		-0.032***	-0.012***	-0.025***	
Social capital (2014)		(0.002)	0.010***	(0.002) 0.005***	(0.002) 0.003***	(0.003) 0.001	
Density (2016)			(0.001)	(0.001)	(0.001) -0.000**	(0.001) 0.000	
Unemployment rate (2016)					(0.000)	(0.000) -0.001	
Education (2016)					(0.001) -0.003***	(0.001) -0.004***	
Share of black population (2016)					(0.000) -0.001***	(0.000) -0.001***	
Sex ratio, males (2016)					(0.000) -0.116***	(0.000) -0.043	
Age dependency, young (2016)					(0.030) -0.001***	(0.034) -0.001***	
Share married (2016)					(0.000) -0.001***	(0.000) -0.001***	
Imports from China (1900–2007)					(0.000) 0.001** (0.000)	(0.000) 0.001* (0.000)	
State FE	YES	YES	YES	YES	YES	YES	
Observations	3067	3067	3067	3067	3066	3066	
R^2	0.580	0.621	0.596	0.636	0.738	0.715	
Adjusted R^2	0.573	0.615	0.589	0.629	0.732	0.709	

Robust standard errors in parentheses.

more extreme option in 2016, although the connection is not significant in the 2020 election, once other control variables are included. Counties that have witnessed considerable destruction of employment since 1980 were also convinced to a greater extent by Trump's discourse than areas that experienced greater job creation (Table 1). These results are robust to including the three independent variables of interest together in the regression (Table 1, Regression 4) and additional controls expected, according to the literature, to affect populist vote (Table 1, Regressions 5 and 6). They are also robust to clustering the standard errors at county level (Supplementary Table A2). The coefficient for inequality, which is significant and negative when all the controls regressed together in the 2016 election (Regression 5), becomes insignificant in the 2020 election (Regression 6). In 2016 citizens living in the more unequal counties of the US were far less inclined to swing towards Donald Trump, but this relationship became weaker four years later.6

The coefficients for the control variables are generally in line with expectations. More densely populated counties, counties with a higher share of university graduates, those with a higher share of black population, those less affected by imports from China, and those with a younger population swung less to Trump (Table 1). The unemployment rate yields insignificant coefficients in both elections, while the increase of support for Donald Trump is higher in places with a lower share of married adults.⁷

These results are robust to changing the share of black population in a county by that of whites (Supplementary Table A5), with counties with a greater share of white population swinging towards Donald Trump, and to changes in the measurement of inequality at the county level. Counties with a greater percentage of people in the top income quintile (Supplementary Table A6) and those with a higher proportion of individuals in the top

5% of the income distribution (Supplementary Table A6) had a lower Trump margin in 2016, but not in the 2020 elections.

The introduction of interactions between the independent variables of interest barely alters the results emanating from the basic model. Changes in employment since 1980 and all the control variables, including income per capita at the county level, yield the same sign in the coefficients and similar levels of significance. Once again, counties that have seen a greater employment decline put more trust in Donald Trump than they did in Mitt Romney (Table 2). Social capital remains positive and significant, apart from Regression 2, where it becomes insignificant for the 2016 election, and insignificant in 2020. While inequality displays a negative coefficient that is significant for the 2016 election and in 2020, when the interaction between employment change and inequality is considered (Table 2).

The significant interactions are those between employment change and interpersonal inequality in 2016 and 2020 and between employment change and social capital in 2020. In the case of the former, both coefficients are positive and significant, meaning that the swing to Donald Trump was more pronounced not only in poorer counties, in those with lower interpersonal inequalities, and those that had suffered a long-term employment decline, but also in counties where high levels of employment growth were matched by a high degree of interpersonal inequality (Table 2, Regressions 1 and 4). In the case of the latter, citizens living in counties with higher levels of social capital voted less for Trump in 2020, if employment had grown more than elsewhere in the previous 40 years (Table 2, Regression 6).

Different types and time horizons of decline

So far, we have concentrated just on one side of economic and demographic change: employment change since 1980. What happens if we consider

Table 2. Basic model with interactions.

		2016 Election		2020 Election			
Dependent variable:	(1)	(2)	(3)	(4)	(5)	(6)	
Trump margin	OLS	OLS	OLS	OLS	OLS	OLS	
Income per capita (2016)	-0.010	-0.009	-0.009	-0.027***	-0.023***	-0.022***	
	(0.007)	(0.007)	(0.007)	(0.007)	(0.007)	(0.007)	
Inequality (Gini 2016)	-0.081***	-0.055**	-0.055**	-0.097***	-0.021	-0.019	
	(0.025)	(0.024)	(0.024)	(0.030)	(0.029)	(0.030)	
Employment change (1980–2016)	-0.046**	-0.012***	-0.012***	-0.124***	-0.025***	-0.027***	
	(0.021)	(0.002)	(0.002)	(0.028)	(0.003)	(0.003)	
Social capital (2014)	0.003***	-0.003	0.003***	0.001	0.014	0.001	
• , ,	(0.001)	(0.008)	(0.001)	(0.001)	(0.011)	(0.001)	
Int. Inequality-Employment	0.079*	, ,	, , ,	0.228***	· · ·		
1 2 1 2	(0.047)			(0.065)			
Int. Inequality-Social capital	, ,	0.013		,	-0.031		
1 7 1		(0.018)			(0.024)		
Int. Employment-Social capital		,	-0.000		,	-0.005*	
1 3			(0.002)			(0.002)	
Controls	YES	YES	YES	YES	YES	YES	
State FE	YES	YES	YES	YES	YES	YES	
Observations	3066	3066	3066	3066	3066	3066	
R^2	0.738	0.738	0.738	0.717	0.715	0.715	
Adjusted R^2	0.733	0.732	0.732	0.711	0.709	0.710	

Robust standard errors in parentheses.

different types of decline? In Table 3 we take into consideration, not just employment change, but also population change (Regressions 2 and 6), change in average earnings per job (Regressions 3 and 7), and in average wages and salaries (Regressions 4 and 8).

The results indicate that long-term employment and population decline over a period of almost 40 years has been strongly connected with a swing to Donald Trump at the ballot box in both 2016 and 2020 (Table 3, Regressions 1, 2, 5 and 6). Declines in average earnings and in wages and salaries are, in contrast, disconnected from the Trump margin in 2016. By contrast, counties that increase their average earnings per job and average wages and salaries, once other factors are controlled for, swung more towards Trump in 2020. In these counties presence of strong social capital was also linked to

a higher Trump margin (Table 3, Regressions 7 and 8).

These results chime well with the literature highlighting that the rise of populism in the US has more to do with racial issues than individual economic factors (Norris and Inglehart, 2019; Reny et al., 2019) and with a sense of alienation of the white working classes (Cramer, 2016; Morgan and Lee, 2018; Walley, 2017), what Kimmel (2017) calls 'angry white men'. However, they also powerfully relate to the literature that has focused on geographical dimensions and, in particular, with long-term economic decline, mostly in Europe (e.g., Guilluy, 2019; Rodríguez-Pose, 2018) but, increasingly, in the US (e.g., Wuthnow, 2019). However, in contrast to the findings for Europe, where the rise of anti-system voting at the ballot box

^{***}p < 0.01, **p < 0.05, *p < 0.1.

Table 3. Different types of change (1980–2016): employment, population, earnings, wages.

	2016 Election				2020 Election			
Dependent variable:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Trump margin	OLS	OLS	OLS	OLS	OLS	OLS	OLS	OLS
Income per capita (2016)	-0.009	-0.011*	-0.010	-0.010	-0.024***	-0.028***	* -0.030***	* -0.029***
Inequality (Gini 2016)	(0.007) -0.055**	(0.007) -0.068***		(0.007) -0.038*	(0.007) -0.022	(0.007) -0.054*	(0.007) 0.014	(0.007) 0.012
Social capital (2014)	(0.022) 0.003*** (0.001)	(0.023) 0.002** (0.001)	(0.022) 0.004*** (0.001)	(0.022) 0.004*** (0.001)	(0.028) 0.001 (0.001)	(0.028) -0.002* (0.001)	(0.027) 0.004*** (0.001)	(0.027) 0.004*** (0.001)
Density (2016)	-0.000** (0.000)	\ /	-0.000** (0.000)	-0.000** (0.000)	,	0.000*	0.0001)	0.000*
Unemployment rate (2016)	0.000 (0.001)	0.000 (0.001)	0.000 (0.001)	0.000 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)
Education (2016)	-0.003*** (0.000)	* -0.003*** (0.000)	* -0.004*** (0.000)	* -0.004*** (0.000)	* -0.004*** (0.000)	* -0.004*** (0.000)	* -0.005*** (0.000)	* -0.005*** (0.000)
Share of black population (2016)								* -0.001*** (0.000)
Sex ratio, Males (2016)	-0.116*** (0.031)	* -0.108*** (0.030)	* -0.125*** (0.032)	* -0.126*** (0.032)	* -0.043 (0.035)	-0.023 (0.033)	-0.076** (0.038)	-0.086** (0.038)
Age dependency, young (2016)	\ /	* -0.001*** (0.000)	\	\	\	\		* -0.001*** (0.000)
Share married (2016)								* -0.001*** (0.000)
Imports from China (1900–2007)	0.001**	0.001**	0.001**	0.001**	0.001*	0.001**	0.001*	0.001*
Employment change 1980–2016	-0.012** (0.002)	\	(,	(*****)	-0.025*** (0.003)	\	(*****)	(*****)
Population change 1980–2016	, ,	-0.017*** (0.003)	k		, ,	-0.038*** (0.003)	*	
Average earnings per job change 1980–2016			-0.000				0.007**	
Average wages and salaries change 1980–2016			(0.003)	0.000			(0.003)	0.017***
State FE	YES	YES	YES	(0.004) YES	YES	YES	YES	(0.006) YES
Observations R ²	3066 0.738	3066 0.739	3065 0.734	3066 0.734	3066 0.715	3066 0.722	3065 0.703	3066 0.704
Adjusted R ²	0.732	0.734	0.729	0.729	0.709	0.716	0.697	0.698

Robust standard errors in parentheses. ***p < 0.01, **p < 0.05, *p < 0.1.

has been linked to economic and industrial decline, but not to employment and demographic decay (Dijkstra et al., 2020), in the US it is the slow demise of still strong communities that have been losing employment

and population for some time that triggers the reaction at the ballot box to a far greater extent than declines in earnings and salaries.

Once we have established that long-term unemployment and demographic decline

have a powerful connection to Trump's vote margin, the question is whether this association waxes or wanes with time. Table 4 looks at the change in these relationships over time, including the link with changes in average earnings and wages and salaries, since 1970 in ten-year intervals. This implies that the regressions are the same as in Table 3, only substituting the time covered in each of the economic and demographic decline variables. Only the coefficients for these variables are reported, as there are no significant changes in the other coefficients.

The coefficients displayed in Table 4 show that the link between employment and population decline at the county level and Trump's vote margin is not a recent phenomenon. The coefficients for employment and population change are always negative and highly significant, regardless of the period and election considered. Counties that have been shedding employment and losing population since the 1970s have been more inclined to support Donald Trump than they did Mitt Romney in

2012. Having said that, the dimension of the negative coefficients is generally larger for the more recent periods than for longer time spans. The 2008 Great Recession has provided a springboard for the rise of populist discourse and a populist candidate, but the seed of discontent was planted, as indicated by Cramer (2016), quite some time earlier.

Table 4 once again points to the fact that this reaction at the ballot box is more about the long-term decline of communities shedding jobs and people than about the loss of earnings, wages, and salaries. The coefficients for the change in average earnings per job are mostly insignificant. However, it is often the case that counties witnessing a higher increase in wages and salaries swung more towards Donald Trump, particularly in the 2020 election. Hence, 'it is not the very poor that are threatening the political system but the large numbers of still relatively well-off people—often seen as the threatened middle classes-still living relatively comfortable lives but in declining places' (Rodríguez-Pose, 2020: 1–2).

Table 4. The dimension of the connection over time.

	2016 Election				2020 Election				
	Employ- ment change	Population change	Change in average earnings per job	Change in average wages and salary	Employ- ment change	Population change	Change in average earnings per job	Change in average wages and salary	
2010–2016	-0.030***	-0.115***	-0.007	0.013	-0.031***	-0.178***	-0.008	0.015	
	(0.008)	(0.020)	(0.005)	(0.011)	(0.010)	(0.027)	(0.006)	(0.013)	
2000–2016	-0.019***	-0.046***	0.001	0.004	-0.031***	-0.088***	0.008	0.025***	
	(0.004)	(0.007)	(0.004)	(0.006)	(0.006)	(0.008)	(0.005)	(0.008)	
1990-2016	-0.011***	-0.022***	-0.001	0.013**	-0.024***	-0.050***	0.004	0.033***	
	(0.003)	(0.004)	(0.004)	(0.005)	(0.004)	(0.004)	(0.005)	(0.007)	
1980-2016	-0.012***	-0.017***	-0.000	0.000	-0.025***	-0.038***	0.007**	0.017***	
	(0.002)	(0.003)	(0.003)	(0.004)	(0.003)	(0.003)	(0.003)	(0.006)	
1970-2016	-0.009***	-0.009***	-0.005	0.012***	-0.021***	-0.025***	0.003	0.028***	
	(0.002)	(0.002)	(0.004)	(0.004)	(0.002)	(0.002)	(0.004)	(0.005)	

Robust standard errors in parentheses.

^{***}p < 0.01, **p < 0.05, *p < 0.1.

Conclusions

Two decades ago, Putnam (2000) warned that American democracy was at risk from the twin challenges of the decline in civic engagement and social capital on the one hand, and the rise in interpersonal inequality on the other. More Americans bowling alone and engaging to a far lesser extent than before in local communities and an increasingly divided society from an economic perspective represented a twin threat to the democratic institutions that had been built since independence.

Sixteen years later his forecast materialised with the election of Donald Trump, an outsider and political novice with strong populist tendencies, who first stunned the Republican Party elite by securing its presidential nomination, and then went on to beat the Democratic party candidate, Hillary Clinton, in the November 2016 election.

Yet, the election of a candidate that, by shaking the system, has stretched American democracy to the limit, may have had little to do with declining social capital and rising interpersonal inequality and much more with the long-term employment and population decline of many formerly prosperous American communities. These communities are precisely those where social capital—the very form of capital that, according to Putnam (2000), was supposed to provide the glue for America's democratic institutions—has held stronger than elsewhere.

This is what this paper has shown. By combining social capital with interpersonal inequality and long-term economic and demographic decline at county level in the US and linking it to the swing to Donald Trump at the ballot box in the 2016 and 2020 presidential elections, it has revealed that the rise in discontent identified by some scholars (e.g., Cramer, 2016; Kimmel, 2017; Wuthnow, 2019) is at the root of the Trump electoral tsunami. However, this analysis has provided evidence for the deep geographical roots of this phenomenon. It is not

just simply the white working class that is rebelling against the system. There are plenty of white working-class voters on the West Coast, along the eastern megalopolis or in American large cities, as well as in medium-sized cities, towns and rural areas that did not swing and/ or did not vote for Donald Trump. It is middleand working-class individuals, who live in communities that have seen better times and have for long experienced a slow, but relentless employment and population decline, and where social capital has remained relatively strong, that cast the decisive votes to put Donald Trump in office in 2016. The link between social capital and the Trump margin became weaker in the 2020 election when considering population and employment decline, but not when taking into account changes in earnings per job and in wages and salaries. Hence, social capital and local civic engagement may not have acted as the positive forces envisaged by Granovetter (1973) or Putnam (2000), but, in most cases, more in the negative way suggested by Satyanath et al. (2017), through mechanisms possibly linked to local consciousness and identity (Cramer, 2016).

The long-term economic and demographic decline of many tightly-knit American communities has driven the rise of Trumpism. A decline that can be traced back to the last quarter of the 20th century and that has created a malaise that goes well beyond the crisis and that is increasingly manifesting itself at the ballot box. Declining, but still rather cohesive communities with strong social capital are the drivers of this process. In mostly small-town and rural areas of the US, the rise in the populist vote is a consequence of a reaction of communities in which individual losses are strongly identified with collective losses. And social capital may act as one of the transmission mechanisms. Individuals living in these communities know that a loss for one is a loss for all. Therefore, the rise of populism in the US is fundamentally linked to the geography of decline; to places that, despite remaining relatively homogeneous

in terms of interpersonal inequality, have witnessed considerable employment and demographic decay over the long term. The Great Recession of 2008 may have ignited the fuse that resulted in the election of Donald Trump as president, but the discontent has roots that are far deeper.

By contrast, the places with far higher interpersonal inequalities and weaker social capital, mainly the large cities, may be reaching boiling point (as seen in the aftermath of the killing of George Floyd in May 2020) but are not so far those responsible for driving the rise of populism at the ballot box.

The extent to which our results apply beyond the specific case of the United States remains an open question. But there are important parallels with the experience of other countries which suggest that our results may be more generalisable. For example, the Gilets Jaunes movement came from the declining peripheries of rural France; the rise of the Lega across many parts of Italy has been ignited by the long-term stagnation of the tight-knit communities of the formerly highly successful industrial districts in Northern and Central Italy; the Alternative for Germany (AfD) party in Germany comes, in part, from the declining industrial and smalltown communities of Eastern Germany. Yet, while there are studies that consider the impact of long-term decline in many of these places, the extent to which populism in other countries has been driven by closely connected communities facing long-term decline remains an important question for future research.

There is also greater need to know the exact mechanisms through which social capital may contribute to transforming long-term decline into populist votes; more need to analyse, using both in-depth qualitative and quantitative studies, why the long-time brewing geography of discontent in declining small-town and rural America has only come to fruition from a political perspective in recent years. But one thing seems to be increasingly clear. Declining American communities, that have seen better

times, that have been dismissed as 'rust belts', 'red neck areas' or 'flyovers', are no longer bowling alone. They have been golfing with Trump, and will, in all likelihood, continue to play ball with whoever pays attention to their plights and allows them to exact their revenge at the ballot box against what they consider an unfair and harmful system.

Supplementary material

Supplementary material is available at Cambridge Journal of Regions, Economy and Society online.

Endnotes

- ¹ Some recent research (e.g., McQuarrie, 2017; Broz et al., 2021) has, however, stressed the role of the stark growth in American inter-regional disparities, following on the footsteps of earlier work on populism (Ionescu and Gellner, 1969). In the European literature, the geographical roots of populism have often adopted a more prominent role in quantitative research on anti-system voting (e.g., Rodríguez-Pose, 2018; Dijkstra et al., 2020; McCann, 2020).
- ² Similar processes of decline—linked to ignored progress (Guiso et al., 2017), loss of opportunities (Becker et al., 2017; Gidron and Hall, 2017), or status threat (Mutz, 2018)—have been identified as drivers of vote switching in individual-level analyses.
- ³ A second challenge is the Modifiable Areal Unit Problem (MAUP), as our boundaries do not perfectly align with local communities. While we cannot rule this out, counties are normally political units and so our results capture these important political relationships. Another potential problem that needs to be considered when interpreting the results is the large variation in the size of counties.
- ⁴ The boundaries of Alaska's county equivalents (boroughs and census districts) have undergone a considerable transformation, impairing the comparison over time. As Alaska's population represents a mere 0.2 percent of the total US population, its boroughs and census districts, just 1 percent of US counties or equivalent, and the state provides 1.9 percent of presidential electors, the omission of the state is unlikely to cause significant distortions. In the case of the state of Virginia, we follow the geography of the US Bureau

of Economic Analysis (BEA). Five additional counties were omitted because of lack of adequate data. These are: Maui and Kalawao (Hawaii), Broomfield (Colorado), Shawano and Menominee (Wisconsin).

⁵ The swing in the share of votes is preferred to the share of Trump vote. This is because—although the latter indicator has been used by other researchers, such as Fabian et al. (2020), who also use the Trump margin, or Giuliano and Wacziarg (2020)—the Trump margin can be considered as a better indicator of the rise of populism in the US. Trump has been described (e.g., Norris and Inglehart, 2019) as an outsider with an authoritarian populist streak. This pulls him apart from previous Republican presidential candidates (e.g., Mitt Romney, John McCain, George W. Bush, Bob Dole, George Bush), who never made any systematic use of populist rhetoric and tactics. Mitt Romney, in particular, was a mainstream candidate with plenty of political experience within the Republican Party and a proven capacity in deal-making across partisan lines. The Trump share of the vote in 2016 and 2020 is, nevertheless, used as an alternative dependent variable to test the robustness of the results.

⁶ When the dependent variable is changed from the Trump margin to the Trump share of the vote, the results for the three variables of interest do not change (Supplementary Table A3). Only in the case of employment change two of the coefficients (Regressions (4) and (5)) become insignificant. The change in the dependent variable affects to a far greater extent the coefficients of the control variables. Unemployment rate becomes negative and insignificant; the sex ratio coefficient switches to positive and significant; age dependency (young) becomes positive and significant for the 2020 elections: the share of the married population becomes positive and significant; while, finally, imports from China become insignificant. These results give a more conventional picture of places where traditional Republican voters abound: more conservative, with a higher share of married couples with more children and, on the whole, lower unemployment rates. These are also areas that have been less affected by the China shock. Another noteworthy indicator is that the R² declines significantly when the Trump share is considered (without controls) (Regressions (1) through (4) in Supplementary Table A3). This indicates that our independent variables of interest explain a considerably higher share of the Trump margin than of the Trump share, the

latter being mostly explained by the controls. Hence, the results of this analysis point in the direction that the Trump margin may be a better indicator than the Trump share of the rise of illiberal attitudes among the voting population.

⁷ Model (1) is run without electoral turnout, as electoral turnout in 2012 is a component of the social capital index used in the analysis and presidential election turnouts tend to be highly correlated. However and as a robustness check, the analysis is run including voter turnout in the 2016 and 2020 presidential elections (Supplementary Table A4). The inclusion of turnout does not alter the signs and coefficients of our variables of interest or of the control variables. Turnout in itself is connected to a lower Trump margin in the 2016 election and has an insignificant coefficient in the 2020 election.

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