



**To leave or not to leave? Understanding the support for the
United Kingdom membership in the European Union:
Identity, attitudes towards the political system and socio-
economic status**

Journal:	<i>Rationality and Society</i>
Manuscript ID	RSS-19-0031.R2
Manuscript Type:	Original Manuscript
Keywords:	Brexit, Decision model, Classification tree, European integration
Abstract:	<p>This article proposes a decision model of the British support for leaving the European Union (EU) that includes both identity aspirations, attitudes towards the political system and economic interest and test it on the Understanding Society 6th, 7th and 8th surveys. Current studies tend to interpret the British Euroscepticism as a combination of attachment to British identity, lack of economic opportunities and dissatisfaction with the political class. Using this approach where factors are additive, it is not possible to account for the substantial portion of socio-economically advantaged individuals which prefer to leave the EU, and for those who, despite their low attachment to their British identity, the relatively high educational level and satisfaction with domestic democracy, prefer to leave the EU. I use a theoretical approach which considers both economic and cultural considerations are rational considerations and conceptualise their interaction in terms of trade off. I use classification tree analysis to evaluate the relative importance of the main explanatory factors and of their interaction. The results show that the negative evaluation of the political system makes certain groups, which otherwise tend to support European integration, lean towards Euroscepticism. It helps to explain the Euroscepticism of those who are less attached to their British identity and of advantaged classes. The results have also showed that anti-establishment attitudes are not associated with disadvantaged socio-economic groups. The dissatisfaction with domestic democracy is relevant mostly for the advantaged classes, and the lack of political efficacy affects equally the attitudes of advantaged and disadvantaged groups. Last, disadvantaged groups' support for European integration is driven by identity aspirations not by economic interest.</p>

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Abstract

This article proposes a decision model of the British support for leaving the European Union (EU) that includes both identity aspirations, attitudes towards the political system and economic interest and test it on the Understanding Society 6th, 7th and 8th surveys. Current studies tend to interpret the British Euroscepticism as a combination of attachment to British identity, lack of economic opportunities and dissatisfaction with the political class. Using this approach where factors are additive, it is not possible to account for the substantial portion of socio-economically advantaged individuals which prefer to leave the EU, and for those who, despite their low attachment to their British identity, the relatively high educational level and satisfaction with domestic democracy, prefer to leave the EU. I use a theoretical approach which considers both economic and cultural considerations are rational considerations and conceptualise their interaction in terms of trade off. I use classification tree analysis to evaluate the relative importance of the main explanatory factors and of their interaction. The results show that the negative evaluation of the political system makes certain groups, which otherwise tend to support European integration, lean towards Euroscepticism. It helps to explain the Euroscepticism of those who are less attached to their British identity and of advantaged classes. The results have also showed that anti-establishment attitudes are not associated with disadvantaged socio-economic groups. The dissatisfaction with domestic democracy is relevant mostly for the advantaged classes, and the lack of political efficacy affects equally the attitudes of advantaged and disadvantaged groups. Last, disadvantaged groups' support for European integration is driven by identity aspirations not by economic interest.

1. Introduction

This paper analyses the individual and motivational drivers of the support for the departure of the United Kingdom from the EU using data from Understanding Society, which in 2016 – the year of the EU referendum - asked the survey members a question

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3 about the British membership to the EU. 72.2 percent of British voters participated in
4 the referendum and decided with a slight majority (51.9%) to leave the EU. The
5 existing empirical studies on Brexit and support for EU across Europe have used
6 various theories to analyse the support for the EU, yet none has developed an analysis
7 based on rational behaviour. This paper tries to fill this gap by developing a systematic
8 analysis of the attitude towards the EU that hinges on the maximization of cultural and
9 economic goals.
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16 Extant literature shows that both economic and cultural factors are associated with
17 support for leave. The utilitarian, rational-choice approach to explaining the support
18 for leave argues that Euroscepticism and the outcome of Brexit are the consequence
19 of economic grievances among the losers of globalisation and economic integration,
20 who found themselves competing with migrant workers from eastern Europe and with
21 companies using cheaper labour in developing countries. On the other hand, the highly
22 educated, professionals seem to have benefited from market integration and
23 globalisation through the widened trade and travel opportunities, **and are therefore**
24 **inclined to support the United Kingdom's continuing membership of the EU** (Hobolt
25 2016, Hobolt and de Vries 2016, Teney et al. 2014, Kriesi et al. 2014, Azmanova
26 2011). The identity approach argues that European integration erodes national-based
27 identity and generates scepticism among those who are more attached to their
28 national identity (**Carl et al. 2019, Curtice 2017**, Hobolt 2016, Hobolt and de Vries
29 2016, Hooghe and Marks 2005, 2009, Carey 2002). A second type of cultural
30 explanation is that the attitude towards European integration is driven by the strategy
31 of punishing or confirming the political establishment which during the Brexit
32 referendum in general backed 'Remain' (**Fox 2020, Abrams 2018, Iakhnis et al. 2018**,
33 Hobolt 2009, Hug 2002, Franklin 2002, , Franklin et al. 1994, 1995; Reif and Schmitt
34 1980).
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50 **Existing research offers mixed results regarding the relative importance of economic**
51 **and cultural factors (Norris and Inglehart 2018, Hobolt 2016) and fails to account for**
52 **some unexpected trends (Swales 2016). Such trends are** the substantial portion of
53 socio-economically advantaged individuals which prefer to leave the EU, and of those
54 who, despite their low attachment to their British identity, their relatively high
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3 educational level and their satisfaction with domestic democracy, prefer to leave the
4 EU (Swales 2016).
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7 The failure of the current empirical analyses at explaining those major trends and the
8 lack of conclusive evidence regarding the relative importance of cultural and economic
9 factors warrant further research. Current theoretical approaches conceive cultural and
10 economic factors as distinctive forces – one rational and utilitarian and the other one
11 non-utilitarian and cultural – and tend to neglect their interaction (Carl et al. 2019,
12 Curtice 2017, Hobolt 2016, Hobolt and de Vries 2016, Teney et al. 2014, Kriesi et al.
13 2014). Such a framework is not suitable to analyse instances where individuals care
14 about both types of considerations yet have a threshold beyond which economic
15 (cultural) considerations are traded for cultural (economic) considerations. Referring
16 to the unexpected result cited above, socio-economically advantaged individuals tend
17 to support the United Kingdom's membership of the EU, yet when they are very
18 attached to their British identity – i.e. above a given threshold of attachment to British
19 identity - they will have to trade between the two motives. The lack of focus on the
20 interaction and trade-off between cultural and economic motives prevented current
21 research from looking into those unexpected patterns.
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25 To overcome this limitation, this paper proposes to eliminate the separation between
26 utility-based rational considerations and identity-based considerations (Gintis 2016,
27 Kahneman and Tversky 2013, Barberis 2013). Using an extended notion of utility, I
28 include both cultural-based and economic-based motivations as rational
29 considerations and focus on their interaction and trade off. This comprehensive
30 framework provides a flexible way to deal with cases of conflict between identity-based
31 and economic-based considerations. Within an extended notion of utility, individuals
32 with conflicting interests trade between them following specific decision rules.
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36 It is possible that those decision rules will be revealed by analysing the interaction
37 between the diverse motives. This type of analysis aims to identify the threshold value
38 of the motives above which they will cause a reaction in the individuals and influence
39 them to prefer one motive over the other (Gintis 2016, Kahneman and Tversky 2013,
40 Barberis 2013; Kahneman 2011, Cantillo et al. 2006). Alternatively, it is possible that
41 analysing those decision rules will require exploring factors which have been
42 neglected by existing research. Research shows that decision making mechanisms
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3 depend not only on the motivational drivers, but also on the perceived ability to achieve
4 the desired goal (Tutić 2017, Breen and Yaish 2006), including political ones (Gil de
5 Zúñiga et al. 2017, Southwell 2012, Craig 1993). As important as this result is, existing
6 research on the support for EU has neglected this aspect of decision making. To
7 overcome this limitation, the second innovation of this paper is the inclusion of political
8 efficacy in the decision model. Political efficacy captures the perception of having an
9 impact on the government. The feeling of being an active part of the political decision
10 process is distinct from other measures of the perceived quality of the political system
11 which are generally used such as the satisfaction with democracy or political class.
12 The construct has been linked to higher voter turnout (Gil de Zúñiga et al. 2017, Craig
13 1993) and candidate choice (Southwell 2012). Drawing on the idea that those with a
14 higher level of political efficacy are more likely to vote (Gil de Zúñiga et al. 2017,
15 Southwell 2012, Craig 1993), I hypothesise that individuals with a high level of political
16 efficacy are reluctant to take the risky option of leaving the EU because they feel they
17 can make their preferences heard and that the political system is responsive to their
18 interests. Hence, they perceive that there is little incentive to take the Brexit gamble,
19 which entails the risk of facing negative economic consequences, to modify the
20 political system. Conversely, the lack of political efficacy predisposes to rely on
21 exogenous shocks to realise own political aspirations.

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37 The third innovation is the use of good longitudinal measures of income and social
38 class. Current analyses of the individual factors of the support for European
39 integration and Brexit are handicapped by the lack of good measures of income. The
40 controversy regarding the importance of economic circumstances therefore could
41 reflect the varying reliability of the measures of income across studies rather than
42 differences in theoretical approaches. Understanding society has the advantage of
43 containing measures of both political efficacy and income with a breakdown of its main
44 components (benefits, earnings, pensions, etc.).

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52 The paper extends current literature in a fourth way as well. It determines the relative
53 importance of the heterogenous set of motives that individuals consider when
54 expressing their preference for EU. It does this by utilising a technique which is rarely
55 used in social sciences – classification trees. Classification trees are a type of non-
56 parametric regression that help to identify the most important factors in a statistical
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3 model. They are particularly suitable for analysing preferences as they identify the
4 relationships between factors that determine choices that individuals make, starting
5 from the most important factors and moving through various branching points to the
6 more specific factors.
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22 The extant literature finds that both cultural and economic considerations operate in
23 determining the individual support for the EU in Britain and across Europe.
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26 Cultural explanations rest on the notion that the European integration blurs the
27 separation between national identities, which can generate a disorientation among
28 individuals with a stronger attachment to their national identities and hostility towards
29 other cultures. Carl et al. (2019), Curtice (2017), Hobolt (2016) and Carey (2002)
30 showed that individuals with a strong national identity are less supportive of European
31 integration. There is also evidence that Euroscepticism is closely related to negative
32 attitudes towards minority groups and immigrants (Curtice 2017, Henderson 2017,
33 Abrams 2018, Hobolt 2016, Hobolt et al. 2011, De Vreese and Boomgaarden 2005).
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41 The attitude towards European integration is also a second-order reflection of the
42 dissatisfaction with the domestic political class and government. When given the
43 opportunity, such as in EU referendums, people often use their vote as a punishment
44 strategy towards the establishment and the government (Fox 2020, Abrams 2018,
45 Iakhnis et al. 2018, Hobolt 2016, Anderson 2008). Referendums on European
46 integration proposed by the government have been often rejected, particularly when
47 supported by mainstream political parties and experts (Hobolt 2009). Despite the
48 governing conservative party being quite divided in the campaign, all the other major
49 parties in parliament, business interests, trade unions, foreign leaders and
50 international organizations were in favour of remaining in the EU. According to this
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3 perspective, an individual with anti-establishment feelings would have rejected this
4 preference and voted to leave the EU.
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8 The literature postulates that individuals evaluate also the economic consequences of
9 being in the integrated market that the European union created. The argument is that
10 market integration will favour mostly those with higher educational levels and income,
11 **who** are equipped to take advantage of a bigger and more open market. Conversely,
12 market integration will place low educated workers across the integrated market area
13 in competition between each other, exerting a downward pressure on the work
14 conditions and wages of the low educated in more advanced countries. Hence, the
15 highly educated and professionals groups are more likely to support European
16 integration, whilst the low educated to oppose it. The empirical literature provides
17 mixed support to this proposition. Hobolt (2016), using **the pre-referendum survey of**
18 **the British Election Study (BES)**, showed that the young, well-educated and those with
19 higher incomes – the so-called winners of globalisation – are less likely **to report an**
20 **intention to vote for** Brexit. Norris and Inglehart (2018) **used the BES surveys after the**
21 **referendum** and **did** not find any significant association between income, education
22 and occupational variables with the Brexit vote.
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34 Swales (2016) conducted an analysis of the profiles of the voters in the EU referendum
35 using the British Social Attitudes survey and found that the so-called middle-class
36 liberals voted largely for remain. On the opposite end of the spectrum, the
37 economically deprived anti-immigration voted strongly for leaving the EU. However,
38 among the Eurosceptics there were also affluent individuals and older working
39 classes. As Euroscepticism is common among both affluent and deprived groups,
40 those with anti-immigration feelings and those more tolerant, it is not clear whether
41 attitudes or socio-economic are more important in determining the support for EU.
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49 It should also be noted that a positive attitude towards European integration requires
50 an understanding of the mechanisms of the single market and an assessment of its
51 heterogeneous consequences on the population. The development of a European
52 identity requires a high level of political awareness that transcends the domestic
53 borders and relates to an abstract supranational political community. The support for
54 the EU therefore requires well-developed competences in politics and economics,
55 which are generally possessed by those with a degree.
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3. A theoretical framework to understand the attitudes towards European integration

In the proposed decision model, individuals seek to realise both their national identity and economic aspirations. The decision model assumes that individuals are uncertain about the consequences of leaving the single market. As no country up until the British EU referendum left the EU, it is impossible to foresee the possible scenarios of leaving the single market. Therefore, leaving the EU entail a high degree of hazardousness for any individual. The slogans of the leave campaign were more control over immigration – or protectionism – and greater sovereignty for the United Kingdom, while the remainers focused on the economic risks associated with leaving the single market. While the leave campaign was successful in stressing the linkage between leaving the single market and the greater control over immigration, people were less certain regarding the economic consequences of leaving the single market.

The literature focused also on anti-establishment feelings. We know that individuals with anti-establishment feelings tend to oppose European integration as a strategy to punish the predominantly pro-European political class. In the proposed decision model, individuals will consider the trust in political class and domestic democracy to assess whether their aspirations can be realised in the current domestic political system. Should they trust the domestic political system to assist them realising their aspirations, they will be more likely to support the status quo and therefore to prefer to remain in the EU. If, conversely, they hold little trust in the domestic political system, they will be more likely to prefer to leave the current political system to try a new one outside the EU, despite all the uncertainty that it entices.

I also include a novel factor in the analysis – political efficacy. I hypothesise that individuals with a high level of political efficacy believe that they can influence political decisions and therefore will resort on own initiative to realise their aspirations rather than taking the gamble of leaving the EU. Those with low levels political efficacy instead are more likely to resort on exogenous shocks, such as leaving the EU, to realise their unmet aspirations.

Agents will prefer to leave the EU if the post-Brexit expected utility U^p is larger than the status quo utility U^s , $U^p > U^s$.

I assume that leaving the single market implies trade protection and a greater control over immigration, which generates a redistribution between highly educated, high earning workers and low educated, low earning workers. Limiting immigration protects the British workers, and particularly its low educated segment, from the competition with workers from other EU countries. This protection can have the effect of improving the income of the least skilled segments of the labour force in the short term. Conversely, protectionism causes a loss of income in the short term for the highly skilled and educated because this group receives a higher income in a bigger market. I also assume that a greater control over immigration realises the aspirations of those attached to their British identity.

Individuals will support the leave option if the left end side exceeds the right end side in the following inequality.

$$(1) y' + Identity' > y + identity + political\ efficacy + trust\ in\ political\ system$$

where y and $identity$ are respectively the status quo income and identity, y' and $Identity'$ are the expected income and identity in the post-Brexit scenario. Individuals hold beliefs regarding the uncertainty of y' and $Identity'$ (respectively Var^y and Var^I). I do not have the data to model this uncertainty, yet Var^y is expected to be larger than Var^I , which means there is in the population a greater certainty regarding the impact that leaving the EU would have on immigration and independence than on the economy and own financial circumstances. Indeed, the leave campaign was successful in stressing the linkage between leaving the single market and the greater control over immigration. Conversely, people are less certain regarding the economic consequences of leaving the single market and were less persuaded by the Remain campaign's focus on the economic risks.

I expect the support for leaving the EU to be higher among those groups:

- Economically disadvantaged groups, because they have less to lose and are more likely to gain by taking the Brexit gamble. Conversely, advantaged groups can lose income in a post-Brexit scenario and are less likely to take the risk by voting leave.
- Lower levels of trust in domestic democracy to improve own income and realise the desired national identity. If trust in domestic democracy is low, then individuals have an incentive to take the Brexit gamble.
- Lower levels of political efficacy, which rules out the possibility of realising own aspirations using political participation and increases the propensity to take the Brexit gamble.
- Low levels of education, because understanding the consequences of leaving the single market and developing a European identity requires political and cognitive competences, which generally are associated with the experience and choices of those who obtain a degree.

4. Methods and analysis

4.1. Classification tree analysis

A decision model such as this one involves several determinants, which furthermore interact among each other in complex ways. Trying to assemble the complex relationships between the data with a global model could be very difficult or even confusing. The solution proposed here is to use an alternative approach to linear regression – **classification** tree analysis – which subdivides the data into smaller regions separating individuals based on their support for leave depending on the combinations of independent variables. In these regions, therefore, the interactions between independent variables are easier to interpret. In **classification** tree analysis,

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3 the prediction of a given observation is the most frequent class of observations in the
4 region to which the observation belongs to. The predictor space is divided in mutually
5 exclusive regions so that each region minimizes the classification error, the fraction of
6 the observations in that region that do not belong to the most common class (Berk
7 2008, Breiman et al. 1983). The measure of the classification error is the cost
8 complexity pruning. The splitting begins at the top of the tree (at which point all
9 observations belong to a single region) and then recursively splits the predictors
10 space, looking for the best predictor and best cutpoint in order to split the data further
11 so as to minimize the classification error rate within each of the resulting regions.¹ The
12 resulting partitioning of the data space can be represented using a tree, where each
13 node is a simplified local model, which conditions on a certain variable. The 'leaves'
14 of the tree are terminal nodes in the sense that further splitting of the data space does
15 not explain enough variance of Y.

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17 Compared to linear regression analysis, the technique has the advantage of identifying
18 the most important variables providing a parsimonious model of the chain of decisions.

36 4.2. Data

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39 I use data from the 6th (2014), 7th (2015) and 8th survey (2016, 2017 and 2018) of the
40 UK Understanding Society study: The UK household longitudinal study (US)². The EU
41 membership question was asked throughout the 8th survey. The dataset is suitable as
42 it contains reliable indicators of occupation, educational levels and sources of income,
43 measures of political efficacy, attachment to British identity, trust in political system
44 and attitude towards the EU. Compared to alternative plausible datasets such the
45 British Election Study (BES), it has the advantage of containing reliable and
46 longitudinal measures of socio-economic status. The BES asks about personal and
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55 ¹ The process is "top-down" because it begins at the top of the tree and subsequently partitions the
56 predictor space. It is also "greedy" because at each step of the tree building process, the partition is
57 only made at that particular step, rather than looking ahead and selecting a partition that will improve
58 subsequent partitions.

59 ² University of Essex, Institute for Social and Economic Research, NatCen Social Research, Kantar
60 Public. (2019). Understanding Society: Waves 1-8, 2009-2017 and Harmonised BHPS: Waves 1-18,
1991-2009. UK Data Service. SN: 6614, <http://doi.org/10.5255/UKDA-SN-6614-13>.

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3 household income using a single banded question, which is known to be associated
4 with a large measurement error. The longitudinal nature of US enables me to look at
5 the impact of the various income sources not only at the moment of expressing the
6 preference for EU, but also on the variation over time of income, including welfare
7 transfers, which are a proxy for the impact of austerity on individual income. In addition,
8 understanding society contains measures of political efficacy, which BES does not
9 have. Political efficacy is pivotal to our decision model as it pertains the perceived
10 possibility of being an active part of the political system. All observations with complete
11 values for all the variables used in the model are included. Linking the sample for
12 which information on the EU membership referendum is available to explanatory
13 variables from both the three waves, I am able to use 14221 cases participating in the
14 classification tree modelling, roughly 51 percent of the total cases participating in the
15 three waves of interest and with a non-missing value on the Brexit question (27712).
16 In classification tree analysis, it is not possible to use survey weights to take into
17 account the sampling design. The results of the classification tree analysis therefore
18 are generalisable to the UK population only under the assumption that the sampling
19 design does not make a difference for the preference for Brexit. The amounts to
20 assuming that the population of Northern Ireland is comparable to the rest of the UK;
21 that people of ethnic minority origin are comparable to British; “that recent immigrants
22 to UK do not differ from people who stay in the country longer; that people who live at
23 an address with more than three dwellings or more than three households are the
24 same as those who don’t; that people who responded at Wave 1 are the same as
25 those who did not; that people who continued to respond at later waves are the same
26 as those who did not; and that people who responded to each particular instrument
27 used in the analysis (individual interview, self-completion questionnaire etc.) are the
28 same as those who did not” (Knies 2018, p. 98). Prior research on the attitude towards
29 European integration and Brexit does not suggest that factors such as being Irish, and
30 the number of households are relevant to the preference for Brexit (Fox 2020, Carl et
31 al. 2019, Abrams 2018, Iakhnis et al. 2018, Norris and Inglehart 2018, Curtice 2017,
32 Hobolt 2016, Swales 2016). However, I cannot exclude that ignoring attrition and the
33 method of interviewing the survey members may limit the generalisability of the results.
34 In the results section I will analyse the extent to which the inability to use weights
35 undermines the generalisability of the results.
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3 The dependent variable is the answer to the 8th survey question “Should the UK
4 **remain member of EU**”, where survey members have the options “remain in the EU”
5 and “leave the EU”. I coded as missing the answers where the individual did not know
6 and did not want to reveal her preference. The 8th survey was conducted between
7 2016 and May 2018. I include in the analysis the **date of the interview**, dividing the
8 period in quarters, with the second quarter finishing at the day of the EU referendum
9 (23 June) and the third starting from the day after the referendum (24 June).

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16 I use the following independent variables.

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19 **Social class** is proxied by occupation and defined by the National Statistics Socio-
20 economic Classification (NS-SEC) (eight category version, from the 8th survey).

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23 The highest **qualification** attained is coded as no qualification, GCSE (**General**
24 **Certificate of Secondary Education**) qualifications or equivalent (**typically taken at age**
25 **15-16 at the end of secondary education**), A-level qualifications or equivalent (**typically**
26 **taken at age 18 in schools and colleges, they are a university entry requirement**),
27 degree (**three year higher education qualifications and above**), other degree (**higher**
28 **education vocational qualifications which typically last two years**) and other
29 qualifications, **which do not fall in any of these categories** (from the 8th survey).

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32 The current **employment status** varies between employed, not employed, retired,
33 looking after family and student (from the 8th survey).

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36 **Age** is an interval variable, **ethnicity** a binary variable distinguishing between British
37 and non-British, and **marital status** distinguishes between married, divorced,
38 widowed (all taken from the 8th survey).

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41 I consider three components of personal income: Current **net labour income**, **net**
42 **total income** and **benefits** and their variation between the 6th and 8th surveys. For
43 individuals who respond to the individual questionnaire but do not provide answers to
44 all income questions (item nonresponse), the dataset provides imputed values. For
45 each income component, I consider the current 8th survey value and its change
46 between the 6th and 8th survey.

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3 The **importance attached to ethnic background** varies from “very” (4) to “not at all”
4 (1) (from the 8th survey).
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7 **Level of interest in politics** varies from “very” (4) to “not at all” (1) (from the 7th
8 survey).
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11 **Satisfaction with income** varies from “completely dissatisfied” (1) to completely
12 satisfied (7) (from the 7th survey).
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16 The **attachment to British identity** is defined by the question regarding the
17 importance of being British, with answers varying from “not at all important” (0) to
18 “extremely important” (10) (from the 7th survey).
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23 The evaluation of the political system is captured by variables taken from the 6th
24 survey. The measures are whether the individual perceives to be **qualified to**
25 **participate in politics**, agreement with statements that **public officials do not care,**
26 **I have a say on what government does**³ (Strongly agree (5) to “strongly disagree”
27 (1), and level of **satisfaction with democracy in own country** (Very satisfied (4) to
28 very dissatisfied (1).
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40 **4.3. Results**

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42 The classification analysis selected 8 variables and identified the critical value in each
43 variable that discriminates the sample’s support for EU (**the distribution of the variables**
44 **is reported in the Appendix**). The complexity or number of nodes of the tree is decided
45 by trading off between subtree complexity and fit to the data. This process is performed
46 using a parameter that define the cost of complexity, α , or the amount by which splitting
47 that node improves the relative error. Its optimal value is the one associated with the
48 minimum cross-validated error, whereby increasing complexity by adding variables
49 would only marginally improve the model. The graph 2 shows that by increasing the
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59 ³ The question is framed in negative terms (“I do not have a say on what government does”), yet for
60 ease of interpretation the variable is reversed.

complexity of the model above a cp value of 0.0039 does not reduce the cross-validated error.

Another criterion for the tree building process is to look at the number of cases in each partition. A highly complex model would have a high predictive power, but would have only a few cases in each partition, potentially signalling an overfitting problem. I decided to continue to split the tree up to a cp value of 0.003 to include age groups and quarter of interview, which identify relevant groups.

The model is able to correctly classify 67% of cases overall. In order to test the predictive validity of the model, I split the dataset in a training and test samples and computed the predictive accuracy of the model on the test dataset, obtaining the same predictive accuracy, 67%. In terms of predictive accuracy, the classification tree does not perform better than a logistic regression using the same selection of variables, yet it allowed me to select the most important variables and to assemble them in a decision tree that improves the interpretability of the decision process.

To inspect the extent to which the inability to use weights undermines the generalisability of the results, I present the proportion of individuals who prefer to leave the EU by selected predictors, comparing the figures produced using weights to the unweighted ones (Table 1).

Table 1 - Support for 'leave' the EU by selected characteristics. Weighted and unweighted proportions. Understanding society 6th, 7th and 8th surveys (N=14221).

	Support for 'leave' the EU (proportion)	
	Unweighted	Weighted
Male	0.43	0.43
Female	0.36	0.38
Non-British	0.24	0.24
British	0.42	0.43
Employers and managers	0.26	0.27
Intermediate occupations	0.41	0.42
Routine occupations	0.53	0.50
GCSE	0.55	0.57
Degree	0.23	0.23
Age \geq 25	0.40	0.42
Age $<$ 25	0.28	0.31
British identity \geq 8	0.49	0.51
British identity $<$ 8	0.30	0.30

Influence on govt<=3	0.43	0.44
Influence on govt>3	0.31	0.32
National democracy satisfaction<3	0.43	0.45
National democracy satisfaction>=3	0.35	0.36
Total	0.39	0.41

The weighted and unweighted results are very similar and overall, there is a two percent point discrepancy for the support for leave using the unweighted and weighted figures (0.39 vs 0.41). Therefore, it is very likely that the results of the decision tree, which do not use weights, are generalisable to the UK population. The results also confirm the expectation regarding a larger preference for 'leave' the EU among disadvantaged individuals with respect to occupation and qualifications, older individuals, non-British, individuals with a higher attachment to their British identity and with a lower level of satisfaction with national democracy. As reflected in this sample, Understanding Society data overreport the general preference for 'remain'. A plausible reason is the over sampling in Understanding Society of ethnic minorities, which are more likely to prefer 'remain'. The analysis includes the British/non-British ethnicity variable and shows two branches that are specific to the non-British (comprising respectively 5 and 3 percent of the sample, Graph 1). It is possible that the quantitative importance of those two groups is upwardly biased by the oversampling of ethnic minorities, yet the remaining results are not affected by the prevalence of the non-British individuals.

Graph 1 reports the decision tree which subdivides the data into branches – defined by specific combinations of the predictors – which minimize the classification error. The observations are split when the resulting branches minimize the classification error. Graph 1 reports the probability of support for leave/remain in the EU at each branch and the size of each sub-group with respect to the total sample (in parentheses). Starting from the root node at the top, the tree shows that the most important factor explaining the support for EU is having a degree, confirming the importance of being knowledgeable on European integration. Those who have a degree tend eight out of ten times to support European integration regardless of their attitudes, aspirations and socio-economic status.

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3 Being part of a single market has become second nature to those individuals and they
4 would not give up the possibility to move freely to another country or to exchange
5 goods and services with another European country even if they are disadvantaged
6 and are attached to their British identity.
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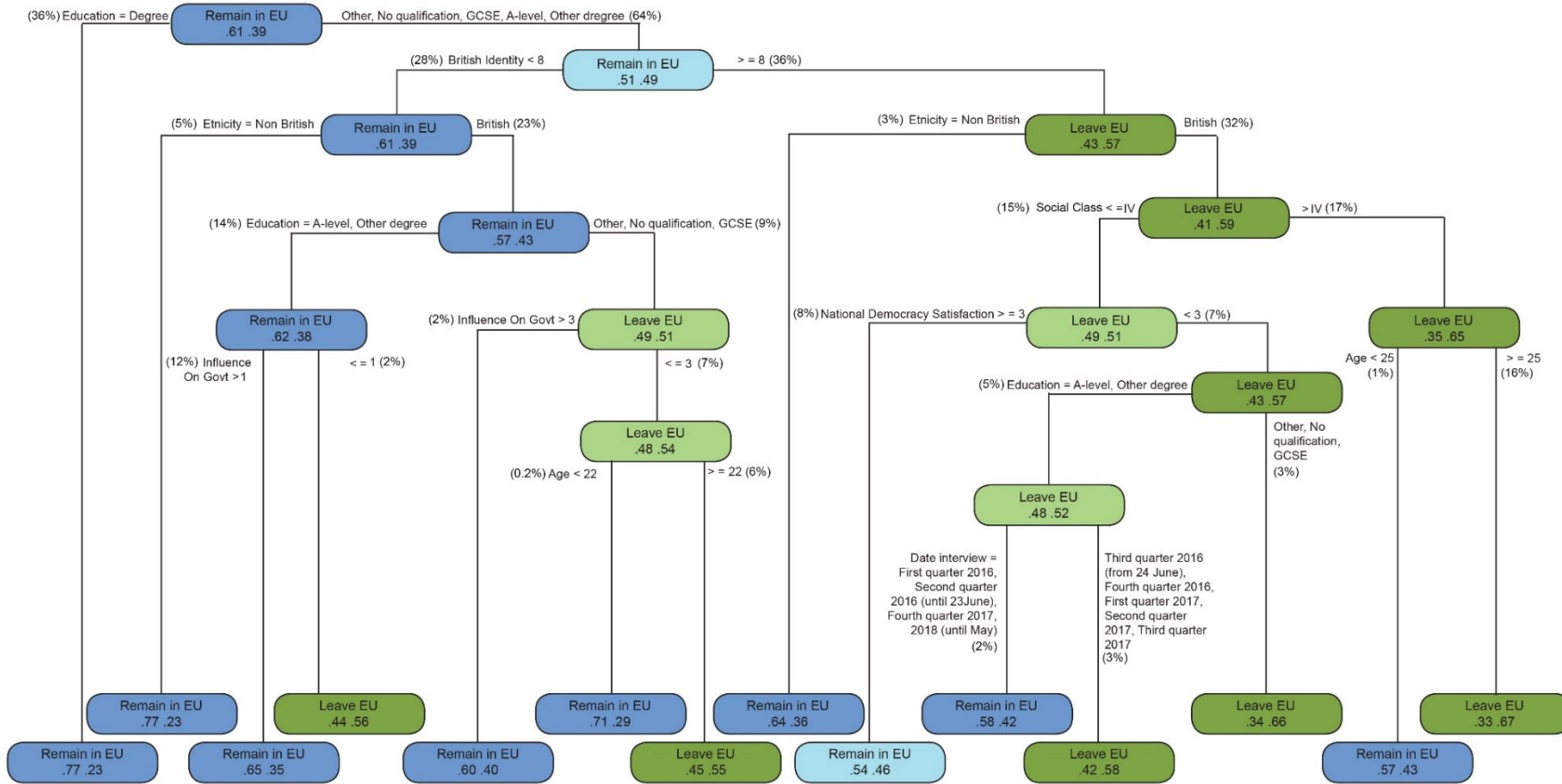
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11 The second most important factor is the attachment to British identity. Among those
12 who do not have a degree, being highly attached to their British identity – having a
13 variable's score greater than the **threshold value 7** - is associated with a preference
14 for leaving the EU, irrespective of social class. **To aid with the substantive**
15 **interpretation of this result, it should be considered that individuals with a score larger**
16 **than 7 have one of the three most extreme values on the 0-to-10 scale of the**
17 **importance of being British, and represent 51% of those with a valid value on the**
18 **variable (Appendix).** Roughly 61 percent of those who have a high attachment to their
19 British identity prefer to leave the EU, while 57 percent of those who are less attached
20 to their British identity prefer to remain in the EU. **The left-hand side of the graph**
21 **identifies individuals with a lower attachment to their British identity. The absence of**
22 **social class on the left-end side of the graph implies that for those with a low**
23 **attachment to their British identity, social class is nor relevant and does not change**
24 **their tendency to support the United Kingdom membership to the EU.** The result is at
25 odds with the short-term economic interests of disadvantaged classes. Conversely,
26 disadvantaged social classes **(Small employers and own account workers (V), lower**
27 **supervisory and technical occupations (VI), semi-routine occupations (VII), routine**
28 **occupations (VIII))** prefer largely to leave the EU when they are more attached to their
29 British identity (65 percent preference for leaving the EU), while advantaged social
30 classes **(large employers and higher management (I), higher professionals (II), lower**
31 **management and professionals (III), and intermediate occupations (IV))** are more
32 undecided when they have a stronger attachment to their British identity (51
33 preference for leaving the EU). Those results show that economic interest is probably
34 more relevant for advantaged social classes than for disadvantaged ones.
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53 By looking at the interaction between British identity with other variables, it is not
54 surprising that the effect of British identity is magnified when combined with a British
55 ethnicity. To inspect the interaction, one follows the branches that originates from the
56 variable British identity. For example, the branches on the left-hand side of the graph
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3 identified by the British ethnic background show at propensity of leaving the EU of
4 individuals with a low attachment to their British identity (values on the British identity
5 variable lower than 8) depending on the ethnic background (British, non-British).
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Graph 1 - Classification tree for the preference for leave/remain in the EU, Understanding society 6th, 7th and 8th surveys (N=14221).

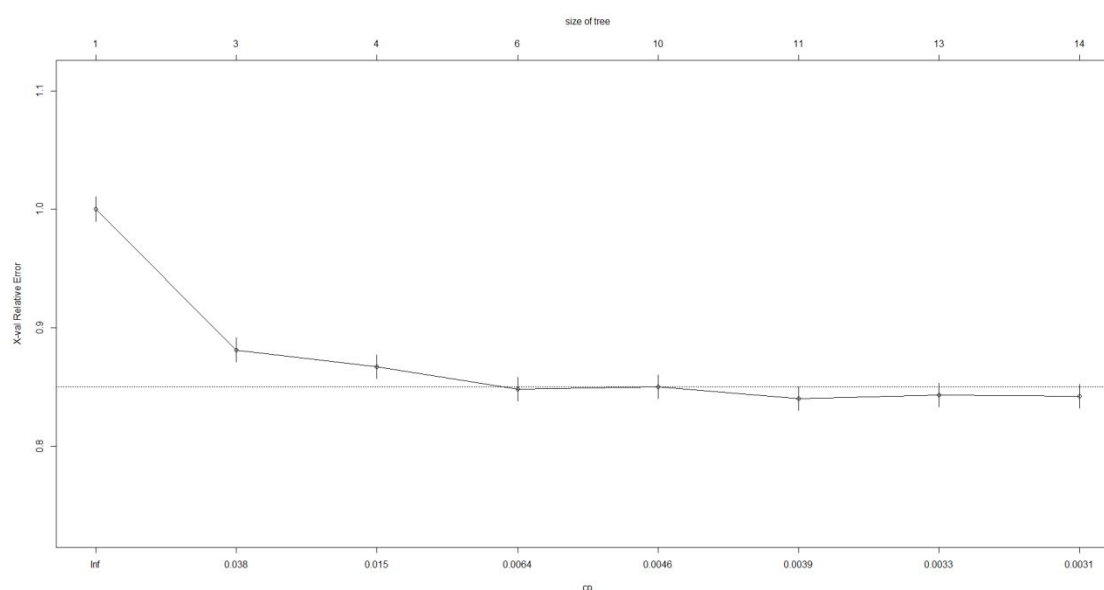


Graph 1 notes:

Social class: I=large employers and higher management, II=higher professionals, III=lower management and professionals, IV=intermediate occupations, V=small employers and own account workers, VI=lower supervisory and technical occupations, VII=semi-routine occupations, VIII=routine occupations.

Percentages in parentheses refer to the size of the sub-groups with respect to the total sample.

Graph 2 – Variation of cross-validated error by cost of complexity



Non-British prefer to remain in EU, although with different intensity depending on how attached they are to their British identity (74 percent for those who are less attached to their British identity and 64 for those who are more attached to their British identity). British, instead have more complicated decision processes that depend on the variables regarding the evaluation of the political system.

Moving downward the decision tree, the evaluation of the political system become relevant. Advantaged social classes on the right end side of the graph – which is the one with high attachment to the British identity – tend to be undecided, yet when they are dissatisfied with the domestic democracy (variable lower than the threshold value 3 on the 4 point Likert scale, i.e. 69% of those with a valid value on the variable), they shift towards scepticism towards the EU 57 percent of the times. Vice versa when they are more satisfied with domestic democracy, they tend to support integration 54

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3 percent of the times. **Advantaged classes are willing to pay an economic price to**
4 **express their disappointment with the domestic political system via the 'leave' option.**
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8 On the left-hand side of the graph (with low levels of attachment to British identity),
9 individuals react to the low level of perceived political efficacy by becoming sceptical
10 about European integration. British individuals with a lower educational level are less
11 favourable to European integration (as they prefer to remain in the EU 49 percent of
12 the times as opposed to 62 of the higher educated), yet when they have a high level
13 of political efficacy (variable "influence on government" with a score larger than 3), i.e.
14 perceive to have an impact on the government, they become favourable to EU
15 integration (60 percent of the times). Conversely, when with a low level of political
16 efficacy, they become sceptical and support to leave the EU 54 percent of the times.
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19 **To aid with the substantive interpretation of the political efficacy variable, the threshold**
20 **>3 identifies those with the top two scores on the five-point Likert scale and represent**
21 **32% of those with a valid response on the variable.**
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25 British individuals with a relatively high educational level (A-levels or other degree)
26 react to a low level of perceived political efficacy (variable with a score at leave five)
27 by preferring to leave the EU 56 percent of the times. When they perceive to have
28 some impact on the government, instead, they prefer to remain in the EU 65 percent
29 of the times.
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33 At the bottom of the decision tree, the branches are defined by age, quarter of interview
34 and educational level. On the right-hand side of the graph, disadvantaged individuals,
35 which tend to prefer to leave the EU (65 percent of the times), prefer to remain in the
36 EU if they are younger than 25 (56 percent of the times), whilst they prefer to leave
37 the EU 67 percent of the times if they are 25 or older. It should be mentioned that the
38 younger group consists of a relatively small group of 169 individuals. On the left-hand
39 side of the graph, among those with lower levels of education and low levels of political
40 efficacy, individuals who are 21 or less tend to prefer to remain in the EU (71 percent
41 of the times), while older individuals prefer to leave the EU (55 percent of the times).
42 The younger group is small (42 individuals) and does not allow to generalise those
43 results to the overall population with confidence.
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3 Advantaged individuals with little trust in domestic democracy will prefer to leave the
4 EU even more if they have GCSE or lower levels of education (66 percent of the times).
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6 When they have A-levels or other degrees they reduce their support for leaving the
7 EU to 52 percent.
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11 Finally, the least important decision factor is the date of the interview, which is relevant
12 only on the right-hand side of the graph for the advantaged groups with high levels of
13 satisfaction with domestic democracy and with a relatively high educational level. For
14 this group there is an upward trend towards Euroscepticism starting from the beginning
15 of the year of the referendum – 2016. Up until the date of the referendum its preference
16 for leaving the EU is 42 percent. After the referendum and throughout 2017 until the
17 third quarter the preference increases up to 58, then it decreases again to the previous
18 level until May 2018, which is when the observation period ends.
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26 The measures of total income, benefits, labour income and the over time changes in
27 benefits do not have a substantial role in the process of preference formation.
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35 36 **5. Conclusions**

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38 This article proposes a rational choice model of the British support for leaving the EU
39 that includes both identity-based aspirations and economic interest and uses decision
40 trees analysis to test it. The decision model differs from extant analyses in that it does
41 not distinguish between rational and cultural considerations, but considers both
42 identity aspirations and economic interest as rational considerations to be included in
43 the same utility maximising model. The model is premised on the notion that leaving
44 the EU has uncertain economic consequences and therefore is accompanied by a
45 certain degree of risk. It is also based on the notion that the perceived quality of the
46 political system mediates the trust of the individual in realising her aspirations and
47 goals in the current status quo. If the individual does not trust the political system, she
48 might use the rejection of European integration to punish the establishment, which
49 largely supports European integration. Similarly, if the individual perceives to be
50 powerless with respect to political decisions, she might reject the system that is
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3 excluding her. The second innovation of the proposed model is therefore the inclusion
4 of political efficacy, which captures the extent to which the individual thinks he/she can
5 have an impact on the government. Third, the model uses better measures of socio-
6 economic characteristics than those used by existing models.
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11 Thanks to those innovations, the presented analysis can account for some unexpected
12 results and shed light on new results. First, while advantaged classes tend to prefer to
13 remain in the EU more than disadvantaged ones, a substantial portion of individuals
14 in an advantaged class prefer to leave the EU, which is at odds with their expected
15 economic interest. The presented analysis shows that advantaged classes become
16 sceptical about European integration when they have little trust in domestic
17 democracy. A plausible interpretation of the result is that they use the preference for
18 the EU to punish the domestic political class, which supports integration by and large.
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26 Second, disadvantaged classes are mostly driven by identity-based considerations,
27 whilst advantaged classes trade between economic considerations and identity-based
28 considerations. Disadvantaged classes tend to express their preference more
29 consistently with their national identity. When they are more attached to their British
30 identity, they prefer leaving the EU, when they are less attached to their British
31 identity, they become pro-integration, even at the cost of placing themselves in competition
32 with migrants coming from other EU countries. Conversely, advantaged classes react
33 to the possibility of conflicting interests by trading off. They tend to prefer European
34 integration, yet when they are attached to their British identity, they do not shift their
35 position in favour of leaving the EU but remain uncertain.
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44 Third, the evaluation of the political system is multidimensional and political efficacy
45 shows to have an independent effect on the attitude towards the EU. The lack of
46 political efficacy accounts for the preference for Brexit among those who are least
47 attached to their British identity, which otherwise tend to prefer European integration.
48 Among those who are less attached to their British identity, which in general tend to
49 support European integration, the perceived lack of individual influence on the
50 government triggers anti-establishment attitudes, shifting preferences towards leaving
51 the EU.
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3 Fourth, regarding non-attitudinal factors, education is the most important decision
4 factor and its effect is not accounted for by income or social class. It is possible that
5 education proxies for the importance of being knowledgeable on European integration,
6 and the ability to develop a supra-national identity. Indeed, understanding the debate
7 around the uncertain consequences of European integration distinguishing between
8 short- and long-term consequences requires the mastery of complex notions. It is also
9 possible that individuals with a degree, who are those who travel the most and have
10 connections abroad, do not want to give up their connections with Europe.

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13 Fifth, income measures do not have a significant independent role in the presented
14 decision-making model. Thanks to longitudinal nature of US, I could include the main
15 sources of income and track their change over time with the view to assess the impact
16 of increasing austerity for the disadvantaged groups. This allows me to conclude with
17 confidence that the attitude towards European integration is not influenced by
18 variations in income such as earned income or welfare transfers. **This is relevant for**
19 **the debate around the relative importance of economic and cultural factors for the**
20 **support for European integration as it confirms that income per se is nonconsequential**
21 **for this decision.** Social class does have an impact though, suggesting that it is the
22 perceived position within the labour market that is relevant for the attitude towards
23 European integration.

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26 Those results imply that the interpretation of the Brexit referendum result as a
27 combination of attachment to British identity and worries about immigration, lack of
28 economic opportunities and dissatisfaction with the political class (Fox 2020, Carl et
29 al. 2019, Abrams 2018, Iakhnis et al. 2018, Norris and Inglehart 2018, Curtice 2017,
30 Hobolt 2016, Hobolt and Tilley 2016, Swales 2016, Kriesi et al. 2012) should be
31 rectified. Disadvantaged groups' support for European integration is driven by identity
32 aspirations not by economic interest. The results have also showed that anti-
33 establishment attitudes are not associated with disadvantaged socio-economic
34 groups. The dissatisfaction with domestic democracy is relevant mostly for the
35 advantaged, and the lack of political efficacy affects equally the attitudes of
36 advantaged and disadvantaged groups.

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39 A negative evaluation of the political system makes certain groups, which otherwise
40 tend to support European integration, lean towards Euroscepticism. In particular, it

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3 helps to explain the apparently contradictory Euroscepticism of those who are less
4 attached to their British identity and of advantaged classes. Among those who are
5 least attached to their British identity, the perceived lack of influence on the
6 government, which is a trigger for anti-establishment attitudes, shifts the preference
7 towards leaving the EU. The other trigger of anti-establishment attitudes, the
8 dissatisfaction with domestic democracy tends to shift towards Euroscepticism the
9 attitude of the advantaged classes, which when satisfied with domestic democracy
10 tend to support European integration despite their attachment to their British identity.
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18 The paper also showed that decision tree is a useful tool to describe decision
19 processes when the decision is the result of multiple and potentially conflicting
20 interests.
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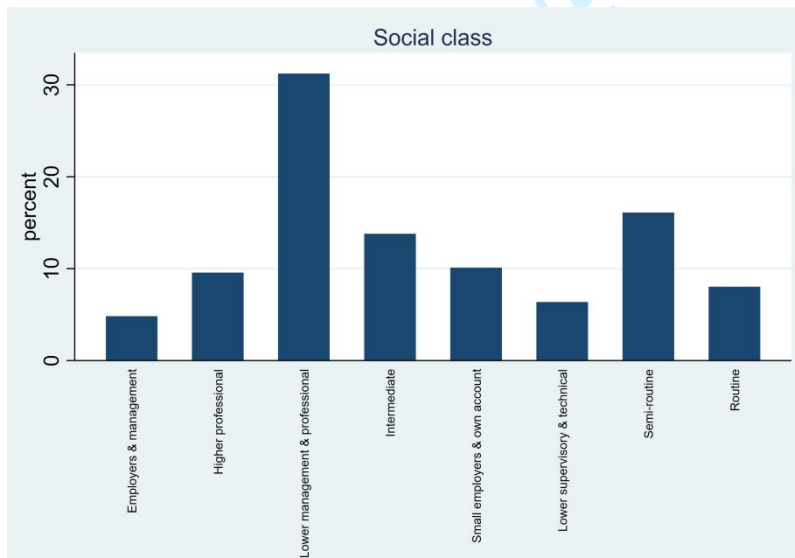
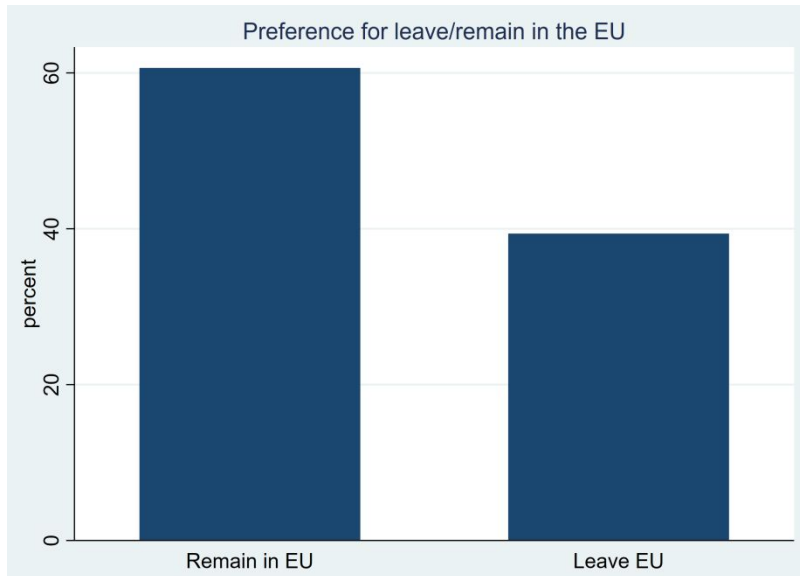
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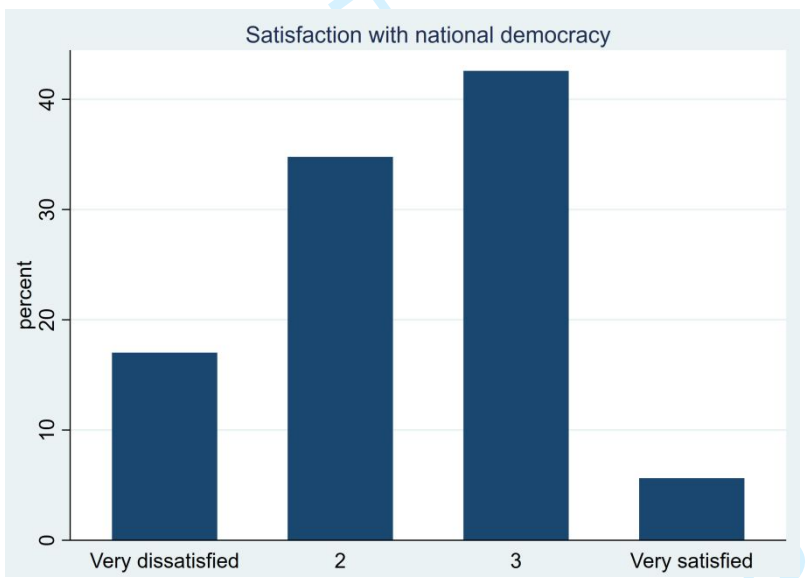
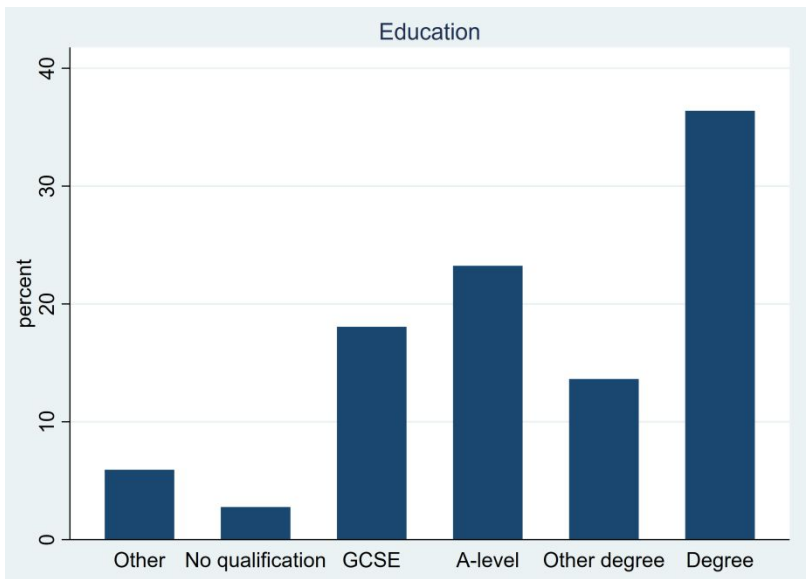
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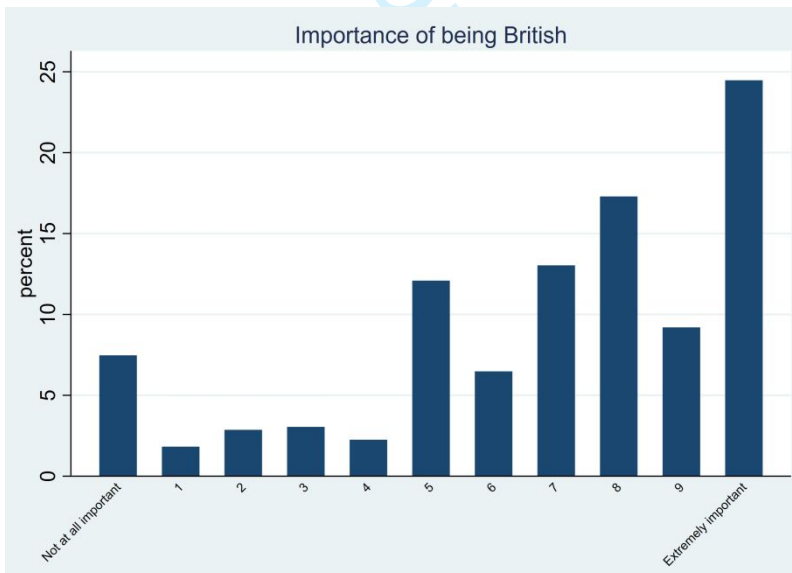
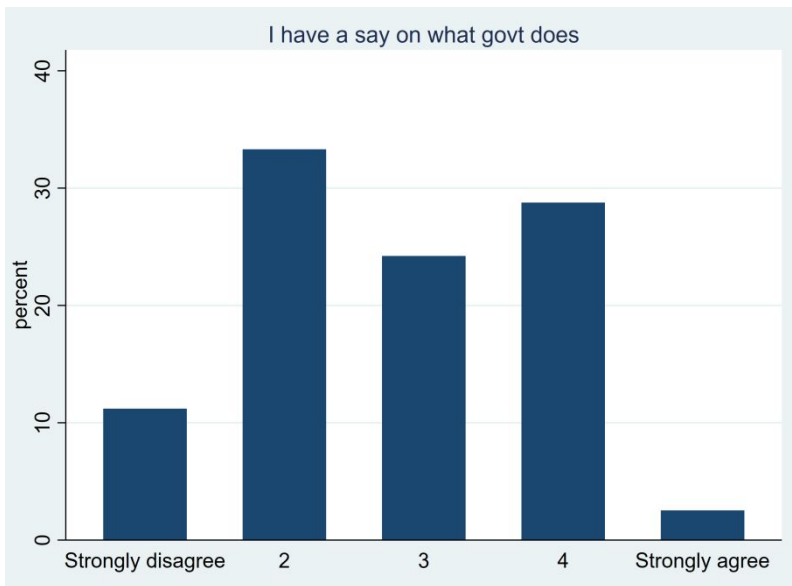
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3 **Appendix – Distribution of key variables. Understanding society 6th, 7th and**
4 **8th surveys (N=14221).**
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