

Rethinking the Link Between Self-Reported Personality Traits and Political Preferences

NOTE: This paper is forthcoming in the American Political Science Review. Small changes might be made to the manuscript.

BERT N. BAKKER *University of Amsterdam*

YPHTACH LELKES *University of Pennsylvania*

ARIEL MALKA *Yeshiva University*

Research on personality and political preferences generally assumes unidirectional causal influence of the former on the latter. However, there are reasons to believe that citizens might adopt what they perceive as politically congruent psychological attributes, or at least be motivated to view themselves as having these attributes. We test this hypothesis in a series of studies. Results of preregistered panel analyses in three countries suggest reciprocal causal influences between self-reported personality traits and political preferences. In two two-wave survey experiments, a subtle political prime at the beginning of a survey resulted in self-reported personality traits that were more aligned with political preferences gauged in a previous assessment. We discuss how concurrent assessment within the context of a political survey might overestimate the causal influence of personality traits on political preferences, and how political polarization might be exacerbated by political opponents adopting different personality characteristics or self-perceptions thereof.

Word Count: 11310

Bert N. Bakker, ORCID: 0000-0002-6491-5045, Associate professor. Amsterdam School of Communication Research. University of Amsterdam. b.n.bakker@uva.nl

Yphtach Lelkes, ORCID: 0000-0003-1805-056X, Associate professor, Annenberg School for Communication, University of Pennsylvania

Ariel Malka, ORCID: 0000-0002-7300-514X, Associate professor, Yeshiva University.

Acknowledgements: We thank the APSR editors and anonymous reviewers, as well as Vin Arceneaux, Mark Brandt, Matthijs Rooduijn, and Gijs Schumacher for comments on earlier versions of this paper. An earlier version of this paper was presented at the SPSP political psychology pre-conference and the Political Psychology Research Group at Stanford University. This research was supported by the Amsterdam School of Communication Research, University of Amsterdam, and the Annenberg School for Communication, University of Pennsylvania.

This is a manuscript submitted for review.

To understand the psychological foundations of political differences in the general public, social scientists have examined relationships between personality traits – defined as stable tendencies to think, feel, and behave in particular ways – and political preferences, such as policy attitudes, political values, and partisan and ideological identities. This area of research has received a great deal of scholarly attention over the last two decades (for an overview, see Federico and Malka 2018). Moreover, its key findings have been covered frequently in the news media, often to inform discussion of the nature and consequences of political polarization (e.g., *The Atlantic* (2020); *New York Times* (2020)).

Studies in this area have mainly used cross-sectional designs in which personality traits and political preferences are measured within the same political survey. In almost all cases, this work has implicitly or explicitly assumed that associations between personality and political preferences reflect unidirectional causal influence of the former on the latter. However, recent work has raised questions about this assumption and has introduced the possibility that political preferences might influence personality, or at least self-perceptions thereof (Ludeke et al. 2016; Boston et al. 2018; Hatemi and Verhulst 2015; Fatke 2017; Luttig 2021).

If part of the well-documented associations between personality traits and political preferences reflect a causal influence of political preferences on self-reports of personality, this would have important implications. Theoretically, this would require scholars to reconsider the extent to which political differences are rooted in deep-seated personality traits. Empirically, this would mean that models specifying unidirectional influence of personality on political preferences – i.e., almost all the analytic models in this research area – overestimate the magnitude of this causal influence. And normatively, an effect of political preferences on self-reported personality traits would suggest that political polarization may be exacerbated by political opponents adopting, or perceiving themselves as possessing, opposite personality attributes.

Based on these considerations, we report the results of five studies that aim to gauge the causal influence of political preferences on self-reported personality traits. This includes longitudinal studies from three different countries – two of which were preregistered – and two preregistered survey experiments. In the preregistered analyses of panel and experimental data, we find evidence that

self-reports of personality are to some extent endogenous to political preferences. Although the estimated causal influence of political preferences on personality traits is small, these estimates are not much different in magnitude from those of the effect of personality traits on political preferences – the causal direction that is generally presumed to explain personality-politics associations. We discuss theoretical, methodological, and normative implications.

WHY MIGHT POLITICS INFLUENCE PERSONALITY?

The most common inference drawn from personality-politics research is that left vs. right ideological differences are caused, in part, by a set of traits pertaining to a closed, rigid, and structure-seeking vs. open, flexible, and ambiguity-tolerant experiential pattern (Federico and Malka 2018; Johnston et al. 2017). Three frequently studied individual differences within this family of “closed vs. open” traits are conscientiousness, openness to experience, and authoritarianism.

Openness and conscientiousness come from the Big Five taxonomy, which represents the structure of broad traits that efficiently summarize a wide range of personality differences. Right-wing political preferences are found to correlate positively with conscientiousness and negatively with openness to experience (Sibley et al. 2012; Gerber et al. 2010). This is said to be because conscientiousness reflects, in part, a need for order and structure, which is satisfied by right-leaning political policy. In contrast, openness to experience reflects an inclination toward variety-seeking, intellectual, and artistic styles that attract people to the political left. Meanwhile, dispositional authoritarianism – a widely studied trait reflecting variation in preference for obedience, conformity, and order – has tended to correlate positively with certain right-wing political preferences (Stenner 2005; Feldman and Stenner 1997). This association between right vs. left political preferences and traits such as conscientiousness, openness, and authoritarianism suggests that the primary dimension of political conflict is psychologically deep-seated and, therefore, difficult to mitigate through mutual understanding and compromise (Hibbing et al. 2014).

A core assumption in the personality-politics literature is that personality traits are stable dispositions that shape how people respond across situations. Indeed, personality traits display high rank-order stability (Roberts and DelVecchio 2000), have sizable heritable components (Vukasović and Bratko

2015), and predict a wide range of behavioral criteria and life outcomes (Soto 2019). However, personality traits can change over a person's life-time (Damian et al. 2019), and some interventions have succeeded in changing people's levels of personality traits (Magidson et al. 2014; Stieger et al. 2020). This raises the possibility that in addition to causing political preferences, personality traits might, in part, be a consequence of political preferences. After all, even demographically based identities – such as religiosity and sexual orientation – appear to be influenced in part by political preferences (Egan 2020; Margolis 2018). This might be true for personality traits as well.

There are two broad mechanisms by which political preferences might causally influence people's self-reported personality traits. The first has to do with right-wing and left-wing people's tendency to surround themselves disproportionately with politically like-minded others (Boutyline and Willer 2017; Huber and Malhotra 2017). Given the powerful influence of group norms on behavior (Terry and Hogg 1996), people may come to adopt the behavioral and experiential tendencies of politically like-minded others, which would register in self-report measures of personality traits.

The second mechanism has to do with identity and motivated self-perception. Left- and right-wing people often become aware of the traits associated with stereotypes of their ideological groups (Rothschild et al. 2019; Ahler and Sood 2018). In political contexts, such as political surveys or political discussions, people might be motivated to represent themselves as similar to stereotypical others in their ideological group (Ludeke et al. 2016, 2013; Turner 1985). Moreover, in the context of a political survey, they might assign greater weight to memories of acting and experiencing in an ideologically “consistent” way when responding to personality trait items (Zaller and Feldman 1992).

A few longitudinal studies to date have examined whether specific psychological attributes assumed to cause political preferences are, at least to some extent, caused by political preferences. Analyses of panel data from Australia and the United States (1-3.5 year intervals) have provided evidence consistent with political ideology exerting a causal influence on “binding moral foundations”, reflecting values of group loyalty, respect for authority, and purity/sanctity (Hatemi et al. 2019; Smith et al. 2017). And analyses of panel data from New Zealand (1-year interval) and Belgium (6-year interval) were consistent with egalitarian political attitudes exerting a positive causal influence on empathy (Sidanius et al. 2013). These studies show the potential of political preferences to influence psychological attributes.

However, because of the types of psychological constructs they measure, these studies provide limited information about the dominant emphasis in personality-politics research – the relationship between the broad open vs. closed family of traits and left vs. right political preferences.

To the best of our knowledge, there are four longitudinal studies that more directly address this matter. First, in a six-wave American panel spanning 22 months, increased approval of President Obama and decline in approval of a Republican-controlled Congress predicted increases in self-reported openness to experience (Boston et al. 2018). Second, Luttig (2021) finds reciprocal relationships between authoritarianism and support for the Republican party. Third, using Australian panel data spanning ten years, no lagged effect of political ideology on openness to experience was found (Hatemi and Verhulst 2015). Fourth, using panel data from New Zealand spanning nine years, no effects of political ideology on openness to experience were found (Osborne and Sibley 2020).¹

Though informative, these studies possess methodological features that limit the conclusions one may draw from their findings. The first and second studies (Boston et al. 2018; Luttig 2021) focused exclusively on Presidential and Congressional approval and did not directly assess political policy preferences. The third study (Hatemi and Verhulst 2015) used different measures of openness and political preferences across the two measurement occasions, precluding direct comparisons of people's personality traits and political preferences across the waves. The third (Hatemi and Verhulst 2015) and fourth (Osborne and Sibley 2020) studies focused only on openness to experience and did not address other traits relevant to the open vs. closed family of indicators. And most importantly, while panel studies offer Granger causal evidence, internal validity threats still loom because theorized causal variables are not exogenously manipulated.

THE PRESENT RESEARCH

Prior work leaves unclear the matter of whether political preferences in part influence self-reports of personality traits. We examine this possibility with analyses of panel datasets from three different

¹Studies by Bakker et al. (2015), Bakker et al. (2016), Bloeser et al. (2015) and Ekstrom and Federico (2019) rely upon panel data with repeated measures of political preferences but only one measure of personality as such they cannot speak to the reciprocal relationship.

countries (with design and analysis plan pre-registered in two of these) as well as two survey experiments from the United States (with design, analysis plan, and predictions pre-registered in both). The Online Appendix on the APSR website provides item wording and results belonging to the main tests of the hypotheses. The Supplementary Information contains additional information and robustness checks and is placed in the APSR Dataverse (<https://doi.org/10.7910/DVN/WZI945>)

First, we used cross-lagged panel models (CLPMs) to examine the causal direction in population-based longitudinal panel studies from the Netherlands, Germany, and the United States. Each panel spans a long time interval and includes validated measures of personality traits from the open vs. closed family and measures of political preferences.

CLPMs, at best, offer Granger causal evidence (Vaisey and Miles 2017; Rogosa 1980). To overcome this issue, we conducted two well-powered two-wave between-subjects survey experiments with preregistered hypotheses and analysis plans (Big Five: <https://osf.io/kqexp/>; Authoritarianism: <https://osf.io/7bgrm/>). Though experimental manipulation of political preferences is not feasible, the potential causal influence of political preferences can be indirectly addressed through an experimental procedure that makes political preferences salient for some, but not other, respondents. This corresponds with the approach taken by political scientists and psychologists of priming religiosity to gauge the causal influence of religious sentiment, a personal attribute that is not directly manipulable (Margolis 2018; Ben-Nun Bloom and Arikan 2013). If exogenously manipulated political preference salience causes people to report personality traits that are more consistent with previously assessed political preferences, this would suggest that having political preferences in mind causes one to represent oneself as having a more politically congruent personality. We, therefore, tested the preregistered prediction that those primed with politics, compared to those in a control condition, would subsequently report levels of conscientiousness and openness to experience (Big Five experiment) or authoritarianism (Authoritarianism experiment) that are more consistent with the political preferences that they had reported in an earlier assessment.

With these two distinct approaches to diagnosing causal influence, our study is the first to combine large population-based panel data from multiple countries with experimental data to gauge the potential effects of political preferences on self-reported personality traits.

TABLE 1. Overview of the Design Characteristics of the Panel Studies in the Netherlands, Germany and the United States

Country	Sample	Preregistered	Political Preference	Closed-Personality
Netherlands	N=2142-2527 2008-2019 LISS panel	No	Left-right self-placement (1-item) Euthanasia (1-item) Reducing income gap (1-item) European integration (1-item) immigration (1-item)	Openness (10-items) Conscientiousness (10-items)
Germany	N=1,905-2,202 2015-2019 GESIS panel	Yes	Left-right self-placement (1-item) European integration (1-item)	Openness (2-items) Conscientiousness (2-items)
United States	N=781-2,121 2006-2014 GSS panel	Yes	Left-right self-placement (1-item) Party identification (1-item) Abortion attitudes (7-items) LGBT attitudes (3-items) Social welfare attitudes (4-items)	Authoritarianism (2-items)

TESTS USING CROSS-LAGGED PANEL MODELS

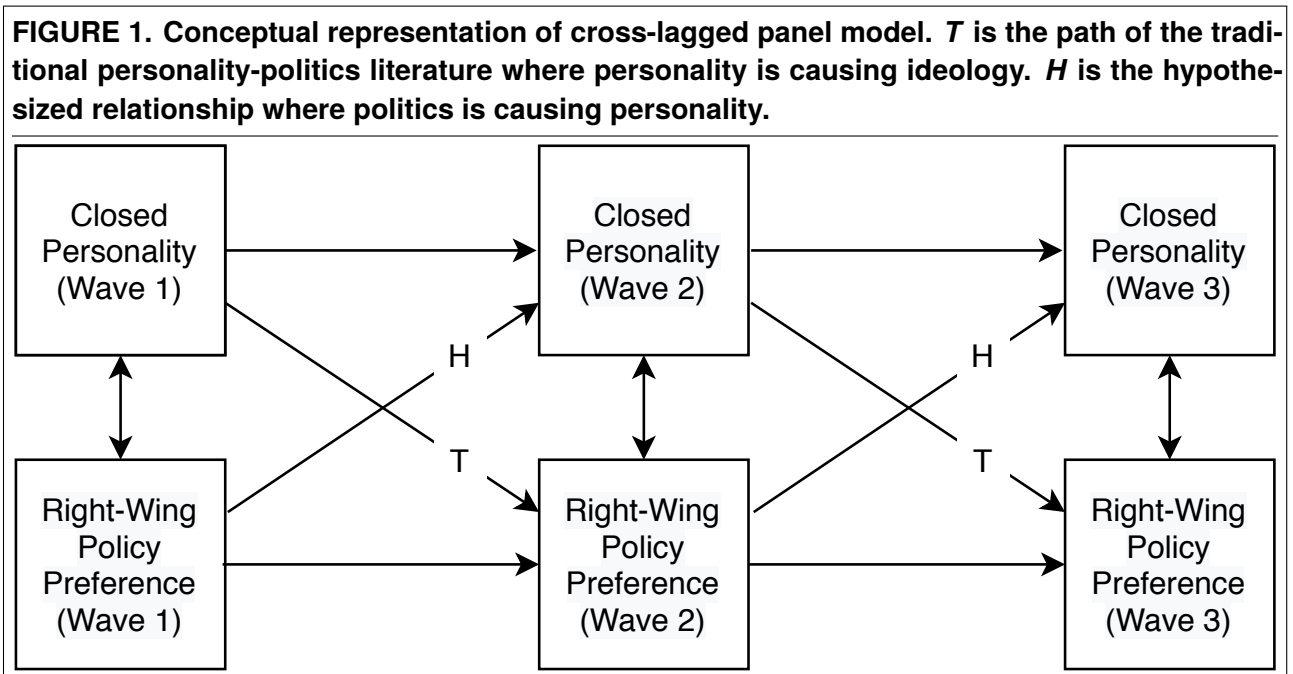
We conducted tests of the hypothesis that increases in right-wing (conservative) political preferences cause a more “closed” personality – that is, high conscientiousness, low openness, and high authoritarianism – in the Netherlands (LISS panel), Germany (GESIS panel), and the United States (GSS panel). These panels contain measures of personality and political preferences at three occasions over long periods (Netherlands=11 years; Germany=5 years; US=4 years). We preregistered hypotheses, methods, and analysis strategy before gaining access to the data (Van den Akker et al. 2019) for the German GESIS panel (here: <https://osf.io/2bx8c/>) and the American GSS panel (here: <https://osf.io/h67p5/>), but not for the Dutch LISS panel. Table 1 provides an overview of the three panel studies. The panel studies adhere to APSA’s Principles and Guidance for Human Subject Research (see Online Appendix (OA) 7.1).

Academic norms for analyzing the reciprocal relationship between two variables using longitudinal data vary considerably between disciplines. Political scientists have typically relied on the traditional CLPM (Finkel (1995); see for instance Goren (2005), Lelkes (2018), Luttig (2021) or Margolis (2018)). In this approach, current values of x and y are simultaneously regressed on lagged values of x and y. The lagged dependent variable is included in each of these models to guard against spurious correlations, which can arise due to differing levels of stability in the outcome and predictor variable (Rogosa 1980).

In Figure 1 we plot the cross-lagged panel model that we used. Positive and statistically significant effects of personality on political preferences from waves 1-2 and waves 2-3 (path T [traditional] in Figure 1) would support the conventional view of personality influencing political preferences. We hypothesized, however, that there would also be significant positive effects of political preference on

personality from waves 1-2 and waves 2-3 (path H [hypothesized] in Figure 1).

The Dutch and German samples included measures of conscientiousness and openness to experience, whereas the American sample included measures of authoritarianism. In the Dutch and German samples, we (a) treat each personality measure (openness and conscientiousness) as an indicator of a closed personality, (b) concatenate the measures, (c) include a dummy variable to indicate whether a particular set of observations comes from openness or conscientiousness, and (d) cluster on respondent. This approach, which was preregistered for the German data, maximizes power and simplifies the presentation of results. Note that throughout the panel studies we used the one-sided p-value of 0.05 as the value for statistical significance, which was preregistered for the German and US panels.



Though the use of CLPMs is quite common, and we preregistered the plan to use them, it is important to note that this procedure has limitations. In particular, the traditional CLPM does not distinguish within-person and between-person variance and is ultimately susceptible to omitted variable bias. However, alternatives to the CLPM, most notably the Random Intercept CLPM (RI-CLPM, Hamaker et al. 2015), also come with biases (Nickell 1981; Allison et al. 2017; Leszczensky and Wolbring 2019). In SI 4, we describe these biases and illustrate with our own simulations and analyses how they would be expected to seriously distort conclusions if applied to the present panel data.

Given these limitations and the fact that we preregistered use of the CLPM analyses, we presently

report results using CLPM in the main text and results using RI-CLPM analyses in the Online Appendix (the Netherlands, see OA 1.4; Germany, see OA 2.3; the US, see OA 3.4). Most importantly, however, we supplement the panel data analyses with analyses of two preregistered survey experiments that aim to diagnose causal influence by exogenously manipulating political preference salience.

Non-preregistered test in the Netherlands of the Big 5 and Political Preferences

We used data from the Dutch LISS (Longitudinal Internet Studies for the Social Sciences) panel in the Netherlands (Scherpenzeel and Das 2010). The LISS panel is a representative sample of Dutch individuals who participate in monthly Internet surveys. We used measures of the Big Five personality traits administered in May 2008, May 2013, and May 2019, and measures of political preferences administered in December 2007- January 2008, December 2012, and December 2018 - March 2019. Sample sizes for each wave-measure combination appear in Supplementary Information (SI) 1.2.

Closed personality traits were measured with 10-item conscientiousness and openness scales drawn from the International Personality Item Pool (Goldberg et al. 1999). The item wording for the trait measures is provided in Online Appendix 1.2.1, and the psychometric properties, Cronbach's α , and average inter-item correlation are provided in Supplementary Information 1.2.

As for political preferences, we used measures of left-right ideological self-placement and attitudes toward euthanasia, reducing income gaps, European integration, and immigration. See OA 1.2.2. for question-wording. The correlation coefficients between the personality traits and policy preferences are provided in SI 1.2.

Results

We present the unconstrained cross-lagged regression coefficients.² The RMSEA for all models was .07, the CFI was .98, and the SRMR was .03, which is generally considered a good model fit (Hu and Bentler (1999); Byrne (1994); MacCallum et al. (1996) – see SI 1.2). We plot the standardized

²Goodness-of-fit-statistics showed that the unconstrained models had a better fit compared to the constrained model (OA 1.3).

coefficients for personality on political preferences in the left panel of Figure 2 and those for political preferences on personality in the right panel of Figure 2.

Consistent with the key assumption of personality-politics research, we found lagged effects of closed personality on a number of right-wing political preferences (left panel, Figure 2). For instance, lagged closed personality scores were positively associated with right-wing immigration attitudes from waves 1-2 ($\beta=.06$, $se=.01$, $p<.001$) and waves 2-3 ($\beta=.07$, $se=.01$, $p<.001$). Similar patterns were found for personality effects on left-right ideological self-placement, EU attitude, and income differences attitude (waves 2-3), but not for euthanasia. The one-tailed p-values from these models were smaller than .05 for 5 out of 10 coefficients.

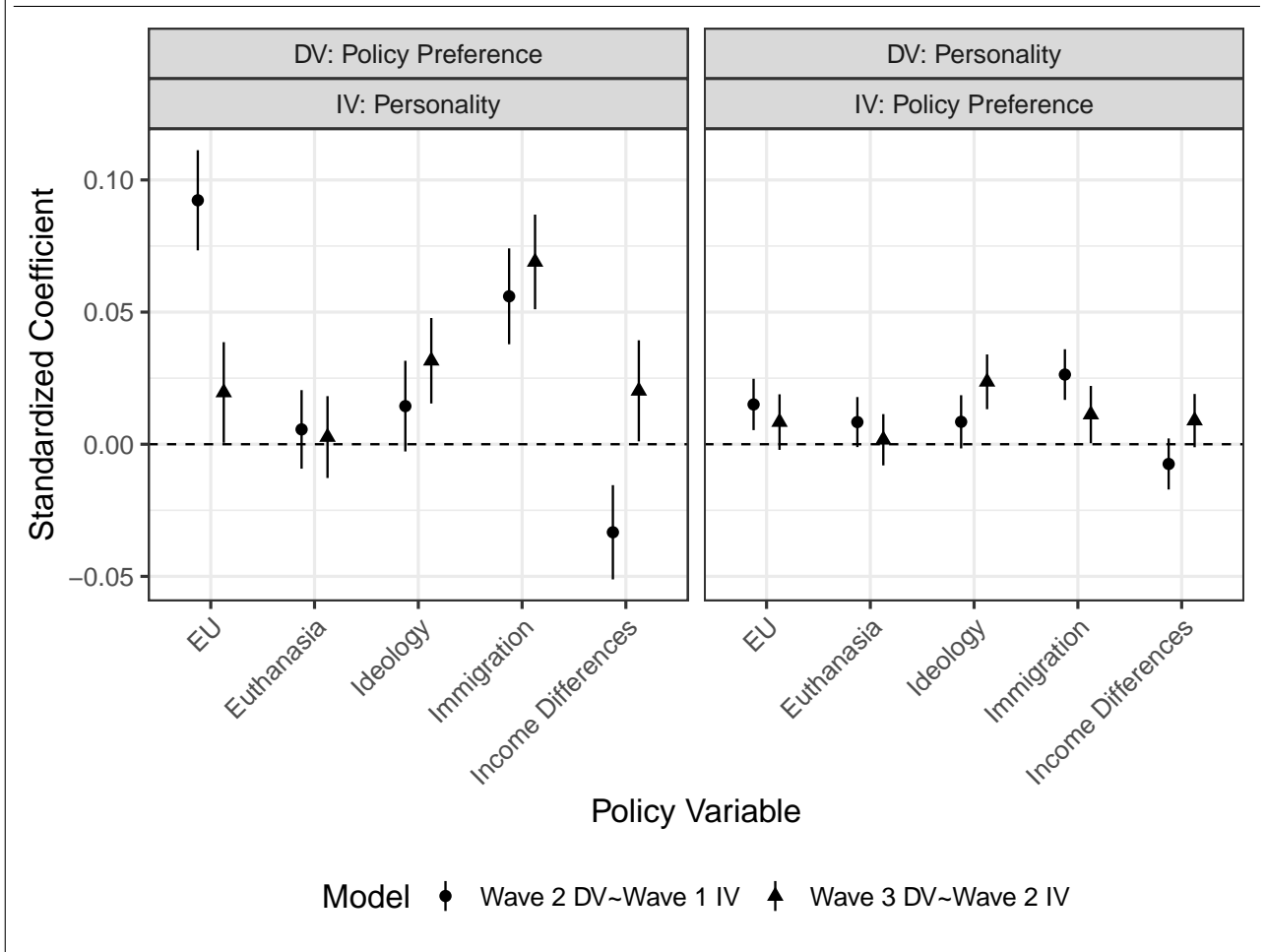
In line with our key hypothesis, however, lagged levels of political preferences predicted subsequent levels of closed personality in half the tests (right panel, Figure 2). Lagged immigration attitude was significantly positively associated with later personality scores from waves 1-2 ($\beta=.03$, $se=.01$, $p<.001$) and waves 2-3 ($\beta=.01$, $se=.01$, one-tailed $p=.04$). Lagged EU attitudes predicted increase in closed personality from waves 1-2 ($\beta=.02$, $se=.01$, one-tailed $p=.01$) but not from waves 2-3 ($\beta=.01$, $se=.01$, one-tailed $p=.09$). Lagged euthanasia attitude had a positive effect on more closed personality but the effects were not statistically significant from waves 1-2 ($\beta=.01$, $se=.01$, one-tailed $p=.07$) or waves 2-3 ($\beta=.00$, $se=.01$, one-tailed $p=.39$). Lagged ideological self-placement had a positive effect on closed personality but this effect was only statistically significant from waves 2-3 ($\beta=.02$, $se=.01$, $p<.001$) but not from waves 1-2 ($\beta=.01$, $se=.01$, one-sided $p=.08$). The coefficients for the income difference model was positive between wave 1 and 2 but only between wave 2 and 3 the coefficient was positive and statistically significant.

We also conducted several robustness checks. Results were similar when we analyzed conscientiousness and openness (reverse scored) separately (SI 1.3). We also did not find consistent evidence for effects of political preferences on neuroticism, extraversion, or agreeableness (SI 1.4). Finally, the inclusion of control variables (gender, age, education and income) did not change results (SI 1.5).

Thus, the Dutch panel results were consistent with political preferences sometimes exerting a causal influence on self-reported personality traits. However, these analyses were not preregistered and might therefore be regarded as exploratory (Nosek et al. 2018; Simmons et al. 2011). We next report

preregistered tests using the German GESIS panel.

FIGURE 2. Standardized regression coefficients from preregistered cross-lagged panel models in the Netherlands. Dots and triangles are point estimates, error bars are 90% confidence intervals. The left panel presents the path from lagged personality on political preference in a subsequent wave – see path T in Figure 1. The right panel presents the path from lagged political preference on personality in a subsequent wave, path H in Figure 1. The complete output of the cross-lagged models, including model fit, can be found in the Online Appendix 1.4.



Preregistered test using the German GESIS panel

The GESIS panel is a probability-based mixed-mode (web/mail) panel whose sample is drawn from the German-speaking population of individuals aged 18 to 70 (at the time of recruitment) who permanently reside in Germany (Bosnjak et al. 2018). Starting in 2014, respondents completed a 15-minute survey every two months.

In the German panel, we used the two-item scales for conscientiousness and openness from the Ten Item Personality Inventory (Gosling et al. 2003) administered in 2015, 2017, and 2019 (see OA 2.2.1 for question-wording). Although short personality trait measures are generally of lower quality than longer ones, this is mainly a problem for measures of neuroticism, agreeableness, and extraversion; with short measures of openness and conscientiousness often performing as well as longer measures (Bakker and Lelkes 2018). As for political preferences, we used items assessing left vs. right ideological self-placement and attitude toward EU integration (with opposition regarded as the right-wing position). Question-wording can be found in OA 2.2.2. Descriptive statistics and psychometric for all measures properties can be found in SI 2.2-2.4.

Deviations from preregistration We preregistered to apply GESIS' sample weights in our analyses. However, the Lavaan R-package (Rosseel 2012) cannot handle sample weights in combination with the clustering of observations. Because it is necessary to cluster data at the individual level when running multi-level models with multiple observations per individual, we did not apply weights in our analyses.

We preregistered that our analyses for left-right ideological self-placement and personality would be sufficiently powered (.8) with 2,571 respondents. Yet, the effective sample size in our model for left-right ideology and personality was 2,202. A post-hoc sensitivity analysis showed that with a power of .8 and alpha level of .1, we could reliably detect an effect equal to a .02 increase in F-squared. The difference between the effects that we could reliably detect with our sample size and the preregistered sample is negligible (i.e., .002).

We also preregistered that our analyses for EU attitudes and personality would be sufficiently powered (.8) with 3,093 respondents. Yet, the effective sample size in our model for EU attitudes and personality was 1,905. A sensitivity analysis showed that with a power of .8 and alpha level of .1, we could reliably detect an effect equal to a .03 increase in F-squared. The difference between the effects that we could reliably detect with our sample size and the preregistered sample size is negligible (i.e., .006).

Results

We present in Figure 3 the unconstrained standardized regression coefficients for the effect of left vs. right self-placement, as the preregistered Chi-square goodness-of-fit test indicated that the model fit of the unconstrained model was significantly better than that of the constrained model ($\chi^2(9)=5366.7$, $p<.001$). We did not perform this test for EU attitude because this was only measured at two time-points. The model fit for the left vs. right model was good according to two measures (CFI=.97; SRMR=.03) and “acceptable” according to one measure (RMSEA=.10) (see OA 2.2) (Byrne 1994; Hu and Bentler 1999; MacCallum et al. 1996).

Consistent with the conventional assumption in personality-politics research, we found lagged effects of closed personality on right-wing policy preferences (left panel, Figure 3). Lagged closed personality predicted more conservative ideological self-placement from waves 1-2 ($\beta=.02$, $se=.01$, one-sided $p=.02$) and waves 2-3 ($b=.04$, $se=.01$, one-sided $p<.001$), as well as more conservative EU attitudes between the two assessments ($b=.04$, $se=.01$, one-sided $p<.001$).

Next, we tested our preregistered hypothesis that lagged levels of political preferences predict current levels of closed personality (right panel, Figure 3). Indeed they did. Lagged conservative self-placement was positively associated with a closed personality from waves 1-2 ($\beta=.01$, $se=.01$, one-sided $p=.07$) and waves 2-3 ($\beta=.02$, $se=.01$, one-sided $p<.001$), but only significantly so at our preregistered threshold in the latter case. Meanwhile, lagged EU attitude was significantly associated with closed personality between the assessments ($\beta=.02$, $se=.01$, one-sided $p<.001$).

The results reported here do not change when we analyze conscientiousness and openness (reverse scored) separately (SI 2.5). As in the Netherlands, we find no evidence for political preferences causally influencing neuroticism and extraversion but suggestive evidence that becoming more right-wing decreases agreeableness (SI 2.6). The inclusion of control variables (gender, age, education, and income) does not change the results (SI 2.7).

In sum, the preregistered tests in Germany align with the Dutch LISS panel findings, suggesting that political preference exerts some causal influence on personality. Next, we turn to a preregistered test of our hypothesis with another trait that falls within the open vs. closed domain: authoritarianism (Johnston et al. 2017).

Preregistered test using the GSS panels in the US

We used GSS panels from the United States to test the hypothesis that political preferences exert causal influence on authoritarianism. We combined data from three of these panels – 2006-2008-2010, 2008-2010-2012 and 2010-2012-2014 – into one dataset. In each panel, data was collected in the spring and summer of each year. Data come from mixed-mode surveys in which respondents were either interviewed face-to-face or by phone.

Following (Stenner 2005), we used a two-item measure of authoritarianism in which respondents ranked values in terms of importance for child-rearing. The measure was computed in each GSS wave by averaging the ranking of “obedience” and the reverse-scored ranking of “thinking for oneself.”

For political preferences, we used measures of ideological self-placement, party identification, and attitudes toward abortion, LGBT rights, and social welfare. All political preference measures were coded so that a high score indicates a more right-wing (conservative) position. The Online Appendix provides the item wording for the authoritarianism and political preference measures (OA 3.1) and the Supplementary Information on Dataverse the descriptive statistics (SI 3.2), and psychometric properties (SI 3.3) of the measures. SI 3.4 provides the correlations between the personality and political preference variables.

We ran CLPMs with authoritarianism as the indicator of a closed personality. We also added a categorical variable representing which of the three GSS panels the data came from. While the RMSEA for these models was slightly above the cut-off-criteria for acceptable fit (RMSEA were roughly .15), CFI (>.90) and SRMR (<.05) indicated an acceptable fit (Hu and Bentler 1999; Byrne 1994; MacCallum et al. 1996) – see OA 3.2.³

Deviations from preregistration Our preregistration plan specified that we would also include a measure of anti-immigrant attitude, but we could not do so because this variable was not included in the actual GSS datasets.

Additionally, we preregistered that our analyses would be sufficiently powered (.8) to detect a very small effect size (increase in F-squared of .02) with 2,572 respondents (alpha=.1, and assuming a

³The CFI is .93 or higher in 2 out of the five models (Byrne 1994).

modestly strong correlation [$r=.6$] between the waves). However, due to missing data the effective sample sizes for models with each political preference measure – abortion ($N=781$), LGBT ($N=963$), conservatism ($N=1997$), partisanship ($N=2107$), and welfare ($N=2121$) – were smaller than the preregistered sample size. Post-hoc sensitivity analyses (Perugini et al. 2018) showed that with the achieved sample size, a power of .8 and alpha level of .1, we could reliably detect very small effect sizes that range from a .089 increase in F-squared (abortion) to a .054 increase in F-squared (welfare).

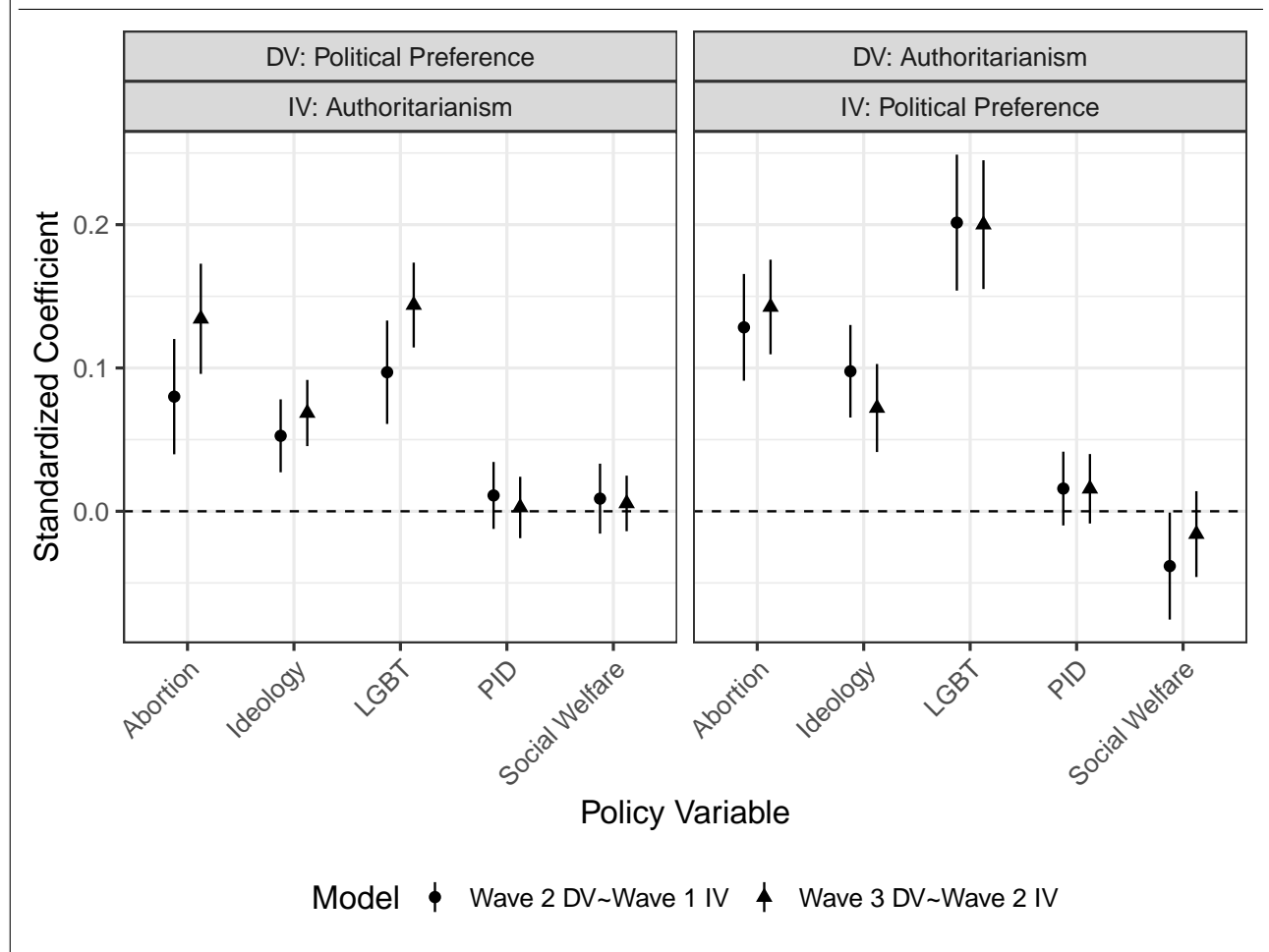
Results

We present in Figure 4 the unconstrained standardized regression coefficients from the CLPMs as the preregistered Chi-square goodness-of-fit test indicated that the fit of the unconstrained models was significantly better than that of the constrained models (see OA 3.3). As before, lagged levels of closed personality (authoritarianism) predicted right-wing policy preferences (left panel, Figure 4). Lagged closed personality predicted conservative abortion attitude from waves 1-2 ($\beta=.08$, $se=.02$, one-sided $p<.001$) and waves 2-3 ($\beta=.13$, $se=.02$, one-sided $p<.001$). Similar statistically significant patterns were found for ideological self-placement and LGBT attitudes. There were, however, no statistically significant effects of lagged authoritarianism on party identification or social welfare attitude (Left panel, Figure 4).

The right panel of Figure 4 presents the tests of our preregistered hypothesis that increases in right-wing political preferences are associated with subsequent increases in authoritarianism. Lagged conservative abortion attitude significantly predicted higher authoritarianism from waves 1-2 ($\beta=.13$, $se=.02$, one-sided $p<.001$) and waves 2-3 ($\beta=.14$, $se=.02$, one-sided $p<.001$), lagged right vs. left self-placement did so both from waves 1-2 ($\beta=.10$, $se=.02$, one-sided $p<.001$) and waves 2-3 ($\beta=.07$, $se=.02$, one-sided $p<.001$), and lagged LGBT rights did so from waves 1-2 ($b=.20$; $se=.02$; one-sided $p<.001$) and waves 2-3 ($b=.20$; $se=.02$; one-sided $p<.001$). In contrast, both lagged party identification and left-wing social welfare attitudes did not predict a more authoritarian personality in later waves. Analyzing each of the three panels separately does not change the substantive conclusions we draw based upon the preregistered pooled analyses (see SI 3.4). The inclusion of control variables (gender, age, education, and income) also does not change the results substantively (SI 3.5).

Thus, as in the German and Dutch panels, evidence was consistent with some causal influence of political preferences on personality traits.

FIGURE 4. Standardized regression coefficients from preregistered cross-lagged panel models in the United States. Dots are point estimates, error bars are preregistered 90% confidence intervals. The left panel presents the path from lagged personality on political preference in a subsequent wave – see path T in Figure 1. The right panel presents the path from lagged political preference on personality in a subsequent wave, path H in Figure 1. The complete output of the cross-lagged models can be found in Online Appendix 3.2.



EXPERIMENTAL EVIDENCE

The results from the three cross-lagged panel data sets were consistent with political preferences exerting some causal influence on self-reported personality traits. However, analyses of this sort are limited in their capacity to ascertain causality (Vaisey and Miles 2017; Rogosa 1980). We, therefore, supplemented our panel tests with a pair of preregistered experiments (Big Five here:

TABLE 2. Overview of the Design Characteristics of the Big Five Experiment and the Authoritarianism Experiment

Experiment	N	wave 1	wave 2: Political prime	wave 2: placebo control	wave 2: Dependent variable
Big Five	1,756 MTurk March 2020	Party identification (2-items)	Party identification (2-items)	Browsing preferences	Openness (3-item) Conscientiousness (3-item)
		Liberal-Conservatism (1-item)	Conservatism (1-item)	Internet use	
		Cultural conservatism (4-items)	Cultural conservatism (1-item)	Social network use	
		Economic conservatism (2-items)	Economic conservatism (1-item)	Online shopping	
		Presidential approval (1-item)	Presidential approval (1-item)	Online video games	
Authoritarianism	2,020 MTurk March-April 2020	Party identification (2-items)	Party identification (2-items)	Browsing preferences	Authoritarianism (4-items)
		Ideological self-placement (1-item)	Conservatism (1-item)	Internet use	
			Cultural conservatism (1-item)	Social network use	
			Economic conservatism (1-item)	Online shopping	
			Presidential approval (1-item)	Online video games	
			List attributes of party (2-items) (Klar 2014)	List attributes of device	

<https://osf.io/kqexp/>; Authoritarianism: here <https://osf.io/7bgrm/>). Each experiment consisted of an initial wave, in which political preferences were assessed, and a second wave (at least one week later) in which respondents were randomly assigned to be primed with politics or a non-political domain (placebo control condition) before completing measures of personality – the Big Five personality traits in the first experiment (Soto and John 2017) and authoritarianism in the second (Feldman and Stenner 1997). We hypothesized that making political preferences salient would cause people to report levels of personality traits that were more aligned with their previously assessed political preferences. Table 2 provides an overview of the two experiments. The experiments adhere to APSA’s Principles and Guidance for Human Subject Research see OA 7.2.

Data

We used Cloud Research’s platform for Mechanical Turk (MTurk) to recruit participants. We ensured that the workers had a high approval rating (95% or greater), that multiple workers were not coming from the same IP address, and that IP addresses that CloudResearch has identified as problematic were blocked. MTurk has performed well as a platform for recruiting research participants for survey-based experiments (Mullinix et al. 2015) with heterogeneous treatment effects (Coppock et al. 2018) and for studies of personality and political preferences (Clifford et al. 2015).

In the Big 5 experiment, the wave 1 survey was fielded on March 20-21, 2020, with a total of 2,193 respondents completing the survey. In wave 1, respondents were told that they would be re-invited to participate in a second wave conditional upon the quality of their responses. We fielded wave 2 of the survey roughly one week later, between March 29 and April 1, with 1,756 (80 percent) of the original respondents. This sample size was in line with our preregistered power analysis.

For the first wave of the Authoritarianism experiment, eligible participants either participated in the first wave of the Big Five experiment (N=2055) or a different study conducted by one of the present authors (N=3078) on March 9, 2020. We relied on the same power analysis as in the Big Five experiment and aimed to collect 2000 responses. We invited all wave 1 respondents and closed recruitment once we crossed the threshold. Since multiple respondents completed the survey simultaneously, our final N was 2020.⁴

Measures and Procedure

In wave 1 for the Big Five Experiment, respondents completed political preference measures: party identification, liberal-conservatism self-placement, cultural conservatism, economic conservatism, and presidential approval (see OA 5.1 for item wording and OA 5.2 for coding). We created a general right vs. left ideology composite to test our preregistered hypotheses, consisting of the measures of partisanship, presidential approval, liberal-conservatism self-placement, and social and economic policy preferences. We scaled this variable to range from 0 to 1 with higher scores meaning a more conservative position. The cultural conservatism scale was created by averaging the four cultural conservatism items from wave 1 and recoding to range from 0 to 1 with higher scores meaning more conservative. In the same way, we computed an economic conservatism variable using the two economic attitude items and a symbolic political preference variable using party identification, presidential approval, and liberal-conservatism self-placement.

In wave 1 of the Authoritarianism experiment, respondents completed measures of party identification and ideological self-placement, which were also combined into a symbolic political preference measure that ranged from 0 to 1 and with higher scores meaning more conservative (see OA 6.1 for item wording and coding). In the Supplementary Information file on the APSR Dataverse, we present descriptive statistics and psychometric properties of the ideology dimensions in the Big Five experiment (SI 5.1 and 5.2) and Authoritarianism experiment (SI 6.1).

⁴Omitting respondents in the Authoritarianism experiment who had also completed the Big Five experiment yields almost identical point estimates (SI 6.2), but, given that the sample size is halved, larger confidence intervals.

In wave 2 of each experiment, respondents were randomly assigned to the political prime or placebo control prime condition. In the political prime condition, respondents were told that the survey was about politics and were then administered political preference questions: partisanship, ideological self-placement, cultural conservatism, economic conservatism, presidential approval, and, in the authoritarianism experiment, an open-ended question about what they like about their own party and dislike about the other party (Klar 2014). In the placebo control condition, respondents were told that the survey was about internet browsing preferences and were then administered questions about their internet browsing preferences: preference for browsing the internet on different kinds of devices and the strength of this preference, hours per day spent on the internet, hours per day spent on social media, frequency of online shopping and online gaming, and, in the authoritarianism experiment, an open-ended question about what they like about their preferred internet browsing device and what they dislike about other ones. In each experiment, the number and format of manipulation items were equivalent across both conditions (See the Online Appendix for exact item wording in Big Five experiment (OA 5.1.2) and Authoritarianism experiment (OA 6.1)). We provide randomization checks for the Big Five and Authoritarianism experiments in the Supplementary Information (SI 5.3, SI 6.3) and outcome neutral quality checks for the Big Five Experiment in the Supplementary Information (SI 5.3).

Immediately following the manipulation in the Big Five experiment, respondents completed the 15-item BFI-2-XS, a valid and reliable short Big Five inventory with three items per trait (Soto and John 2017). Item wording can be found on the Online Appendix (OA 5.1.2), while descriptive statistics (SI 5.1), and psychometric properties (SI 5.2) are provided in the Supplementary Information on Dataverse. Immediately following the manipulation in the authoritarianism experiment, respondents completed a four-item authoritarianism measure with each item presenting a pair of traits and asking respondents to consider which of these they believed was more important to instill in children Feldman and Stenner (1997). Based on recent evidence (Bakker et al. 2020), we instructed respondents to rate preference for one or the other trait on a 5-point bipolar scale instead of having them make dichotomous choices. Items were scaled so that a high score meant the more authoritarian option and averaged. See OA 6.2.2 for the item wording.

Analytical strategy

In the Big Five experiment, we treated openness (reverse-scored) and conscientiousness as two measures of a “closed-personality” in a multilevel model with a random intercept for each person to account for the nested structure of the data. This approach, which was preregistered, maximizes power and simplifies the presentation of results. In essence, it treats openness and conscientiousness as a repeated measure of a “closed-personality.” In both experiments, our primary analysis regressed closed-personality traits (measured in wave 2) on wave 1 political preferences (high=conservative), a dummy variable capturing whether participants were in the politics prime (1) or placebo control (0) condition, the interaction between political preference and the treatment dummy, and the covariates gender, age, education, race, and a dummy variable indicating if the personality variable for that observation measured openness or conscientiousness.

If the correlation between political preferences measured in wave 1 and personality measured in wave 2 is stronger in the politics salient condition than the placebo control condition, this would indicate that people altered their self-reported personality to match their political preferences when primed with politics. Therefore, the interaction effect is the parameter of interest. As we proposed a directional prediction of a positive interaction effect, we preregistered one-sided hypothesis tests with a p-value of .05.

Deviations from the preregistration We deviated from the preregistration in a few ways in the Big Five experiment. First of all, due to budget constraints, we omitted the “terrorism” and “deporting undocumented immigrants” items belonging to the cultural conservatism scale and the “spending on health and education” items belonging to the economic conservatism scale. Second, we preregistered that we would only invite those who passed an attention check to complete the second wave survey. In the Big Five Experiment, we inadvertently invited those who did and did not pass the attention check. As such, our sample consists of people who passed (N=1,543; 88%) and those who did not (N=213; 12%) passed the attention check. Following our pre-analysis plan, we present the results including only those respondents who passed the attention check. Rerunning the models including those who failed the attention check did not substantially change the findings (see SI 5.8).

In the Authoritarianism experiment there were no deviations from the preregistration.

Results

We start with the results from the Big Five experiment. The average marginal effects of wave 1 global right-wing (conservative) political preferences on wave 2 personality in the politics prime and the placebo-control (internet) condition appear in the top-left panel of Figure 5. Consistent with prior findings, there is a positive association between conservative policy preferences and a “closed” personality. The effect of political preferences on personality is stronger in the politics condition than in the internet condition, although the interaction effect was not statistically significant at our preregistered threshold ($b=.04$, $se=.03$, one-sided $p=.08$, see top left panel of Figure 5).

Next we tested the political preference subscales, starting with symbolic ideology (see top-right column of Figure 5). Here, we find that the association between ideology and personality was significantly stronger in the political prime condition than the placebo control condition ($b=.04$, $se=.02$, one-sided $p=.03$). Decomposing symbolic ideology into party identity (row 2, left-hand panel, of Figure 5; $b=.04$, $se=.02$, one-sided $p=.03$), ideology (row 2, right-hand panel, of Figure 5; $b=.04$, $se=.02$, one-sided $p=.04$) and Trump approval (row 3, left-hand panel, of Figure 5; $b=.03$, $se=.02$, one-sided $p=.04$) we find comparable evidence across the three components.

Our preregistered test for cultural ideology shows no statistically significant difference in the strength of the association between cultural conservatism and personality across the conditions ($b=.02$, $se=.03$, one-sided $p=.27$) – see the right-hand panel on the third row of Figure 5. Turning to our preregistered test for economic conservatism, we find that the association between this and personality is stronger in the political prime condition than the placebo control condition. However, the interaction was not statistically significant at our preregistered threshold ($b=.04$, $se=.03$, one-sided $p=.08$, see bottom row of Figure 5).

We conducted two additional tests which were not preregistered. First, we tested whether the prime’s effect was non-linear (Hainmueller et al. 2019). As reported in the Supplementary Information file (see Dataverse), the prime had symmetric effects on each key variable’s upper and lower tertiles (see SI 5.5). Second, we analyzed openness and conscientiousness separately and found that the interaction

effects were in the expected direction for both, but that effect sizes and p-values differed across the tests (see SI 5.6). We did preregister to also explore the effects of the politics prime on the other Big Five traits. We did not find much evidence that priming politics causes stronger links between previously assessed political preferences and levels of neuroticism or extraversion (see SI 5.7). But, consistent with evidence from the CLPM-models using the German panel, we find that priming politics makes right-wing people report lower levels of agreeableness.

Turning to the authoritarianism experiment, we found that the association between the pre-treatment right-wing political preference measures and authoritarianism were stronger in the political prime condition than in the placebo control condition (Figure 6). However, this difference was only statistically significant at our preregistered threshold for ideological self-placement ($b=.06$, $se=.03$, one-sided $p=.02$).

In exploratory analyses, we found - unlike in the Big Five experiment - the pattern is non-linear. Figure 6 plots the Average Marginal Effect of the political prime by levels of ideological self-placement (upper panel of Figure 7), party identity (middle panel of Figure 7), and symbolic political preference composite score (bottom panel of Figure 7).⁵ Across tests, we see that the politics prime induced liberals and Democrats to report less authoritarian attitudes (Ideology: $AME=-.04$, $se=.02$, one-sided $p=.002$; Party Identity: $AME=-.03$, $se=.01$, one-sided $p=.01$; Symbolic Identity: $AME=-.02$, $se=.01$, one-sided $p=.05$). However, the prime did not affect conservatives/Republicans, or, except for symbolic political preference, moderates.

Individual data meta-analysis of the experiments

Finally, we conducted an individual data meta-analysis, which we did not preregister, pooling data from the two experiments to improve statistical power. We ran a multi-level model, in which closed personality was regressed on political preference indicators, treatment, and the interactions between the two. We clustered standard errors at the individual level and included fixed effects for the ideological

⁵Levels of ideological self placement were “liberal” (1-3), “moderate” (4), and “conservative” (5-7), levels of party identification were “Democrat”, “Independent”, and “Republican” with leaners classified with partisans, and levels of symbolic political preference were based on tertiles.

FIGURE 5. Average marginal effect of wave 1 political preferences on wave 2 personality in the politics and internet conditions. Dots are point estimates, error bars are 90% confidence intervals. Full regression output is provided in Online Appendix 5.3.

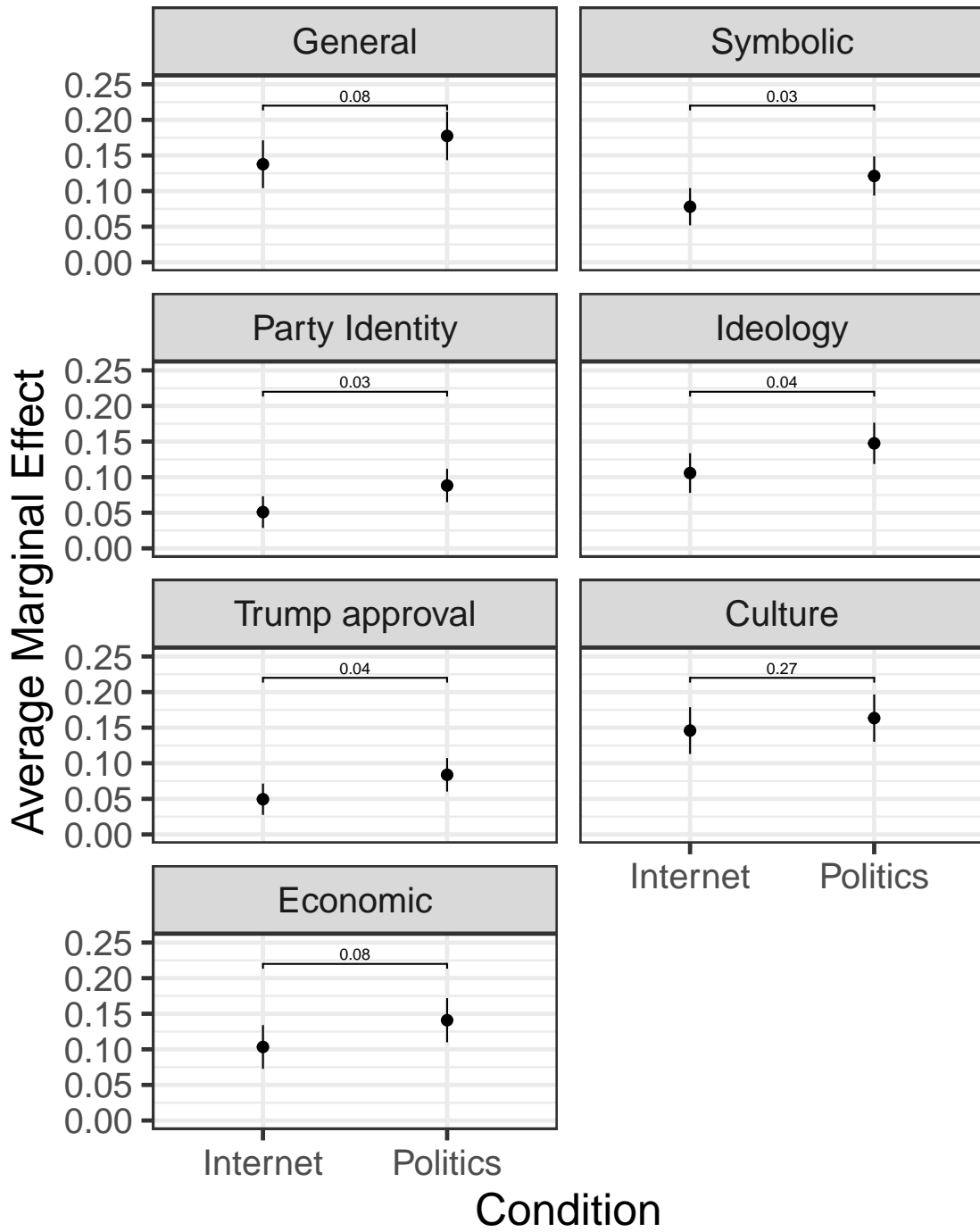


FIGURE 6. Average marginal effect of wave 1 political preferences on wave 2 authoritarianism in the politics and internet conditions. Dots are point estimates, error bars are 90% confidence intervals. Full regression output is provided in the Online Appendix 6.3.

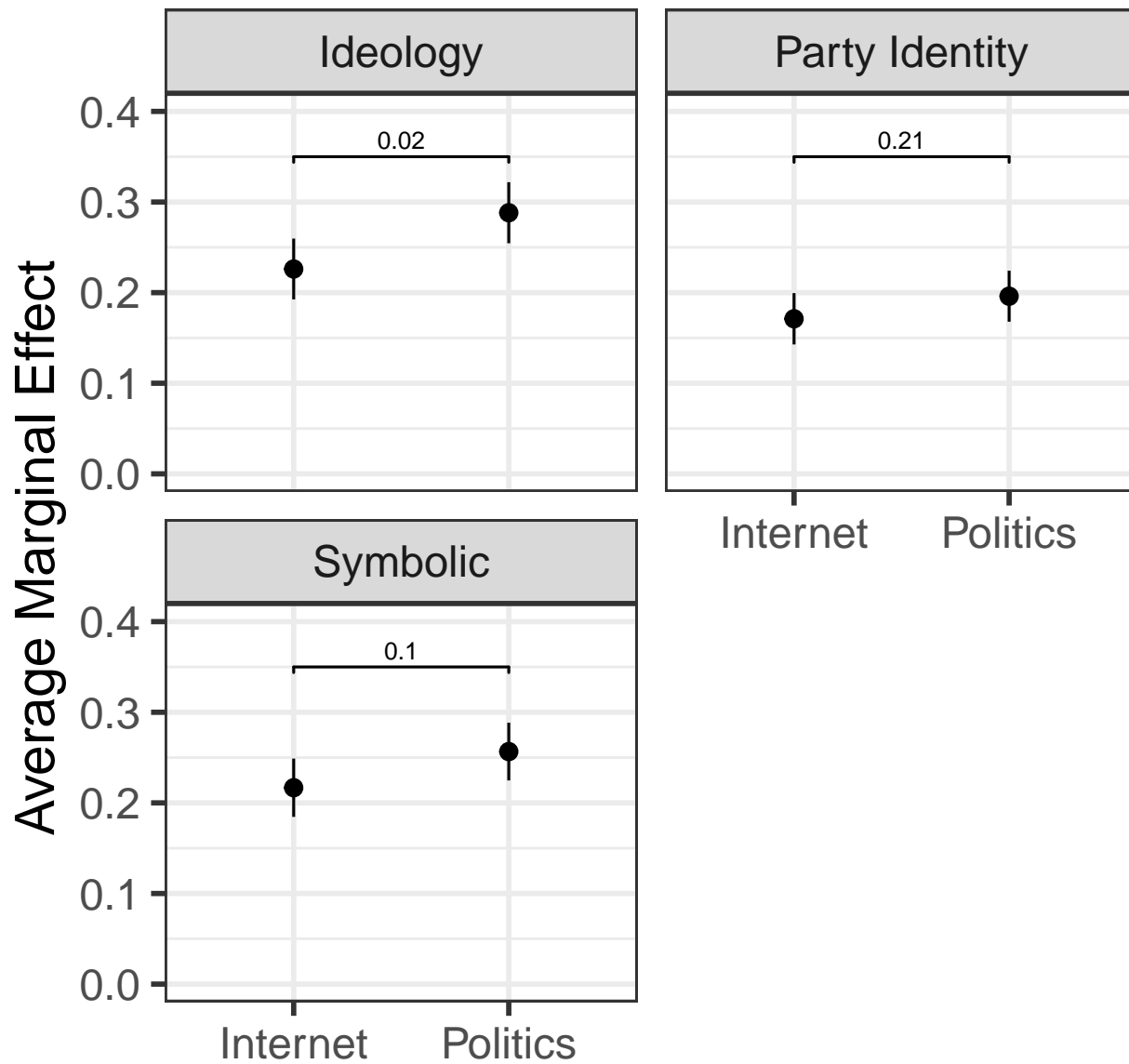
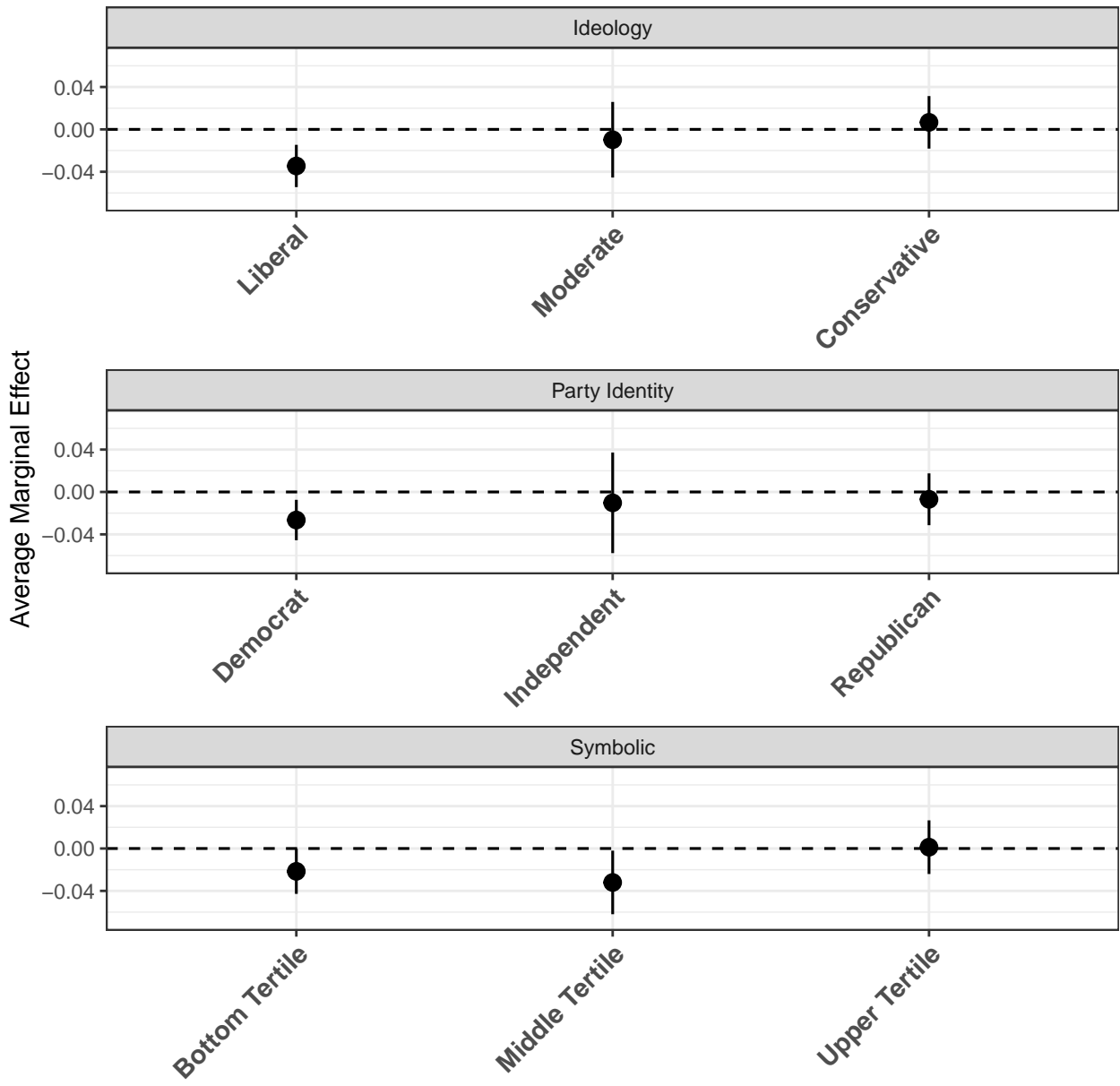


FIGURE 7. Effect of politics versus internet within categories of attitude variables. Dots are point estimates, error bars are 90% confidence intervals. Full regression output is provided in the Online Appendix 6.3.



dimensions and the study (Big Five or Authoritarianism). The results show that the association between ideology and personality was significantly stronger in the political prime condition than the placebo control condition ($b=.03$, $se=.02$, one-sided $p=.02$). Full regression output can be found in Online Appendix (OA) 8.

CONCLUSION

A great deal of research has addressed relationships between personality traits and political preferences (for an overview, see Federico and Malka 2018). Almost all of this work has involved cross-sectional data with self-report measures of personality taken in the context of a political survey. Though this work varies a great deal in terms of the personality attributes assessed and the theoretical frameworks guiding hypothesis tests, a key conclusion of much of this work is that political differences between the right and the left are caused, to an important degree, by a family of personality differences related to an open vs. closed orientation to behavior and experience. This, in turn, suggests that political polarization is difficult to mitigate through mutual understanding and compromise (Hibbing et al. 2014).

We theorized that the commonly observed cross-sectional relationships between personality traits and political preferences, in part, reflect the causal influence of political preferences on self-reports of personality. This may arise from people on the left and right adopting the behavioral and experiential patterns of politically similar others. It may also result from such people being motivated to view themselves as holding personality traits that are considered consistent with their political outlook, especially when politics is salient. Either way, the implications of this possibility are considerable. For one thing, this would mean that models depicting the one-way causal influence of personality traits on political preferences from cross-sectional data will be likely to overestimate this causal influence. For another, this would mean that political polarization may be exacerbated through a process whereby citizens are motivated to experience the world and act in ways that are characteristic of their political outlook, or at least perceive themselves to be doing so.

We examined this possibility using three large and long-spanning panel studies from three different countries (two of which were preregistered) and two survey experiments employing a novel two-wave design (both preregistered). In each study, we found some evidence consistent with political preferences

exerting causal influence on self-reported personality traits. Lagged effects of political preference on self-reported personality traits were observed in all three-panel studies, and making politics salient through the survey context resulted in self-reports of personality traits that were in some cases more aligned with pre-existing political preferences.

We must be clear that any causal claims derived from longitudinal survey data are on shaky ground. The traditional CLPM is more susceptible to omitted variable bias than RI-CLPM and other dynamic fixed-effects models, which control for time-invariant confounders. However, RI-CLPM and analogs are only appropriate if the lag structure is correctly specified (Vaisey and Miles 2017). Most social science surveys, which include only a few waves and are generally spaced years apart, are likely inappropriate for RI-CLPM.

Whereas the CLPM results suggest small mutual causal influences between personality traits and political preferences, the results from the RI-CLPM models in the Netherlands (see OA 1.4), Germany (see OA 2.3), and the US (see OA 3.4) suggest no causal influence in either direction. Again, we are skeptical of the latter results because of the high likelihood of a contemporaneous relationship between politics and personality (see Online Appendix 4 for a discussion) and the estimates' resulting downward bias. However, if the results from the RI-CLPM models are correct, this would be consistent with claims that a latent genetic factor that is itself distinct from both personality traits and political preferences drives variation on both (Hatemi and Verhulst 2015; Verhulst et al. 2012)

If, on the other hand, our conclusion about the causal influence of political preferences on self-reported personality traits is correct, it is essential to note that our evidence suggests that this effect is relatively small. This is consistent with the generally small effects observed in political science (Claassen 2020; Kalla and Broockman 2020; Shepherd and You 2020) and social science research more generally (Camerer et al. 2018).

Overall, the small effect sizes reported in this paper should be evaluated in the context of two considerations. First, even a small amount of endogeneity could severely bias the estimates of the effects of personality on political preference in the types of models routinely tested in this area. Consider a standard model regressing EU attitude on a closed personality trait. Using wave 3 EU attitudes and wave 2 personality from the Dutch LISS data would give a standardized regression coefficient of

.05 (se=.01, $p < .001$). This relationship's estimates from the cross-lagged model were half the size ($b = .02$, se=.12, $p = .08$). Second, this study involved large sample sizes sufficiently powered to detect the effect sizes of interest and, in all but one case, preregistered analysis plans. It is well known that these attributes of studies are associated with finding smaller effect sizes (Camerer et al. 2018; Schäfer and Schwarz 2019), because, for instance, selective reporting of statistically significant findings from small-N studies leads to an overestimation of effect sizes (Simmons et al. 2011).

To be sure, several of the present experimental findings were not statistically significant at the preregistered threshold for statistical significance. The experiments were sufficiently powered, and the treatments were based upon work by others (Klar 2014; Lavine et al. 2012). That being said, the primes were quite subtle. Indeed, making politics salient simply involved stating that the experiment was about politics and administering political preference questions – what amounts to “business as usual” in this line of work. While the results indicate that administering personality measures in the context of a political survey might overestimate influences of personality on political preference, the subtlety of the prime might understate the extent to which political salience can lead political opponents to diverge in terms of personality or self-perceptions thereof. In addition to this, it is important to keep in mind that the null findings for partisanship in the authoritarianism experiment align with the finding that authoritarianism is not causing partisanship in the GSS study and with recent work that questions the direct link between authoritarianism and partisanship (Wronski et al. 2018).

One potential explanation of the present findings is that the context of a political survey can bias self-reports of personality traits away from people's actual levels of the traits (Ludeke et al. 2016). This would have considerable methodological implications for survey research on personality and political attitudes. However, as important as this methodological issue is, the implications of such a conclusion would extend beyond survey measurement. Specifically, self-perceptions are psychologically important: Being motivated to view oneself in a particular way as a result of one's context and surroundings can influence one's behavior and judgments in a way that has real social consequences. Imagine a person who identifies as politically conservative. Spurred by the political context, they might view themselves as more conventional and averse to novel experiences than they actually are. Suppose this motivated self-perception is tied to their sense of self as a political conservative. In that case, they might see

the divide against liberals as reflecting a deep-seated personality attribute, surround themselves with others who see themselves as closed to new experiences, and perhaps select themselves into contexts that actually promote this trait. A significant threat associated with (American) polarization is that it leads people to construe various political and non-political differences in terms of an overarching dimension of societal conflict (McCoy et al. 2018). If personality trait perceptions, like perceptions of religiosity (Margolis 2018) and even demographic attributes (Egan 2020), are impacted by political leaning, this would likely aggravate the tendency of partisans to view the opposition as threatening to one's way of life.

One might wonder whether our conclusions are limited to the countries we studied or the specific samples we use. However, the personality-politics link is relatively consistent across Western countries, and samples (Malka et al. 2014; Sibley et al. 2012; Clifford et al. 2015), and the patterns we report here are similar to those identified in the literature. Nevertheless, we will only know if the present results generalize beyond these samples and contexts if others attempt replication, as we hope they will.

It is also important to acknowledge that we used relatively brief personality scales involving two (GESIS panel and GSS panel) or three (Big Five experiment) items per trait in some of our studies. This is typical of personality assessment in survey research, which often employs short personality measures for cost reasons. However, Bakker and Lelkes (2018) showed that highly abbreviated personality measures often lead to underestimating the association between personality and political measures. As such, our estimates could be considered conservative estimates of the effects of political preferences on personality and vice versa. That said, longer personality trait measures would be desirable in future work. Future work could also disentangle whether political preferences more strongly influence some of the lower sub-domains of personality (such as facets and aspects) compared to others (Xu et al. 2020).

In addition, we did not preregister expectations about the extent to which some policy preferences would have stronger effects on personality compared to others. There is considerable heterogeneity in this association across different political domains in the personality and policy preferences literature. In particular, the association between personality and right vs. left ideological self-placement (Sibley et al. 2012) and the association between personality & stances on cultural issues, are better established

than those involving economic issues (Bakker 2017; Johnston et al. 2017; Malka et al. 2014). Across our studies, we find suggestive evidence that economic issues such as welfare spending (GSS panel in the US) and reducing income differences (LISS panel in NL) have a weaker – and often not statistically significant – effect on personality compared to right vs. left ideological self-placement and cultural issues. However, these results were not predicted in advance. Independent preregistered replications will have to confirm if it is indeed the case that some political preferences have a stronger effect on personality compared to others.

Next, it is important to consider that the effects of political preferences on personality could be conditional on other individual characteristics. One might wonder whether the effects of political preferences on personality are stronger for who are older (Aidt and Rauh 2018) or those with higher levels of political sophistication (Malka et al. 2014; Johnston et al. 2017). We find no evidence that the effects in our studies are conditional age (SI 9.1) or upon education – as a proxy for sophistication – (SI 9.2). These tests were, however, not preregistered and lacked statistical power. It would be a logical next step in this research agenda to rigorously test preregistered predictions about heterogeneity in effects across subgroups using adequately powered studies.

Finally, this research did not address how context might condition the effect of politics on personality. Fatke (2017, p. 896) for instance, suggests that “people do not only calibrate their political attitudes in accordance with their personality traits, but they also adjust their traits to their core attitudes to adapt adequately to the demands of their current or anticipated social environment.” Unfortunately, the present panel data do not allow us to isolate the effects of potential contextual moderators. In addition to varying in the country, the three panels we use also vary substantially in terms of the measurement of personality and political preferences, time periods, sampling schemes, and mode. It is advantageous to test hypotheses with multiple datasets that vary in methods. However, a drawback is that with this small sample size of three-panel datasets and the presence of many methodological differences among them, it is impossible to discern in any systematic way whether variation in effect sizes are attributable to country or one of the many other sources of variability in the panels. Future work might attempt to delineate which types of contexts would render it adaptive to adjust personality traits to match one’s political orientation. Perhaps, for example, relatively polarized contexts characterized by highly salient

C. On data transparency

The data that support the findings of this study are openly available in the APSR Dataverse at <https://doi.org/10.7910/DVN/WZI945> for the GSS panel study and the experiments. The Dutch LISS panel and the German GESIS panel cannot be shared in the APSR Dataverse due to user agreements. On the APSR Dataverse we posted a document "Data Access" and we explain how to access these datasets. The code to reproduce all results reported here, in the Online Appendix and in the Supplementary Information on Dataverse can be found in the APSR Dataverse (<https://doi.org/10.7910/DVN/WZI945>). The research materials – item wording and materials – can be found in the Online Appendix placed online.

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