The Authoritarian Dynamic During the COVID-19 Pandemic:

Effects on Nationalism and Anti-Immigrant Sentiment

Running Head: THE AUTHORITARIAN DYNAMIC DURING THE COVID-19 PANDEMIC

Todd K. Hartman1*, Thomas VA Stocks1, Ryan McKay2, Jilly Gibson Miller1, Liat Levita1, Anton P. Martinez1, Liam Mason3, Orla McBride4, Jamie Murphy4, Mark Shevlin4, Kate Bennett5, Philip Hyland6, Thanos Karatzias7, Frédérique Vallières8, & Richard P. Bentall1

1 University of Sheffield, England

2 Royal Holloway, University of London, England

3 University College London, Research Department of Clinical, Educational and Health

Psychology, England

4 Ulster University, Northern Ireland

5 Liverpool University

6 Maynooth University, Republic of Ireland

7 Napier University, Scotland

8 Trinity College Dublin, Republic of Ireland

* Contact author

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Abstract

Research has demonstrated that situational factors such as perceived threats to the social order activate latent authoritarianism. The deadly COVID-19 pandemic presents a rare opportunity to test whether existential threat stemming from an indiscriminate virus moderates the relationship between authoritarianism and political attitudes toward the nation and outgroups. Using data from two large nationally representative samples of adults in the United Kingdom (N = 2,025) and Republic of Ireland (N = 1,041) collected during the initial phases of strict lockdown measures in both countries, we find that the associations between right-wing authoritarianism and 1) nationalism and 2) anti- immigrant attitudes are conditional on levels of perceived threat. As anxiety about the COVID-19 pandemic increases, so too does the effect of right-wing authoritarianism on those political outcomes. Thus, it appears that existential threats to humanity from the COVID-19 pandemic moderate expressions of authoritarianism in society.

Scholars have long argued that perceptions of ingroup threat are central to the "authoritarian personality" (Adorno et al., 1950; Altemeyer, 1981; Duckitt, 2001; Feldman & Stenner, 1997; Sales, 1972). Much of this research focuses on how outgroups pose what scholars label "normative" threats to the social order (i.e., threats to the values, traditions, and social diversity of the ingroup) or economic threats to material resources. For example, several studies demonstrate that perceived threat related to economic competition (Rickert, 1998), security and stability in society (Roccato & Russo, 2017; Roccato, Vieno & Russo, 2014), and social cohesion (Stenner, 2005) moderates the association between right-wing authoritarianism and prejudicial attitudes. However, other scholars argue that we should also consider how threats to one's very existence (e.g., the 9/11 terrorist attacks) interact with authoritarianism (Cohrs et al., 2005; Kossowska et al., 2011; Lavine et al. 2002, 2005; cf. Hetherington & Suhay, 2011). In fact, some researchers find that existential threats stemming from terrorism have larger effect sizes on political attitudes and behaviors than we might find from economic threats (e.g., see Merolla & Zechmeister, 2009).

The COVID-19 pandemic, which has already killed more than a million people worldwide, offers us a rare opportunity to test whether existential threat stemming from a virus moderates the relationship between authoritarianism and political attitudes toward the nation and outgroups. In line with the above-mentioned interactionist perspectives, we argue that perception of this existential threat will interact with authoritarianism, increasing its influence on ingroup favoritism and outgroup derogation (Feldman, 2003). What makes our study novel, however, is that this threat is not inherently derived from political or cultural contestation, nor from the deliberate actions of a hostile outgroup (Kossowska et al. 2011). Although important political actors, including those from the Trump Administration, have used political rhetoric to attach blame to other countries or immigrants (e.g., "Chinese virus" or "Wuhan virus"; Nossem, 2020; Kuo, 2020; Vazquez & Klein, 2020; Zarhloule, 2020), COVID-19 poses an indiscriminate, and

inherently global existential threat with no delimited enemy. Using nationally representative survey data collected from two European countries during the initial phases of the COVID-19 global pandemic, we investigate the following research question: Does the existential threat from COVID-19 strengthen the relationship between authoritarianism and prejudicial political attitudes?

Theory and Expectations

According to Strong (1990, p. 249), large-scale epidemics of fatal diseases present serious obstacles to social order by producing "fear, panic, stigma, moralising and calls to action", effects that are most pronounced when a disease is "new, unexpected, or particularly devastating". Drury and Tekin Guven (2020), however, critique this "panic narrative", pointing out that collective behavior in emergencies is more complex than this perspective suggests (see also Drury, Novelli & Stott, 2013; Ntontis, Drury, Amlôt, Rubin & Williams, 2019). In particular, while they can instil suspicion of others and the fear that they might transmit the disease, leading to prejudicial attitudes and behaviors (Strong, 1990; Adida et al. 2020), pandemics can also inspire acts of unity, compassion and solidarity (Aguirre, Torres, Gill & Hotchkiss, 2011; Drury, Cocking & Reicher, 2009; Ntontis & Rocha, 2020; Solnit, 2009), especially when there is a sense of shared fate (Drury et al., 2019). Nevertheless, from the initial stages of the current COVID-19 pandemic there have been reports of increased violence against people from black and minority ethnic backgrounds, particularly targeted against people from Asian communities (Aratani, 2020; Campbell, 2020). In addition, far-right political groups have reportedly used the pandemic to promote anti-immigration and anti-Muslim attitudes (BBC, 2020; Wilson, 2020).

Early work on the COVID-19 pandemic also noted an increase in nationalistic rhetoric to promote both the acceptance of legitimate measures designed to prevent the spread of disease and authoritarian policies disguised as such (Nossem, 2020; Zarhloule, 2020). Other research has demonstrated that perceived existential threat from the COVID-19 pandemic increases prejudicial attitudes toward outgroups, such as the Chinese (Tabri, Hollingshead & Wohl, 2020). Scholars have also documented a positive relationship between certain types of COVID-19 media exposure and the expression of prejudice toward foreigners (Sorokowski et al. 2020). However, much of this early work has not examined the role of classic psychological predictors of prejudice toward outgroups, such as right-wing authoritarianism or social dominance orientation, nor has it fully investigated the joint effect of predictors of prejudice and threat on prejudicial attitudes. More research on these predictors is warranted.

Right-wing Authoritarianism (RWA) and Social Dominance Orientation (SDO)

Classic work demonstrated the link between authoritarianism and ethnocentrism (Adorno et al., 1950), and more recent research has established both RWA and SDO, two individual-level right-wing dimensions, as robust, independent predictors of prejudice and intolerance (Altemeyer, 1981; Crawford and Pilanski, 2014; Diaz-Veizades, Widaman, Little & Gibbs, 1995; Duckitt, 2001; Sibley, Robertson & Wilson, 2006; Wilson & Sibley, 2013). In Duckitt's (2001; 2009) dual process motivational model, both RWA and SDO are conceptualised as value-attitude-belief dimensions that interact with social environmental factors. Early social and environmental experiences favor or cause personality dispositions; in turn, these dispositions encourage different world views, which then interact to generate motivational goals, such as the motivational goal of threat-control. Finally, value-attitude-belief dimensions, such as RWA or SDO, represent expressions of these motivational goals (Duckitt, 2001; 2009).

While the motivational goals behind these dimensions are chronically salient, external conditions can heighten their activation, and both RWA and SDO appear to be reactive to external circumstances (Feldman & Stenner, 1997; Duckitt, 2001; 2006; 2009; Duckitt and Fischer, 2003; Duckitt & Sibley, 2009, 2010; Duckitt, Bizumic, Krauss & Heled, 2010). However, RWA is in part an ideological response to fear, threat and uncertainty, and only for RWA, not SDO, do attitudinal manifestations appear to be consistently responsive to threat (Lindén, Björklind & Bäckström, 2018; Mirisola, Roccato, Russo, Spagna & Vieno, 2014; Oyamot, Borgida & Fisher, 2006; Rickert, 1998; Sibley et al. 2006; Stenner, 2005). For example, RWA interacts with the perception of threat to both increase support for anti-democratic policies, such as increased governmental surveillance power, and to decrease support for human rights (Cohrs, Maes, Moschner & Kielmann, 2007; Kossowska et al. 2011). Moreover, people high in RWA are motivated to support any measures they perceive to be protective of the ingroup regardless of negative consequences, including the use of violence to address social problems (Fetchenhauer & Bierhoff, 2004; Kossowska et al. 2011). The characteristics of prejudice associated with RWA also reflect its underlying cognitive and motivational schemas (Duckitt, 2001). Individuals high in RWA typically characterise outgroups as disorderly, immoral, deviant, and threatening to ingroup safety; conversely, ingroup members are normal, socially conforming, moral, and under threat from outgroups (Duckitt, 2001; Jackson & Gaaertner, 2010; Schaffer & Duckitt, 2013).

High levels of RWA and SDO are thus associated with less favorable attitudes towards migrant groups (Craig & Richeson, 2014; Duckitt & Sibley, 2010; Oyamot et al. 2006; Perry, Paradies & Pedersen, 2015). Indeed, both RWA and SDO predict an increased willingness to engage in the active persecution of immigrants, though the situations that prime this response in

people high in RWA and SDO are different: Those high in RWA are more willing to engage in the active persecution of immigrants who are *unwilling* to assimilate to the predominant culture, while those high in SDO are more likely to persecute immigrants who are *willing* to assimilate (Thomsen, Green, and Sidanius, 2008). Furthermore, Duckitt and Sibley (2010) found that RWA predicts opposition to immigration only when the immigrant group is perceived to be an economic or cultural threat, while SDO consistently predicts negative attitudes toward immigrants irrespective of perceived threat. Perry et al. (2015) also demonstrated that RWA can suppress the pro-social and pro-immigrant effect of other dimensions, including religiosity. Finally, higher levels of RWA also predict higher levels of nationalism, belief in the superiority of one's own nation, patriotism, and attachment to one's country and the values for which it stands (Osborne, Milojev & Sibley, 2017).

Despite this evidence, little is known about exactly how RWA and SDO might interact with the existential threat posed by a global outbreak of a lethal, contagious disease to affect wider expressions of authoritarian attitudes. There is, however, some instructive research in this area, though it does tend to be predicated upon different (and sometimes competing) psychological processes for RWA and SDO, which has implications for different causal models. For instance, Mirels and Dean (2006) found that those scoring higher in RWA overestimated the proportion of LGBT+ people living with HIV, while Collani, Grumm and Streicher (2010) found that both RWA and SDO predicted prejudice toward people living with HIV or AIDS, effects which were partially mediated by (false) beliefs about the personal risk of infection. Likewise, upon investigating attitudes related to the Ebola epidemic in a German sample, Stümer et al. (2017) reported that the relationship between RWA and support for quarantining African migrants and closing the border was mediated by normative threat. Meanwhile, however, Green

et al. (2010) discovered that SDO mediated the relationships between germ aversion and support for assimilationist immigration criteria, health immigration criteria, and the desire to reduce the percentage of foreigners.

In short, we believe that there is scope to test classic theories of RWA and SDO during the current global pandemic, particularly with respect to the former's sensitivity to threat. We thus hypothesize that disease-related threat will moderate the relationship between RWA and ethnocentric attitudes: As levels of existential threat increase, so too should the association between RWA and ethnocentric attitudes (i.e., nationalism and anti-immigrant sentiment). In contrast, we do not expect disease-related threat to moderate the association between SDO and prejudicial attitudes.

Data and Methods

We analyze national survey data collected from the United Kingdom and Republic of Ireland during the early phases of lockdown in both countries as part of the COVID-19 Psychological Research Consortium (C19PRC) Study. C19PRC is a longitudinal, multi-country study that aims to assess the psychological, social, economic, and political impact of the COVID-19 virus in the general population (Authors, 2020). The first waves of the study, C19PRC-UKW1 in the UK and C19PRC-ROIW1 in the Republic of Ireland, involved the recruitment of large national samples of adults from the UK (N = 2,025) and Ireland (N = 1,041) by the survey company Qualtrics. Data for the UK was collected between March 23rd to 28th, 2020, approximately eight weeks after the first confirmed COVID-19 case there and during a time of rapidly increasing infections (strict lockdown measures were announced by the British prime minister on March 23rd, the same day our survey was fielded). Data for the Irish sample was collected between March 31st and April 5th, 2020, approximately four weeks after the first confirmed case of COVID-19 in Ireland (and two days after the Irish Taoiseach announced that people were not to leave their homes except for very limited purposes).

Research suggests that Qualtrics approximates probability-based samples reasonably well when quotas are used (e.g., demographic characteristics and responses to other socio-political questions; Zack, Kennedy & Long, 2019). Thus, we employed stratified quota sampling methods to ensure that the data collected was representative in terms of age, sex, and household income in the UK, and the same demographic indicators plus geographic region in Ireland. Subsequent checks confirmed sample representativeness in terms of the number of people in the household and other important socio-demographic characteristics (for details of recruitment, sampling, and the complete list of measures administered, see Authors, 2020). The full panel dataset will be deposited to the UK Data Archive and Open Science Framework approximately six months after data collection for the project has been completed.

Key Measures

Nationalism: British/Irish nationalism was assessed by two items adapted from Davidov (2011): 1) "The world would be a better place if people from other countries were more like the British/Irish"; and 2) "Generally speaking, Britain/Ireland is a better country than most other countries." Responses were measured on 5-point Likert scales ranging from 1 "strongly disagree" to 5 "strongly agree." These items were combined into a single scale ranging from 0 to 1 (UK: M = 0.55, SD = 0.24, Cronbach's alpha = 0.80; ROI: M = 0.62, SD = 0.21, Cronbach's alpha = 0.70). The exact question wording for these and other psychological measures in this study, as well as descriptive statistics, are available in the Supplemental Appendix.

Anti-Immigrant Sentiment: Three items from the British Social Attitudes Survey (2015) were used to assess respondents' attitudes towards migrants: 1) "Would you say it is generally bad or good for Britain's/Ireland's economy that migrants come to Britain/Ireland from other countries?" (using a 10-point scale ranging from 1 "extremely bad" to 10 "extremely good"; reverse coded and scaled from 0 to 1 to indicate anti-immigration attitudes; UK: M = 0.41, SD = 0.26; ROI: M = 0.41, SD = 0.26); 2) "Would you say that Britain's/Ireland's cultural life is generally undermined or enriched by migrants coming to live here from other countries?" (using a 10-point scale ranging from 1 "undermined" to 10 "enriched"; reverse coded and scaled from 0 to 1; UK: M = 0.44, SD = 0.28; ROI: M = 0.41, SD = 0.27); and 3) "Some migrants make use of Britain's/Ireland's schools, increasing the demand on them. However, many migrants also pay taxes which support schools and some also work in schools. Do you think that, on balance, migration to Britain/Ireland reduces or increases pressure on the schools across the whole of Britain/Ireland?" (using a 5-point scale ranging from 1 "reduces pressure a lot" to 5 "increases pressure a lot"; scaled to range from 0 to 1; UK: M = 0.60, SD = 0.25; ROI: M = 0.59, SD = 0.25).

Right-Wing Authoritarianism (RWA): The 6-item Very Short Authoritarianism Scale (VSA; Bizumic & Duckitt, 2018) was used to assess respondents' levels of RWA. Items include

"What our country needs most is discipline, with everyone following our leaders in unity"; "God's laws about abortion, pornography, and marriage must be strictly followed before it is too late"; and "Our society does NOT need tougher government and stricter laws" (reverse-worded). Responses were collected on a 5-point Likert scale ranging from 1 "strongly disagree" to 5 "strongly agree." Bizumic and Duckitt (2018) report satisfactory internal consistency and predictive validity; these 6 items were combined into a single scale ranging from 0 to 1 (UK: M = 0.51, SD = 0.17, alpha = 0.67; ROI: M = 0.52, SD = 0.17, alpha = 0.58).

Social Dominance Orientation (SDO): Respondents' levels of social dominance were assessed using the 8-item SDO₇ scale (Ho et al., 2015). Respondents were asked the extent to which they opposed/favored statements such as: "An ideal society requires some groups to be on top and others to be on the bottom"; "some groups of people are simply inferior to other groups"; and "we should do what we can to equalize conditions for different groups" (reverse-scored). Responses ranged from 1 "strongly oppose" to 5 "strongly favour" on a 5-point Likert scale. Ho et al. (2015) report good criterion and construct validity; these 8-items were combined into a single ranging from 0 to 1 (UK: M = 0.36, SD = 0.18, alpha = 0.84; ROI: M = 0.41, SD = 0.21; Cronbach's alpha = 0.79).

COVID-19 Anxiety (Proxy for Existential Threat): Respondents were asked "how anxious are you about the coronavirus COVID-19 pandemic?" and responded by positioning a slider anchored by 0 "not at all anxious" and 100 "extremely anxious". This produced continuous scores ranging from 0 to 100 with higher scores reflecting higher levels of COVID-19-related anxiety; for ease of interpretation we rescaled this item to range from 0 to 1 (UK: M = 0.68, SD = 0.25; ROI: M = 0.72, SD = 0.24). Importantly, this question was asked after we measured attitudes toward our key outcomes and psychological constructs to avoid inadvertently priming responses to RWA, SDO, nationalism, and anti-immigrant sentiment.

Political and Ideological Orientations: Three questions, adapted from the 2014-2023 British Election Study (2017), asked respondents how they would describe their 1) political orientation (on a 10-point scale ranging from 1 "left-wing" to 10 "right-wing"; rescaled to range from 0 to 1; UK: M = 0.48, SD = 0.21; ROI: M = 0.46, SD = 0.21); 2) ideological orientation toward fiscal issues such as taxes and government spending (on a 10-point scale from 1 'very liberal' to 10 'very conservative'; rescaled to range from 0 to 1; UK: M = 0.49, SD = 0.22; ROI: M = 0.47, SD = 0.22); and 3) ideological orientation toward social issues such as abortion and same-sex marriage (on a 10-point scale from 1 "very liberal" to 10 "very conservative"; rescaled to range from 0 to 1; UK: M = 0.36, SD = 0.27; ROI: M = 0.35, SD = 0.31).

Socio-Demographic Control Variables: Participants self-reported their age (in years; rescaled from 0 to 1 for interpretability; UK: M = 0.42; SD = 0.24; ROI: M = 0.39, SD = 0.23), gender (dummy-coded with females plus 6 respondents with non-traditional gender identities in the UK and 3 in Ireland serving as the reference category; UK: M = 0.48; SD = 0.50; ROI: M = 0.48, SD = 0.50), educational attainment (dummy-coded with those having earned a bachelor's degree or higher as the reference category; in the UK low education indicates those who have no formal qualifications or only technical qualifications, M = 0.13; SD = 0.34, while moderate education refers to those with GCSEs, A-Levels, or a Diploma, M = 0.43; SD = 0.49; in Ireland, low education identifies anyone who below a post-secondary qualification, M = 0.30, SD = 0.46), gross household income in 2019 (UK: 5 income bands rescaled from 0 to 1, M = 0.50, SD = 0.36; ROI: 10 income bands rescaled from 0 to 1, M = 0.25, SD = 0.24), and whether they were born outside of the country (dummy coded with those born in the UK/Ireland as the reference category; UK: M = 0.09; SD = 0.29; ROI: M = 0.29; SD = 0.46).

The zero-order correlations for all measures are presented in Table 1.

Table 1. Zero-Order Correlation Matrix Among Key Variables (UK below diagonal, Ireland above diagonal)

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	Republic of Ireland															
Ireland → UK ↓	Nat	Econ	Cul	Res	RWA	SDO	Anx	L-R	Soc Con	Fis Con	Age	Male	Non- native	Low Ed	Mod Ed	Income
Nationalism	1	0.05	0.06	0.08	0.07	0.07	0.14	0.11	0.05	0.05	0.09	0.07	-0.16	0.01	1	0.06
Economy	0.28	1	0.74	0.36	0.16	0.21	0.05	0.01	0.13	0.04	0.04	-0.06	-0.15	0.18	1	-0.07
Culture	0.29	0.79	1	0.34	0.20	0.29	0.05	0.06	0.17	0.04	0.05	0.02	-0.12	0.21	1	-0.03
Resources	0.18	0.42	0.42	1	0.07	-0.04	0.07	0.00	0.01	0.05	0.23	-0.02	-0.13	0.07	1	0.03
RWA	0.36	0.37	0.43	0.28	1	0.23	0.19	0.29	0.41	0.26	0.16	-0.05	0.04	0.08	1	-0.01
SDO	0.31	0.28	0.32	0.05	0.33	1	-0.03	0.28	0.24	0.19	-0.11	0.10	0.05	0.05	1	0.10
Anxiety	0.04	-0.02	-0.03	0.03	0.12	-0.07	-	0.07	0.08	0.06	0.17	-0.04	-0.07	-0.01	1	0.02
Left-Right	0.36	0.23	0.28	0.19	0.38	0.44	0.04		0.36	0.49	0.09	0.06	0.01	0.00	-	0.13
Social Con	0.30	0.25	0.29	0.11	0.45	0.39	0.03	0.49		0.46	0.06	0.09	-0.02	0.08		-0.01

Fiscal Con	0.37	0.18	0.21	0.18	0.36	0.40	0.01	0.67	0.53		0.06	0.03	-0.06	-0.04		0.1
Age	0.13	0.09	0.13	0.27	0.19	-0.01	0.06	0.18	0.09	0.17	1	0.15	-0.08	0.02		0.07
Male	0.09	-0.06	-0.01	-0.01	-0.04	0.12	-0.10	0.10	0.15	0.12	0.21	1	-0.10	0.03		0.16
Non-UK	-0.05	-0.13	-0.13	-0.13	-0.02	0.00	0.00	-0.04	0.00	-0.02	-0.12	-0.04	-	-0.08		-0.12
Low Ed	0.07	0.11	0.13	0.10	0.12	0.02	-0.01	0.04	0.08	0.06	0.18	0.07	-0.03	-		-0.22
Moderate Ed	0.08	0.15	0.16	0.04	0.10	0.06	0.02	0.07	0.05	0.03	-0.02	-0.05	-0.06	-0.34		
Income	0.02	-0.16	-0.12	0.03	-0.02	0.05	0.05	0.12	-0.03	0.15	0.08	0.11	0.03	-0.11	-0.17	

United Kingdom

Notes: Cell entries contain zero-order correlation coefficients (Pearson's r). Data from the United Kingdom (N=2,025) presented below the diagonal; Republic of Ireland (N=1,041) presented above the diagonal.

Results

To test whether existential threat moderates the association between authoritarianism and political attitudes, we regressed nationalism and the three anti-immigrant sentiment outcomes on RWA, COVID-19 anxiety, and their interaction (product term), as well as SDO (and its interaction with COVID-19 anxiety) and other socio-demographic control variables. The condensed results of these regressions are presented in Table 2 for the UK and Table 3 for the Irish data (the full model results are available in Tables A3 and A4 in the Supplemental Appendix).. Ordinary least squares regression was used to estimate all models because of the pseudo-continuous nature of the outcomes and for ease of interpretation; however, the results do not differ substantially if we estimate models with ordinal outcomes using ordered logistic regression. The R code and output used for all data manipulation and analyses is available on the Open Science Framework website (https://osf.io/w5ktb/).

To begin, the RWA * COVID-19 anxiety interaction is in the hypothesised direction (positively signed) in all of the regression models that we conducted using data from two different countries. In other words, the estimated effect of RWA increases in conjunction with perceived anxiety about the threat posed by COVID-19, and the size of these estimates is relatively large compared to other predictors in the models using the same 0 to 1 scale (see Table A3 for the full set of estimates). In the UK data (Table 2), the estimates for the unadjusted (without demographic and political covariates) interaction between RWA and anxiety are statistically significant at the .05 level for two of the four outcomes: COVID-19 anxiety moderates the effect of RWA on nationalism (b = 0.34, se = 0.12, p = 0.00; two-tailed) and anti-immigrant sentiment related to the economy (b = 0.33, se = 0.12, p = 0.01; two-tailed). The interaction is significant at the .10 level for the outcomes related to the notion that immigrants place pressure on resources (b = 0.24, se = 0.13, p = 0.06) and harm culture (b = 0.23, se = 0.13,

p = 0.09; two-tailed). Importantly, these interaction effects are very similar even after introducing a range of socio-demographic and political covariates (i.e., the 'adjusted' estimates).

Table 2. Regression Results from the United Kingdom

	Nation	alism	Econ	nomy	Reso	ources	Cult	ure
	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted
	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates
(Intercept)	.34**	.25**	.20**	.23**	.48**	.38**	.07	.07
	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)
	[.25, .43]	[.16, .34]	[.11, .30]	[.14, .33]	[.39, .58]	[.28, .48]	[03, .17]	[03, .17]
	p=.00	p=.00	p=.00	p=.00	p=.00	p=.00	p=.16	p=.17
RWA	.19*	.08	.27**	.20*	.28**	.20*	.46**	.37**
	(.09)	(.08)	(.09)	(0.09)	(.09)	(.09)	(.10)	(.09)
	[.01, .36]	[09, .24]	[.09 .45]	[.02, .37]	[.09, .46]	[.02, .38]	[.27, .65]	[.18, .55]
	p=.03	p=.38	p=.00	p=.03	p=.00	p=.03	p=.00	p=.00
SDO	.28**	.18*	.28**	.27**	05	03	.49**	.47**
	(.09)	(.08)	(.09)	(.09)	(.09)	(.09)	(.10)	(.09)
	[.11, .45]	[.01, .34]	[.11, .46]	[.10, .44]	[23, .13]	[20, .15]	[.31, .68]	[.28, .65]
	p=.00	p=.04	p=.00	p=.00	p=.62	p=.78	p=.00	p=.00
COVID-19 Anxiety	16* (.07) [28,03] p=.02	14* (.06) [26,01] p=.03	19** (.07) [33,06] p=.00	17** (.07) [30,04] p=.01	12† (.07) [26, .02] p=.08	10 (.07) [23, .04] p=.15	08 (.07) [22, .06] p=.25	06 (.07) [19, .08] <i>p</i> =.41
RWA * Anxiety	.34**	.34**	.33**	.27*	.24†	.21†	.23†	.17
	(.12)	(.12)	(.12)	(.12)	(.13)	(.12)	(.13)	(.13)
	[.11, .57]	[.11, .56]	[.08, .57]	[.03, .51]	[01, .49]	[04, .45]	[03, .48]	[08, .42]
	p=.00	p=.00	p=.01	p=.03	p=.06	p=.09	p=.09	p=.18

SDO * Anxiety	.02 (.12) [21, .25] p=.89	02 (.11) [25, .20] p=.84	06 (.12) [30, .19] p=.65	04 (.12) [28, .19] p=.72	04 (.13) [29, .21] p=.76	09 (.12) [33, .15] p=.46	28* (.13) [54,03] p=.03	27* (.13) [52,03] p=.03
F	85.08**	43.14**	83.93**	43.65**	36.75**	26.41**	116.68**	56.81
Adjusted R^2	.17	.23	.17	.23	.08	.15	.22	.18

Notes: N = 2,025. Cell entries are unstandardized estimates from an ordinary least squares regression, with standard errors in parentheses, 95% confidence intervals in brackets, and rounded *p-values*. Bolded entries show the estimates from the hypothesized RWA * anxiety interaction. Estimates for the control variables are not presented here; the full model results with these estimates are available in Table A3 in the Supplemental Appendix. *p-values*. ** p < .01; * p < .05; † p < .10.

In the Irish data (Table 3), the estimates for the unadjusted interaction between RWA and anxiety are statistically significant at the .05 level for three of the four outcomes: COVID-19 anxiety moderates the effect of RWA on nationalism (b = 0.38, se = 0.16, p = 0.02; two-tailed), immigrants hurt the economy (b = 0.43, se = 0.19, p = 0.02; two-tailed), and immigrants harm culture (b = 0.66, se = 0.19, p = 0.00; two-tailed). The interaction is not statistically significant for the outcome related to resources (b = 0.23, se = 0.19, p = 0.22). Once again, these interaction effects are largely unchanged in terms of their estimated effect and statistical significance even after introducing a range of socio-demographic and political covariates. In sum, we take the results from the UK and Ireland as strong evidence supporting our expectation regarding the interaction between RWA and COVID-19 threat.

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¹ We also calculated adjusted p-values for the false discovery rate -- that is, the expected proportion of false discoveries amongst the rejected hypotheses -- using a Benjamini & Hochberg (1995) method from the 'multcomp' package in R. Overall, the RWA * anxiety interaction was statistically significant at the p < .05 level (two-tailed) in 3 out of 8 models from the UK and Ireland and at the p < .10 in 5 out of 8 cases.

Table 3. Regression Results from the Republic of Ireland

	Nation	nalism	Econ	omy	Reso	urces	Culture		
	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted	
	Estimates	Estimates							
(Intercept)	.61**	.60**	.31**	.37**	.64**	.57**	.29**	.31**	
	(.06)	(.06)	(.07)	(.08)	(.07)	(.07)	(.07)	(.08)	
	[.49, .73]	[.48, .73]	[.16, .45]	[.22, .52]	[.50, .78]	[.43, .72]	[.14, .43]	[.16, .46]	
	p=.00	p=.00							
RWA	24*	24	13	12	05	06	26†	23	
	(.12)	(.12)	(.14)	(.14)	(.14)	(.14)	(.15)	(.14)	
	[48,00]	[48,00]	[41 .15]	[40, .16]	[33, .23]	[34, .21]	[55, .03]	[52, .05]	
	p=.05	p=.05	p=.37	p=.41	p=.71	p=.66	p=.08	p=.11	
SDO	.09	.07	.33**	.34**	17	11	.53**	.51**	
	(.10)	(.10)	(.12)	(.12)	(.12)	(.12)	(.12)	(.12)	
	[11, .29]	[12, .27]	[.10, .57]	[.11, .57]	[40, .06]	[34, .12]	[.29, .77]	[.28, .74]	
	p=.37	p=.48	p=.01	p=.00	p=.16	p=.35	p=.00	p=.00	
COVID-19 Anxiety	07 (.09) [24, .10] p=.43	09 (.09) [26, .08] p=.30	13 (.10) [33, .08] p=.22	13 (.10) [33, .07] p=.19	12 (.10) [32, .08] p=.24	13 (.10) [32, .07] p=.19	19† (.10) [39, .01] p=.07	18† (.10) [38, .02] p=.08	
RWA * Anxiety	.38*	.38*	.43*	.37*	.23	.18	.66**	.56**	
	(.16)	(.16)	(.19)	(.19)	(.19)	(.18)	(.19)	(.19)	
	[.07, .69]	[.07, .69]	[.06, .80]	[.00, .73]	[14, .60]	[18, .54]	[.28, 1.04]	[.19, .93]	
	p=.02	p=.02	p=.02	p=.05	p=.22	p=.33	p=.00	p=.00	

SDO *	01	.00	14	09	.15	.14	26	20
Anxiety	(.13)	(.13)	(.16)	(.15)	(.16)	(.15)	(.16)	(.16)
	[27, .25]	[25, .26]	[45, .17]	[39, .21]	[16, .45]	[16, .43]	[57, .06]	[50, .11]
	p=.92	p=.98	p=.37	p=.56	p=.35	p=.37	p=.11	p=.21
F	6.79**	5.76**	13.71**	11.96**	3.03*	6.97**	25.85**	16.15**
Adjusted R ²	.03	.06	.06	.12	.01	.07	.11	.16

Notes: N = 1,041. Cell entries are unstandardized estimates from an ordinary least squares regression, with standard errors in parentheses, 95% confidence intervals in brackets, and rounded *p-values*. Bolded entries show the estimates from the hypothesized RWA * anxiety interaction. Estimates for the control variables are not presented here; the full model results with these estimates are available in Table A4 in the Supplemental Appendix. *p-values*. ** p < .01; * p < .05; † p < .10.

In contrast, the SDO * COVID-19 anxiety interaction is in the wrong direction in three of the four unadjusted models in both the UK (Table 2) and Ireland (Table 3); the results do not change when covariates are included in the models. Moreover, the SDO * anxiety interaction is only statistically significant for the outcome related to culture in the Irish (b = -0.28, se = 0.13, p = 0.03; two-tailed), but again, this effect is in the wrong direction implying that as threat increases, the coefficient for SDO decreases. None of the SDO * anxiety interactions are statistically significant in the UK data. These results suggest that disease-related threat does not moderate the effect of SDO and political attitudes.

It is also worth noting that in the UK data right-wing political views and conservative ideological orientations are generally associated with increased levels of nationalism and anti-immigrant sentiment (though fiscal conservatives appear less likely to report that immigrants harm culture; social conservatives are less likely to report that immigrants pressure resources), as are those at lower levels of educational attainment. There is a small gender effect across all models suggesting that men are slightly more nationalistic but less likely to hold anti-immigrant views -- again, these estimates are relatively small compared to other coviates. Older individuals appear more likely to associate immigrants with placing additional pressure on material resources and being bad for the cultural life of Britain, while those with higher incomes are less likely to state that immigrants are bad for Britain's economy. Finally, those born outside the UK are perhaps unsurprisingly less likely to hold anti-immigrant attitudes.

Examining the socio-political covariates from the Irish data (Table 3), we see that the statistically significant predictors are necessarily political or ideological orientations. Instead, low educational attainment is consistently associated with negative attitudes toward immigrants. As we saw with the UK data, respondents who were foreign born were more likely to hold ethnocentric views.

To investigate the dynamics of the RWA * COVID-19 anxiety interactions in more detail, we plotted the changes in the conditional coefficient of authoritarianism as a function of COVID-19 anxiety in Figure 1 for the UK and Figure 2 for Ireland using the interplot package in R. Scholars recommend that conditional effects are calculated from the marginal effect at every observed value of the moderator, in this case COVID-19 anxiety, to properly interpret interactions (e.g., see Berry, Golder, & Milton 2012; Brambor, Clark, & Golder 2006). The plots clearly demonstrate that the RWA * COVID-19 interaction is both statistically and substantively interesting: The effect of RWA on nationalism and anti-immigrant sentiment increases substantially in conjunction with heightened perceptions of existential threat from the COVID-19 pandemic in both countries. Comparing the figures from both countries, we see that the coefficient for RWA is statistically significant throughout the entire range of values of COVID-19 anxiety moderator in the UK. However, in Ireland, the estimate for RWA only reaches statistical significance at relatively high levels of disease-related threat (i.e., the upper quartile of the anxiety distribution).

Nationalism **Economy** 0.6 0.6 0.5 -0.5 **Estimated RWA Coefficient** 0.4 -0.4 0.3 -0.3 -0.2 0.2 0.1 0.0 0.0 -0.1 **-**0.50 1.00 0.25 0.75 0.00 0.25 0.50 1.00 0.00 0.75 COVID-19 Anxiety COVID-19 Anxiety CI(Max - Min): [0.119, 0.56] CI(Max - Min): [0.034, 0.507] Resources Culture 0.6 -0.6 -**Estimated RWA Coefficient** 0.5 0.3 -0.3 -0.2 0.2 0.1 0.0 1.00 1.00 0.75 0.25 0.50 0.00 0.25 0.50 0.00 0.75

Figure 1. Conditional Effect of RWA on Nationalism and Anti-Immigrant Sentiment at Different Levels of COVID-19 Anxiety in the United Kingdom

Notes: Each plot shows the estimated conditional effect of right-wing authoritarianism on the outcome listed in bold at different levels of disease-related anxiety based upon the adjusted estimates from Table 2. The distribution of the moderator (COVID-19 Anxiety) is displayed above the x-axis in the upper left panel; 95% confidence intervals are shaded in grey. The caption in the bottom right corner of each plot contains the confidence intervals of the difference between the conditioned effects of anxiety at the minimum and maximum values authoritarianism. The plots suggest that the estimated effect of RWA increases as levels of anxiety rise.

CI(Max - Min): [-0.038, 0.449]

COVID-19 Anxiety

CI(Max - Min): [-0.077, 0.419]

COVID-19 Anxiety

Nationalism Economy 0.4 -0.4 -**Estimated RWA Coefficient** 0.3 -0.3 -0.2 -0.2 -0.1 -0.1 -0.0 — 0.0 -0.1 --0.1 --02--0 2 **-**-0.3 **-**-0.3 **-**-0.4 --0.4 -0.5 --0.5 -1.00 0.50 0.00 0.25 0.50 0.75 0.00 0.25 0.75 1.00 COVID-19 Anxiety COVID-19 Anxiety CI(Max - Min): [0.071, 0.687] CI(Max - Min): [0.008, 0.732] Resources Culture Estimated Coefficient of RWA 0.4 -04. 0.3 -0.3 -0.2 -0.2 -0.1 -0.0 0.0 --0.1 --0.1 **-**-0.2 **-**-0.2 -0.3 --0.3 --0.4 --0.4 **-**-0.5 **-**-0.5 **-**0.00 0.25 0.50 0.75 1.00 0 00 0.25 0.50 0.75 1.00 COVID-19 Anxiety COVID-19 Anxiety CI(Max - Min): [-0.17, 0.534] CI(Max - Min): [0.199, 0.934]

Figure 2. Conditional Effect of RWA on Nationalism and Anti-Immigrant Sentiment at Different Levels of COVID-19 Anxiety in the Republic of Ireland

Notes: Each plot shows the estimated conditional effect of right-wing authoritarianism on the outcome listed in bold at different levels of anxiety based upon the adjusted estimates from Table 2. The distribution of the moderator (COVID-19 Anxiety) is displayed above the x-axis in the upper left panel; 95% confidence intervals are shaded in grey. The caption in the bottom right corner of each plot contains the confidence intervals of the difference between the conditioned effects of anxiety at the minimum and maximum values authoritarianism. The plots suggest that the estimated effect of RWA increases as levels of anxiety rise.

Discussion

Our study contributes to the literature on right-wing authoritarianism and social dominance orientation by demonstrating that existential disease-related threats appear to moderate authoritarian predispositions, thus influencing their expression on ethnocentric political attitudes. Using data from two large, nationally representative samples of adults in the UK and Republic of Ireland collected during the initial phases of strict lockdown measures in those countries, we find that while authoritarianism is associated with a non-zero effect on nationalism and anti-immigrant sentiment at low levels of anxiety (and in fact, negative association in Ireland), the

overall impact of RWA is rather small. Only when perceived threat – operationalised here as a measure of anxiety about the COVID-19 pandemic – is high does RWA exert a substantial effect on those nationalism and anti-immigration attitudes. This is interesting because most extant literature examines how threats from specific outgroups activate authoritarian predispositions and generate backlashes against those same outgroups. Here, the threat does not arise from an inherently threatening outgroup but a virus; yet, authoritarians still respond by becoming more nationalistic and more anti-immigrant.

There are, of course, some limitations of our study that merit discussion. First, the crosssectional nature of our data means that it is impossible to disentangle the causal relationships among RWA, threat, nationalism, and anti-immigrant sentiment. For instance, when COVID-19 anxiety is regressed on RWA, SDO, and the other socio-demographic control variables used in our prior analyses, we find that RWA is a statistically significant and positively signed predictor of perceived anxiety in both the UK (b = 0.19, se = 0.04, p = 0.00) and Irish (b = 0.24, se = 0.04) 0.05, p = 0.00) samples, as is age and income (UK-only). Interestingly, SDO is negatively associated with COVID-19 anxiety (UK: b = -0.17, se = 0.04, p = 0.00; ROI: b = -0.06, se = -0.060.04, p = 0.10), along with being male and non-native born (ROI-only). Thus, the relationships we have modeled are likely more nuanced than the cross-sectional data can handle. Second, while our sample is large and nationally representative, it is not a probability-based sample, which means that there may be individuals with differential probabilities of selection into the study with unknown (and unknowable) effects on our key measures. Third, we used a single proxy of anxiety related to the COVID-19 pandemic as a measure of existential threat; in hindsight, it would have been better to have multiple, direct measures of our threat moderator, given its hypothesized role in moderating RWA. Finally, we only assessed attitudes toward nationalism and immigration, but one could imagine a number of other interesting outcomes that may be predicted by the intersection of existential threat and authoritarianism.

Future research should build upon our work by investigating the nature and consequences of existential threat on RWA and SDO, as well as its interactive effect on political attitudes and behavior toward in- and out-groups. One way to gain traction on this problem would be to design longitudinal studies to examine how threats at one time period affect subsequent political attitudes. It would be particularly interesting to know whether our findings are unique to the UK and Ireland, or if they would replicate in other non-Western societies (we suspect that they would but acknowledge it is an empirical question).

Ultimately, we believe our findings are important because they portend to the likely consequences of public opinion in countries across the world. That is, grave threats to humanity from the COVID-19 pandemic appear to activate authoritarians in society, which in turn, shifts opinion toward nationalistic and anti-immigrant sentiments. One can only imagine how this might affect governance in democracies in Europe, North America, and elsewhere in the world as the global pandemic continues.

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Supplemental Appendix

Table A1. Question Wording and Summary Statistics for Key Measures

Question Wording (Row 1: UK; Row 2: Ireland)	Mean/SD
Nationalism (5-point agreement scale)	
The world would be a better place if people from other countries were more like the British/Irish.	3.09/1.08 3.32/1.01
Generally speaking, Britain/Ireland is a better country than most other countries.	3.31/1.06 3.64/.95
Attitudes toward Immigrants (first 2 items: 10-point scales; last item: 5-point sc	ale)
On a scale from 1 to 10, where 1 is extremely bad and 10 is extremely good, would you say it is generally bad or good for Britain's/Ireland's economy that migrants come to Britain/Ireland from other countries?	6.29/2.30 6.29/2.35
And on a scale from 1 to 10, would you say that Britain's/Ireland's cultural life is generally undermined or enriched by migrants coming to live here from other countries?	6.07/2.51 6.31/2.45
Some migrants make use of Britain's/Ireland's schools, increasing the demand on them. However many migrants also pay taxes which support schools and some also work in schools. Do you think that, on balance, migration to Britain/Ireland reduces or increases pressure on the schools across the whole of Britain/Ireland?	3.41/.99 3.35/1.01
Right-Wing Authoritarianism (5-point agreement scale)	
It's great that many young people today are prepared to defy authority. (R)	2.54/1.16 2.17/1.17
What our country needs most is discipline, with everyone following our leaders in unity.	3.40/1.08 3.21/1.09
Strict rules about abortion, pornography, and marriage are necessary for a healthy society.	2.84/1.20 2.83/1.30
There is nothing wrong with premarital sexual intercourse. (R)	4.18/1.01 4.06/1.13
Our society does NOT need tougher government and stricter laws. (R)	3.05/1.08 3.17/1.12
The facts on crime and the recent public disorders show we have to crack down harder on troublemakers, if we are going to preserve law and order.	3.70/1.03 3.89/.99
Social Dominance Orientation (5-point agree scale)	

An ideal society requires some groups to be on top and others to be on the bottom.	2.75/1.05 2.61/1.05
Groups at the bottom are just as deserving as groups at the top. (R)	3.99/.92 3.93/.98
We should do what we can to equalize conditions for different groups. (R)	3.81/.94 3.99/.89
It is unjust to try to make groups equal.	2.71/1.09 2.61/1.06
We should work to give all groups an equal chance to succeed. (R)	4.13/.86 4.22/.84
Some groups of people are simply inferior to other groups.	2.47/1.19 2.41/1.24
Group equality should not be our primary goal.	3.06/1.07 2.91/1.10
No one group should dominate in society. (R)	3.89/.96 4.05/1.02
COVID-19 Anxiety	
How anxious are you about the coronavirus COVID-19 pandemic? Move the slider below to indicate how anxious you feel where $0 = \text{not}$ at all anxious and $100 = \text{extremely}$ anxious.	67.72/24.60 71.59/24.42

Notes: Row 1: N = 2,025 (UK). Row 2: N = 1,041 (Ireland). R = reverse-worded; M = Mean; SD = Standard Deviation.

Table A2. Descriptive Statistics for All Variables Used in the Regression Analyses

Table A2. Descriptive Statistics for All Va			(cgressio	II Allary SCS	
Variable (Row 1: UK; Row 2: Ireland)	Mean	SD	Min	Median	Max
Nationalism	.55 .62	.24 .21	0 0	.50 .63	1 1
Anti-Immigrant: Economy	.41 .41	.26 .26	0	.33 .33	1 1
Immigrants Pressure Resources	.60 .59	.25 .25	0 0	.50 .50	1 1
Anti-Immigrant: Culture	.44 .41	.28 .27	0 0	.44 .33	1 1
RWA	.51 .52	.17 .17	0 0	.50 .52	1 1
SDO	.36 .41	.18 .21	0 0	.39 .44	1 1
Covid-19 Anxiety	.68 .72	.25 .24	0 0	.71 .77	1 1
Left-Right Politics	.48 .46	.21 .21	0 0	.44 .44	1 1
Fiscal Conservatism	.49 .47	.22 .22	0 0	.44 .44	1 1
Social Conservatism	.36 .35	.28 .31	0 0	.44 .33	1 1
Male	.48 .48	.50 .50	0 0	0	1 1
Age (in Years)	.42 .39	.25 .23	0 0	.42 .37	1 1
Low Education	.13 .30	.34 .46	0 0	0	1 1
Moderate Education	.43	.50	0	0	1
HH Income	.50 .25	.36 .24	0 0	.50 .22	1 1
Not Born in UK/Ireland	.09	.29 .46	0 0	0	1 1

Notes: Row 1: N = 2,025 (UK). Row 2: N = 1,041 (Ireland).

Table A3. Full Regression Results for the UK

	Nation	nalism	Econ	omy	Reso	ources	Culture	
	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted
	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates	Estimates
(Intercept)	.34**	.25**	.20**	.23**	.48**	.38**	.07	.07
	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)	(.05)
	[.25, .43]	[.16, .34]	[.11, .30]	[.14, .33]	[.39, .58]	[.28, .48]	[03, .17]	[03, .17]
	p=.00	p=.00	p=.00	p=.00	p=.00	p=.00	p=.16	p=.17
RWA	.19*	.08	.27**	.20*	.28**	.20*	.46**	.37**
	(.09)	(.08)	(.09)	(.09)	(.09)	(.09)	(.10)	(.09)
	[.01, .36]	[09, .24]	[.09 .45]	[.02, .37]	[.09, .46]	[.02, .38]	[.27, .65]	[.18, .55]
	p=.03	p=.38	p=.00	p=.03	p=.00	p=.03	p=.00	p=.00
SDO	.28**	.18*	.28**	.27**	05	03	.49**	.47**
	(.09)	(.08)	(.09)	(.09)	(.09)	(.09)	(.10)	(.09)
	[.11, .45]	[.01, .34]	[.11, .46]	[.10, .44]	[23, .13]	[20, .15]	[.31, .68]	[.28, .65]
	p=.00	p=.04	p=.00	p=.00	p=.62	p=.78	p=.00	p=.00
COVID-19 Anxiety	16* (.07) [28,03] p=.02	14* (.06) [26,01] p=.03	19** (.07) [33,06] p=.00	17** (.07) [30,04] p=.01	12† (.07) [26, .02] p=.08	10 (.07) [23, .04] p=.15	08 (.07) [22, .06] p=.25	06 (.07) [19, .08] p=.41
RWA * Anxiety	.34**	.34**	.33**	.27*	.24†	.21†	.23†	.17
	(.12)	(.12)	(.12)	(.12)	(.13)	(.12)	(.13)	(.13)
	[.11, .57]	[.11, .56]	[.08, .57]	[.03, .51]	[01, .49]	[04, .45]	[03, .48]	[08, .42]
	p=.00	p=.00	p=.01	p=.03	p=.06	p=.09	p=.09	p=.18

SDO * Anxiety	.02 (.12) [21, .25] p=.89	02 (.11) [25, .20] p=.84	06 (.12) [30, .19] p=.65	04 (.12) [28, .19] p=.72	04 (.13) [29, .21] p=.76	09 (.12) [33, .15] p=.46	28* (.13) [54,03] p=.03	27* (.13) [52,03] p=.03
Left-Right Politics		.11** (.03) [.05, .18] p=.00		.06† (.03) [01, .13] p=.09		.08* (.04) [.01, .15] p=.03		.12** (.04) [0.05, .19] p=.00
Fiscal Conservatism		.19** (.03) [.13, .25] p=.00		03 (.03) [09, .03] p=.35		.08** (.03) [.02, .15] p=.01		09** (.03) [16,02] p=.01
Social Conservatism		.00 (.02) [04, .05] p=.91		.06** (.02) [.01, .11] p=.02		05* (.02) [10,00] p=.03		.07** (.03) [.02, .12] p=.00
Age		.02 (.02) [02, .06] p=.43		.04† (.02) [00, .09] p=.06		.20** (.02) [.16, .25] p=.00		.07** (.02) [.02, .11] p=.00
Male (Base: Female)		.03** (.01) [.01, .05] p=.00		04** (.01) [06,02] p=.00		02* (.01) [04, .00] p=.03		02* (.01) [05, .00] p=.04

Low Education (Base: High)		.02 (.02) [01, .05] p= .15		.06** (.02) [.03, .10] p=.00		.03* (.02) [.00, .07] p=.04		.08** (.02) [.05, .12] p=.00
Mod Education (Base: High)		.03* (.01) [.00, .05] p=.02		.06** (.01) [.03, .08] p=.00		.01 (.01) [01, .04] p=.22		.07 (.01) [.05, .10] p=.00
HH Income		01 (.01) [03, .02] p=.68		09** (.02) [12,06] p=.00		.01 (.02) [02, .04] p=.35		06 (.02) [09,03] p=.00
Foreign Born (Base: UK- Born)		03† (.02) [06, .00] p=.09		10** (.02) [13,06] p=.00		08** (.02) [12,05] p=.00		10** (0.02) [14,07] p=.00
F	85.08**	43.14**	83.93**	43.65**	36.75**	26.41**	116.68**	56.81**
Adjusted R^2	.17	.23	.17	.23	.08	.15	.22	0.18

Notes: N = 2,025. Cell entries are unstandardized estimates from an ordinary least squares regression, with standard errors in parentheses, 95% confidence intervals in brackets, and rounded *p-values*. Bolded entries show the estimates from the hypothesized RWA * anxiety interaction. *p-values*. ** p < .01; * p < .05; † p < .10.

Table A4. Full Regression Results for the Republic of Ireland

	Nationalism		Economy		Resources		Culture	
	Unadjusted Estimates	Adjusted Estimates	Unadjusted Estimates	Adjusted Estimates	Unadjusted Estimates	Adjusted Estimates	Unadjusted Estimates	Adjusted Estimates
(Intercept)	.61** (.06) [.49, .73] p=.00	.60** (.06) [.48, .73] p=.00	.31** (.07) [.16, .45] p=.00	.37** (.08) [.22, .52] p=.00	.64** (.07) [.50, .78] p=.00	.57** (.07) [.43, .72] p=.00	.29** (.07) [.14, .43] p=.00	.31** (.08) [.16, .46] p=.00
RWA	24* (.12) [48,00] p=.05	24 (.12) [48,00] p=.05		12 (.14) [40, .16] p=.41	05 (.14) [33, .23] p=.71	06 (.14) [34, .21] p=.66	26† (.15) [55, .03] p=.08	23 (.14) [52, .05] p=.11
SDO	.09 (.10) [11, .29] p=.37	.07 (.10) [12, .27] p=.48	.33** (.12) [.10, .57] p=.01	.34** (.12) [.11, .57] p=.00	17 (.12) [40, .06] p=.16	11 (.12) [34, .12] p=.35	.53** (.12) [.29, .77] p=.00	.51** (.12) [.28, .74] p=.00
COVID-19 Anxiety	07 (.09) [24, .10] p=.43	09 (.09) [26, .08] p=.30	13 (.10) [33, .08] p=.22		12 (.10) [32, .08] p=.24	13 (.10) [32, .07] p=.19	19† (.10) [39, .01] p=.07	18† (.10) [38, .02] p=.08
RWA * Anxiety	.38* (.16) [.07, .69] p=.02	.38* (.16) [.07, .69] p=.02	.43* (.19) [.06, .80] p=.02	.37* (.19) [.00, .73] p=.05	.23 (.19) [14, .60] p=.22	.18 (.18) [18, .54] p=.33	.66** (.19) [.28, 1.04] p=.00	.56** (.19) [.19, .93] p=.00

SDO * Anxiety	01 (.13) [27, .25] p=.92	.00 (.13) [25, .26] p=.98	14 (.16) [45, .17] p=.37	09 (.15) [39, .21] p=.56	.15 (.16) [16, .45] p=.35	.14 (.15) [16, .43] p=.37	26 (.16) [57, .06] p=.11	20 (.16) [50, .11] p=.21
Left-Right Politics		.09** (.04) [.02, .17] p=.01		10* (.04) [18,01] p=.02		04 (.04) [13, .04] p=.31		07 (.04) [15, .02] p=.13
Fiscal Conservatism		03 (.04) [10, .04] p=.47		02 (.04) [10, .06] p=.62		.06 (.04) [03, .14] p=.18		07 (.04) [15, .02] p=.11
Social Conservatism		01 (.03) [06, .04] p=.56		.06† (.03) [00, .11] p=.06		03 (.03) [09, .03] p=.35		.08* (.03) [.02, .14] p=.01
Age		.04 (.03) [02, .10] p=.16		.06† (.04) [01, .13] p=.10		.24** (.04) [.18, .31] p=.00		.06† (.04) [01, .14] p=.07
Male (Base: Female)		.01 (.01) [01, .04] p=.28		05** (.02) [08,02] p=.00		03* (.02) [06,00] p=.04		02 (.02) [05, .01] p=.24

Low Education (Base: High)		00 (.01) [03, .03] p=.93		.07** (.02) [.04, .11] p=.00		.04* (.02) [.00, .07] p=.03		.09** (.02) [.06, .13] p=.00
HH Income		.01 (.03) [05, .07] p=.71		06† (.03) [13, .01] p=.07		.02 (.03) [04, .09] p=.48		03 (.03) [10, .04] p=.37
Foreign Born (Base: ROI- Born)		07** (.01) [10,04] p=.00		10** (.02) [13,06] p=.00		06** (.02) [09,03] p=.00		07** (.02) [11,04] p=.00
F	6.79**	5.76**	13.71**	11.96**	3.03*	6.97**	25.85**	16.15**
Adjusted R^2	.03	.06	.06	.12	.01	.07	.11	.16

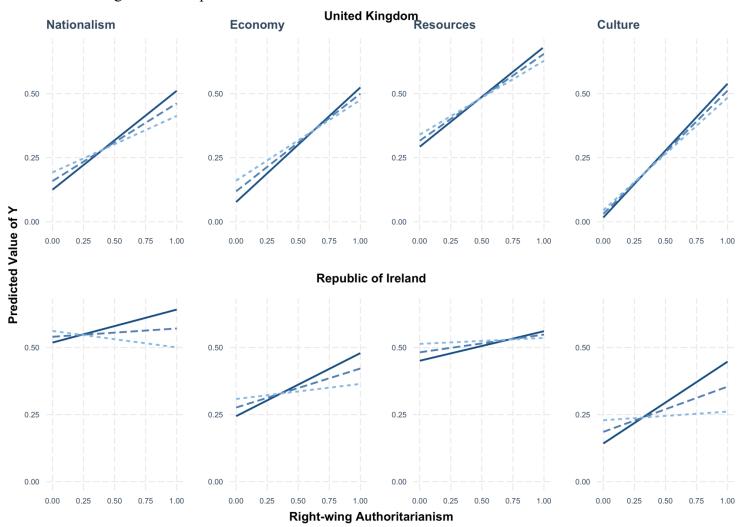
Notes: N = 1,041. Cell entries are unstandardized estimates from an ordinary least squares regression, with standard errors in parentheses, 95% confidence intervals in brackets, and rounded *p-values*. Bolded entries show the estimates from the hypothesized RWA * anxiety interaction. *p-values*. ** p < .01; * p < .05; † p < .10.

Table A5. Test of Statistical Significance for RWA * COVID-19 Anxiety Interaction Using Adjusted P-Values for the False Discovery Rate

	United Kingdom				Republic of Ireland			
	Nationalism	Economy	Resources	Culture	Nationalism	Economy	Resources	Culture
RWA * Anxiety	.34 (.12)	.27 (.12)	.21 (.12)	.17 (.13)	.38 (.16)	.37 (.19)	.18 (.18)	.56 (.19)
Unadjusted	p=.00	p=.03	p=.09	p=.18	p=.02	p=.05	p=.33	p=.00
BH adjusted	p=.01	p=.04	p=.14	p=.20	p=.06	p=.10	p=.43	p=.01

Notes: Top cell entries are unstandardized estimates from the full ordinary least squares regression (i.e., model with control variables and lower order terms), standard errors in parentheses. Unadjusted *p-values* match the values presented for the full models in Tables 2 and 3. Adjusted *p*-values were calculated using the 'multcomp' package in R. BH = Benjamini and Hochberg (1995) method for adjusting the false discovery rate (i.e., the expected proportion of false discoveries amongst the rejected hypotheses).

Figure A1. Predicted Outcome by Levels of Right-Wing Authoritarianism and COVID-19 Anxiety in the United Kingdom and Republic of Ireland



Notes: Predicted values calculated from the adjusted estimates presented in Tables A3 and A4.