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(Article begins on next page)

RUNNING HEAD: Threat and RWA

Actual threat, perceived threat, and authoritarianism: An experimental study

Actual threat, perceived threat, and authoritarianism: An experimental study**Abstract**

Archival, correlational, and experimental studies converge showing strong links between societal threat and authoritarianism. However, inconsistent with the social cognitive studies showing that our perception of the reality is systematically biased, the literature on the threat-authoritarianism relations has largely ignored the connection between the actual societal threat and its perception. In this study, we analyzed the relation between objective societal threat and authoritarians' perception of it, hypothesizing that authoritarians would tend to overestimate societal threat and that such overestimation would increase the endorsement of authoritarian attitudes and the preference for authoritarian political systems. Using an experimental approach, we studied the relations between right-wing authoritarianism (RWA), actual societal threat (manipulated as low vs. moderate), and perceived societal threat working with an Italian community sample ($N = 209$, $M_{\text{age}} = 29.70$, $SD = 9.53$, 64.1% women). Actual threat and RWA equally predicted participants' threat perception, while their interaction did not. In turn, threat perception further increased RWA and support to authoritarian political system. We discussed the results in terms of a vicious circle whereby authoritarians overestimate societal threat and such overestimation reinforces authoritarian attitudes.

Keywords: Authoritarianism; Threat; Perceived threat; Authoritarian political systems

Recent approaches suggest that authoritarianism should be considered an ideological attitude expressing motivational needs for order, social control, and security (Duckitt, 2001). In line with this idea, authoritarians have a strong identification with the extant social order and a high sensibility to what threatens it (Duckitt & Sibley, 2009). Empirical research showed that authoritarianism changes as a function of individual and contextual characteristics, reinforcing the idea that it is an ideological variable liable to change more than a stable personality trait (e.g., Sibley & Duckitt, 2010). In particular, many studies reported that authoritarianism is intimately related to societal threats. Archival research showed that societal indicator measures of authoritarianism tend to be higher during times of economic crisis (e.g., Doty, Peterson, & Winter, 1991; Sales, 1973; Sales & Friend, 1973). Correlational studies looked at the relationship between contextual factors, such as crime rates, or self-reported threat perception, and authoritarian attitudes, and concluded that the endorsement of authoritarian attitudes is associated to societal threats (e.g., Dallago & Roccato, 2010; Roccato, Vieno, & Russo, 2014). Finally, experimental studies showed that levels of authoritarianism and/or support to authoritarian political systems increase when people are exposed to a threatening scenario, in which the society is described as going through a political and economic crisis with high criminality, unemployment, and terrorism (e.g., Altemeyer, 1988; Duckitt & Fisher, 2003; Stenner, 2005).

One interpretation for this relationship refers to the idea that people endorse authoritarian attitudes and support to authoritarian political systems mainly to restore the loss of perceived control caused by the exposure to societal threat (Mirisola, Roccato, Russo, Spagna, & Vieno, 2014). Through a compensatory control mechanism (Kay, Gaucher, Napier, Callan, & Laurin, 2008; Kay, Whitson, Gaucher, & Galinsky, 2009), people can try to compensate the lack of perceived control by supporting sources of external control, such as established authorities and authoritarian political systems (Kay et al., 2008). Authoritarianism is one of the main social psychological bases of such support (Altemeyer & Hunsberger, 1993). Consistent with this, Kakkar and Sivanathan (2017) showed that economic uncertainty results in a greater preference for dominant and

authoritarian leaders, mainly because of people's lack of perceived control. Overall, thus, archival, correlational, and experimental studies converge supporting the idea that threats undermining the social order are fertile ground for the development of authoritarian attitudes and preference for strong and dominant authorities.

In this field of study, whether using indicators of threat (real and hypothetical) or self-reported threat perceptions, scholars **did not explicitly address the relationship between the threat itself and authoritarians' perception of it.** When using contextual data or hypothetical scenarios (e.g., Doty et al., 1991, Stenner, 2005), **we do not know if** authoritarians and non-authoritarians perceive **them** in the same way; similarly, when using **perceived threats** (e.g., Dunwoody & McFarland, 2018; Huddy & Feldman, 2011), **we do not know if such reports are biased or not.** This is not a trivial issue, as people constantly incur perceptual and cognitive biases. For example, the literature on the heuristic strategies used to provide estimates or make predictions (Tversky & Kahneman, 1974) shows that cognitive processes might produce inaccurate outcomes. In particular, the availability heuristic can produce over- and under-estimation of threats (Stein, 1988). The availability heuristic (Tversky & Kahneman, 1973) describes the tendency to estimate probabilities based on the availability in memory of an information and on its emotional load, more than on the real objective probability that an event would occur. **Authoritarians might be especially susceptible to this bias when it comes to threat perception, as some studies showed that they are more likely to read threatening news stories (Lavine, Lodge, & Freitas, 2005) and perceive different kinds of threat differently than low authoritarians (Duckitt, 2001).** Based on **these studies and on the literature about the availability** heuristic (Tversky & Kahneman, 1973), we suggest that authoritarians should overestimate societal threats because they perceive them as anxiety-inducing (Roccatò & Russo, 2017). Such overestimation might explain, at least partially, the association between societal threat and authoritarianism.

In the current experimental study, we focused on the relation between objective societal threat and authoritarians' perception of it. We suggest that authoritarians tend to overestimate

societal threat and that such overestimation increases the endorsement of authoritarian attitudes and the preference for authoritarian political systems. In other words, we expect a vicious circle whereby threat estimation exacerbate already existing authoritarian attitudes. To test this idea, we investigated if such overestimation bias occur independently from the level of initial objective threat (low vs. moderate).

Method

Design and Participants

The study was conducted as a computerized experiment. The participants ($N = 209$, $M_{\text{age}} = 29.70$, $SD = 9.53$, 64.1% women) were contacted by two graduating students at *** University among their social networks. Participants were provided with instructions and the link to the study, which was programmed with the Dynamic Process Tracing Environment (DPTE, Redlawsk & Lau, 2009) and run entirely on the computer. First, we asked participants a set of questions to assess their authoritarian attitudes and their previous experiences with crime. Second, participants were told to imagine that they had moved to an unnamed European country and read a general description about it, containing information such as the total population (67 million inhabitants), public administration, and tourism. Crucial for our study was the information related to crime rates. Participants were randomly assigned to read either a low threat scenario ($n = 109$), in which the number of theft victims reporting the crime to the police in the last year was 3,350,000 (corresponding to 5% of the total population), or a moderate threat scenario ($n = 100$), in which the number of thefts was 20 million (rate of about 30%). We have focused on theft and not on more severe crimes because actual and perceived micro-criminality showed to foster psychological reactions to crime much more than other severe crimes, such as rapes and murders (e.g., Hale, 1996). Third, we asked participants to report the probability, as a percentage, for them to be victim of a theft during the first year spent in the country. Finally, we assessed again their authoritarian attitudes, their support to authoritarian political system, and their socio-demographic characteristics.

Measures

We measured participants' authoritarianism using Roccato and Russo's (2015) short, parallel, balanced versions of the RWA scale. Each scale included 10 items with response options ranging from 1 (totally disagree) to 5 (totally agree). The first one was administered at the beginning of the study (RWA_{t1} , $\alpha = 0.76$), the second one (RWA_{t2} , $\alpha = 0.72$) after the presentation of the scenarios and the question about the probability of being victim of a theft during the first year spent in the new country. Specifically, when introducing the second scale, participants were asked to answer how they would do if living in the country mentioned above. We computed two mean indexes of RWA, with higher scores indicating stronger authoritarian attitudes. After the exposure to the scenario, we also asked the participants to indicate, on a scale from 1 (awful system) to 4 (excellent system), their opinion about two authoritarian political systems, namely 'a strong leader who does not have to bother with elections or parliament' and 'a military government' (Moreno & Méndez, 2002). Based on $r = .42$, $p < .001$, we computed a mean index of support to authoritarian political systems. Table 1 reports, in the upper portion, descriptive statistics and correlations among the study variables, and, in the lower portion, descriptive statistics for all variables in the low vs. moderate threat conditions. A list of all items administered is reported in the Appendix.

Results

We tested a moderated-mediated regression model (using Mplus7, Muthén & Muthén, 1998-2012, 5000 bootstrap resamples) aimed at predicting authoritarianism and support to authoritarian political systems. We estimated the effect of authoritarianism (RWA_{t1} , mean centered) on risk perception, defined as the probability reported by the participants of being victim of a theft, and the effect of this perception on authoritarianism (RWA_{t2}) and support to authoritarian political systems. In addition, we estimated the effect of the initial objective threat—in terms of exposure to the low (-1) vs. moderate (1) crime rates scenario—and tested whether the effect of RWA_{t1} on risk perception was moderated by it.

The general fit of the model was good, $\chi^2(2) = 1.03$, $p = .60$ (CFI = 1.00, TLI = 1.02, RMSEA = .00). Figure 1 reports the results of this analysis and shows that both RWA_{t1} and the

objective threat significantly predicted risk perception ($R^2 = .13$, $SE = .04$, $p < .01$), while their interaction did not. Even if it was true that risk perception was anchored to the objective threat level, it was also true that authoritarians tended to overestimate such threat. Interestingly, risk perception—but not the objective threat—predicted both RWA_{t2} ($R^2 = .53$, $SE = .05$, $p < .001$) and support for authoritarian political systems ($R^2 = .32$, $SE = .06$, $p < .001$), indicating that individual perceptions matter more than objective data. In addition, RWA_{t1} was related directly and indirectly, via the mediation of theft risk perception, to RWA_{t2} (standardized indirect effect = .06, $p < .01$, 95% CI [0.03, 0.10]) and to support for authoritarian political systems (standardized indirect effect = .05, $p < .05$, 95% CI [0.02, 0.09]). Objective threat, though, was only indirectly related to RWA_{t2} (standardized indirect effect = .06, $p < .01$, 95% CI [0.03, 0.10]), and support for authoritarian political systems (standardized indirect effect = .05, $p < .05$, 95% CI [0.02, 0.09]). Parallel analyses, performed adding gender, age, and previous victimization experiences as control variables in the model above, led to analogous results (cf. Appendix).

Discussion

Since the pioneering studies by Adorno and colleagues (Adorno, Frenkel-Brunswik, Levinson, & Sanford, 1950), the conceptualization of authoritarianism has changed and developed. Independently from whether it was conceived as a stable personality variable (e.g., Altemeyer, 1996) or as an ideological attitude (e.g., Duckitt, 2001), authoritarianism has consistently been linked to societal threat. In this study, we suggested that societal threat exacerbates already existing authoritarian attitudes. More specifically, we found that individual perceptions of the probability of being victims of theft mediated the effect of initial authoritarian level on subsequent authoritarian attitudes and support for authoritarian political systems. In other words, the findings point to a vicious circle whereby authoritarians tend to overestimate the societal threat they are exposed to, and this leads to a polarization of their initial attitudes and a greater endorsement of authoritarian political systems.

We also found that the objective threat level does not have the same weight in this process. It is not much surprising that what people perceive the world to be (rather than the world itself) is what matters most in shaping individual attitudes and cognitions; but it is interesting to note that the effect of the objective threat equals that of authoritarianism on risk perception. This is important because it indicates that threat perception is biased in a way that has implications for the research on societal threat and authoritarianism. At present, the main approach in the literature is to look at right-wing attitudes as reactions to societal threat (e.g., Onraet, Van Hiel, Dhont, & Pattyn, 2013). However, some studies suggested that authoritarians tend to perceive the world as a dangerous place (Altemeyer, 1988) and that authoritarians tend to be more sensitive to threat, both at the explicit (Lavine, Lodge, Polichak, & Taber, 2002) and at the implicit level (Cohrs & Ibler, 2009). Our findings add to the extant literature in two ways. First, authoritarians are not more responsive to threatening cues, rather they seem to be on a perceptual heightened alert as indicated by their general tendency to overestimate threats, independently from the objective threat. Second, we found that right-wing attitudes are both antecedents and consequences of threat perception, indicating that researchers should be cautious with causal interpretations of the associations between RWA and perceived threat.

Among the limitations of the study, we need to acknowledge that we focused on a single index of RWA, encompassing authoritarian submission, aggression, and conventionalism. Even though it is widely used in empirical research, Altemeyer's scale (1988) is not exempt of criticisms, most of them addressing the fact that it assesses unidimensionally a multidimensional construct (cf., Duckitt & Bizumic, 2013; Funke, 2005). According to the Authoritarianism-Conservatism-Traditionalism (ATC) model (Duckitt, Bizumic, Krauss, & Heled, 2010), RWA is a set of three different social attitudes, each expressing different motivational goals and stemming from different social threats. While authoritarianism is related to direct and physical threats to safety, conservatism is linked to threats to social order and cohesion, and traditionalism to threats to social values and morality (Duckitt et al., 2010). A replication of this study using the ATC scale and people's

estimates about different type of threats seems especially promising to improve our understanding of the relationship between authoritarianism and threats. Moreover, our approach did not inform us about potential long-term effects. Societal threats are psychologically more relevant, persistent and salient in everyday life than in experimental settings. Future research could benefit from a longitudinal approach aimed at comparing the strength, significance, and duration of the reciprocal relationship between authoritarianism and threat.

Notwithstanding, our study had some important strengths. First, we captured empirically the complex links between actual threat, perceived threat, and authoritarianism. To do so, we used an experimental approach that allowed us to deal with the bidirectional relationships between threat (actual and perceived) and authoritarianism, an issue that has been called for (Onraet et al., 2013). In addition, our analysis was not limited to authoritarian reactions to threat; we have also considered the support to authoritarian political systems and showed that—consistent with the first theorizations on this topic (e.g., Fromm, 1941)—perceived threat may actually be a relevant predictor of people's preference for anti-democratic political systems.

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Table 1. Correlations among the variables used in the study, descriptive statistics for the whole sample, and for low vs. moderate threat scenarios.

	<i>M</i>	<i>SD</i>	1	2	3	4
1. Risk perception	42.38	23.96	-	.26***	.38***	.30***
2. RWA _{t1}	2.51	0.68		-	.69***	.53***
3. RWA _{t2}	2.70	0.60			-	.58***
4. Support to authoritarian political systems	1.85	0.74				-
Scenario:	Low threat		Moderate threat		<i>t</i> (df)	<i>p</i>
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>		
Risk perception	36.74	24.21	48.52	22.22	-3.65(207)	<.001
RWA _{t1}	2.51	0.64	2.51	0.72	-0.00(207)	.95
RWA _{t2}	2.70	0.58	2.70	0.62	0.06(207)	.95
Support to authoritarian political systems	1.87	0.77	1.83	0.71	0.35(207)	.72

Note. *** $p < .001$.

Figure legend.

Figure 1. Moderated mediated regression model predicting RWA_{t2} and support to authoritarian political systems as a function RWA_{t1} , theft risk perception, controlling for actual threat.

Standardized coefficients are reported, dotted lines are non-significant effects. *** $p < .001$, ** $p < .01$

Figure 1.

