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ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

1 in press, *Personality and Social Psychology Bulletin*

2

3 **From Individual Anxiety to Collective Narcissism?**

4 **Adult Attachment Styles and Different Types of National Commitment**

5

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15

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24 **Data availability statement:**

25 The data that support current findings are openly available in Open Science Framework depository at

26 https://osf.io/t7k4g/?view_only=9da20b2635bd460d928ddef3b988d511

27

28

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29 **Abstract**

30 National narcissism and national identification, two distinct types of national
31 commitment, differ in terms of their psychological concomitants. Therefore, in the current
32 paper, we hypothesized that they would also relate to different adult attachment styles.
33 Namely, we proposed that national narcissism would be positively associated with higher
34 attachment anxiety, while national identification would be associated with lower attachment
35 anxiety and avoidance. These hypotheses were tested in three cross-sectional surveys (Study 1
36 $N = 570$; Study 3 $N = 558$; Study 4 $N = 649$) and one longitudinal survey (Study 2 $N = 808$).
37 In all studies, we found a consistent positive relationship between attachment anxiety and
38 national narcissism, and a negative relationship between attachment avoidance and national
39 identification. Finally, we also demonstrated indirect effects of attachment anxiety (via
40 national narcissism) on maladaptive group-related outcomes: conspiracy beliefs,
41 nonnormative collective action, and willingness to conspire.

42 *Keywords:* attachment anxiety and avoidance, national narcissism, national
43 identification, conspiracy intentions, conspiracy beliefs, nonnormative collective action

44

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

45 **From Individual Anxiety to Collective Narcissism? Adult Attachment Styles and**
46 **Different Types of National Commitment**

47 Investigations of social identity-related processes have often focused on individual
48 factors shaping different types of in-group commitment (e.g., Adorno et al., 1950; Fromm,
49 1973; Turner, 1982). In line with classic psychological theorizing (Tajfel & Turner, 1986),
50 social identity may serve as a compensation for the frustration of different psychological
51 needs. Indeed, previous research showed that people identified with their in-groups, for
52 example, to manage feelings of uncertainty (Mullin & Hogg, 1998), existential threats
53 (Castano et al., 2002) or lack of personal control (Agroskin & Jonas, 2013). In such cases, the
54 group is perceived as offering opportunities for self-fulfillment and, thus, being at the service
55 of the self. Those who are related to their in-group in this way are less motivated to invest
56 individual effort to benefit the group. Instead, they search for a possibility to satisfy their
57 individual needs by becoming part of a strong collective (Cichocka, 2016). This type of in-
58 group commitment is often defensive and destructive, both from the perspective of intra- and
59 intergroup processes (Golec de Zavala et al., 2009). It is related to in-group disloyalty and
60 hostility towards out-group members (Marchlewska et al., 2020). Not all types of in-group
61 commitment, however, are based on mechanisms of psychological compensation. In fact,
62 some individuals are more focused on group- than individual-level benefits and commit to
63 their in-group in a constructive way.

64 In this article, we discuss the concomitants of these two distinct forms of in-group
65 commitment and assume that individual frustration and satisfaction should translate into
66 collective defensiveness and security respectively. We hypothesize that the way people form
67 personal relationships should be related to the way they commit to their in-groups as well.
68 Specifically, we are the first to explore the links between adult attachment and defensive
69 versus secure commitment related to one's national in-group. We focus on adult attachment

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70 styles to better understand the role of basic individual-level factors in adopting different forms
71 of national commitment – phenomena shaping attitudes and behaviors that have a significant
72 impact on entire societies.

73 National Narcissism versus Secure National Identification

74 We operationalize defensive national commitment as national narcissism (Cichocka &
75 Cisłak, 2020) – a grandiose image of one’s national group that is contingent on the external
76 recognition of its worth (Golec de Zavala et al., 2009). In turn, secure (i.e., non-narcissistic)
77 national commitment is defined as an unpretentious investment in the national in-group,
78 independent of the recognition of the group in the eyes of others (Golec de Zavala et al.,
79 2013). This distinction is inspired by research on self-evaluation, which differentiates between
80 individual narcissism (i.e., an inflated self-evaluation associated with the need for external
81 validation and defensiveness in response to ego threats; Horvath & Morf, 2009) and secure
82 self-esteem (i.e., a realistic pride people take in their strengths, which serves as a buffer
83 against psychological threats; Kernis, 2005; Marchlewska & Cichocka, 2017). In our
84 methodological approach, we follow the previously used procedure (e.g., Cichocka et al.,
85 2018; Golec de Zavala et al., 2009; Marchlewska, Cichocka, et al., 2022; Paulhus et al.,
86 2004), where researchers distinguish the unique effects of individual narcissism versus self-
87 esteem by accounting for their shared variance. Similarly, to observe the unique effects of
88 narcissistic versus secure national commitment, researchers co-vary out the variance shared
89 between national narcissism and national identification. Such an approach gives the
90 possibility to observe the distinctive effects of defensive national commitment, that is national
91 narcissism minus its overlap with national identification, and the unique effects of secure
92 national commitment, that is national identification minus its overlap with national narcissism
93 (e.g., Cichocka. & Cisłak, 2020). Controlling for national narcissism while measuring national
94 identification makes it possible to obtain an index of secure national identification (i.e., an

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95 unpretentious investment in the in-group, independent of the recognition of the group in the
96 eyes of others; Golec de Zavala et al., 2013; Marchlewska, Cichocka, et al., 2022), previously
97 linked to psychological security (e.g., higher personal control; Cichocka et al., 2018) and
98 positive inter- and intra- group outcomes (Cichocka, 2016).

99 Previous research has shown that national narcissism is a type of in-group
100 commitment that is built on the foundations of a threatened ego (Cichocka et al., 2018; Golec
101 de Zavala et al., 2020; see also Fromm, 1973). For example, it was shown to increase in
102 response to low levels of personal control (Cichocka et al., 2018; see also Marchlewska et al.,
103 2020) and observed among those individuals who scored low (vs. high) on self-esteem (Golec
104 de Zavala et al., 2020). Still, it is worth stressing that although national narcissism results
105 from the frustration of individual needs, it does not necessarily reinforce feelings of personal
106 control or boost self-esteem (Cichocka et al., 2018). In contrast, due to its defensive nature, it
107 leads to maladaptive psychological outcomes (Marchlewska et al., 2020; for a review see
108 Cichocka & Cisłak, 2020).

109 In fact, individuals scoring high on collective narcissism are focused on defending
110 their group from real or imagined enemies, rather than on investing individual effort to
111 actually benefit the group (Cichocka, 2016; Marchlewska et al., 2020; Marchlewska,
112 Cichocka, et al., 2019, 2022). This is probably due to the exaggerated feelings of insecurity,
113 which underlie this particular in-group commitment (Cichocka, 2016). Prior studies
114 demonstrated that collective narcissism was positively related to perceiving even ambiguous
115 intergroup situations as threatening (Golec de Zavala et al., 2009). This may explain its
116 positive relationships with conspiracy beliefs (i.e., beliefs in secret plots by powerful and
117 malevolent groups; Douglas & Sutton, 2008) and out-group hostility (Marchlewska,
118 Cichocka, et al., 2019; Marchlewska, Górska, et al., 2022). As previously mentioned, national
119 narcissism is not only related to negative perceptions of out-groups, but also to lack of trust

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120 towards other in-group members. Recent research revealed that in some cases, those scoring
121 high on collective narcissism are even ready to act contrary to the interests of their own group
122 members, by, for example, showing stronger willingness to conspire against them (e.g.,
123 Biddlestone et al., 2022; Molenda et al., in press), which may result in negative relations
124 within the group itself (Cichocka & Cislak, 2020; Marchlewska et al., 2020; in press).

125 This, however, is not the case among people who commit to their nation in a secure
126 way. Secure (i.e., non-narcissistic) national commitment stems from satisfied psychological
127 needs (e.g., Marchlewska et al., 2020) and is based on the foundation of a stable and secure
128 self (Cichocka et al., 2018). For example, it was previously linked to high levels of personal
129 control (e.g., Cichocka et al., 2018) and positive emotionality (Golec de Zavala, 2019). Those
130 who score high (vs. low) on secure national commitment do not react negatively towards out-
131 group members (Górska, Stefaniak, et al., 2022). They are also less defensive and do not
132 respond to criticism with retaliatory hostility (Cichocka, 2016). They also engage in
133 constructive intragroup behaviors. For example, in their recent research Marchlewska, Hamer,
134 et al. (2022) found that willingness to vaccinate against COVID-19 was positively related to
135 secure national commitment and negatively to national narcissism.

136 These results suggest that collective narcissism and secure identification often have
137 opposite relationships with many psychological variables. Collective narcissism (but not
138 secure identification) is related to maladaptive traits and states. Given such findings, we
139 expected that these two types of national commitment (i.e., narcissistic vs. secure) would be
140 also related differently to insecure and secure interpersonal attachment.

141 Adult Attachment and Group Processes

142 Attachment in adulthood can be conceptualized as an orthogonal relationship between
143 two dimensions; *attachment anxiety*, which reflects feelings of low self-worth and fear of
144 abandonment and rejection, and *attachment avoidance*, which reflects discomfort with

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145 closeness, excessive self-reliance, and lack of confidence in depending on others
146 (Bartholomew & Horowitz, 1991; for a review of attachment measurement see Mikulincer &
147 Shaver, 2016). Scoring low on both of these dimensions would constitute a secure attachment.
148 Although adult attachment research has primarily been concerned with individual and
149 interpersonal processes, a growing body of research has demonstrated that it is also able to
150 explain people's maladaptive and adaptive group processes.

151 For example, Rom and Mikulincer (2003) demonstrated how attachment anxiety and
152 avoidance affect group-related regulatory strategies. Specifically, attachment-anxious people
153 reported negative self-concepts as group members and demonstrated poor instrumental
154 support (i.e., contributing to a successful completion of tasks) toward group interactions. On
155 the other hand, attachment-avoidant people had negative views of other in-group members
156 and group interactions (but did not find them threatening), sought self-reliance goals, and
157 demonstrated poor instrumental and socioemotional support (i.e., contributing to morale and
158 cohesion) towards groups. Rom and Mikulincer (2003) argued that their findings could be
159 described in terms of *hyperactivating* and *deactivating* regulatory strategies respectively (e.g.,
160 Cassidy & Kobak, 1988). Attachment anxiety is characterized by a heightened sensitivity
161 towards threats, coupled with continual elicitation of attention, support, and care from others,
162 while attachment avoidance is characterized by psychological avoidance of negative affect
163 and denial of attachment needs.

164 The studies described above are theoretically important for understanding how
165 attachment affects group processes but did not explore the different ways in which people
166 may commit to social groups. In this vein, Milanov and colleagues (2013) examined such
167 relationships and found unique associations between attachment and different types of in-
168 group attitudes. Secure attachment was associated with a higher social (e.g., higher similarity
169 to in-group members) and communal (e.g., able to empathize with in-group members)

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170 identification, compared to attachment avoidance only. Alternatively, attachment avoidance
171 was associated with a higher interdependent identification (e.g., instrumental, exchange-
172 orientated), compared to secure attachment only. This study shows that secure attachment is
173 associated with constructive forms of in-group commitment, but does not appear to measure
174 insecure, defensive types of in-group commitment (e.g., collective narcissism). Further, like
175 other studies described in this section, this study did not account for the context of the group
176 (i.e., national) either. Moreover, no research has explored the relationships between
177 attachment and insecure (particularly narcissistic) versus secure national in-group
178 commitment. The current research aims to delineate these relationships.

179 Adult Attachment and Different Types of In-group Commitment

180 Thus far, one study measured maladaptive and adaptive aspects of national
181 commitment (i.e., blind nationalism vs. constructive patriotism, respectively; Rothí et al.,
182 2005) alongside attachment anxiety and avoidance (see Marsh & Brown, 2011). Specifically,
183 nationalism was found to positively correlate with attachment anxiety only. Unfortunately,
184 however, the relationships between patriotism and attachment were not the main focus of their
185 study and were therefore not reported.¹ This study provides initial support for the notion that
186 insecure attachment may be associated with insecure forms of national commitment; however,
187 it falls short on simultaneously taking into account insecure and secure forms of national
188 commitment, which would provide a more nuanced understanding of how attachment
189 differences may affect these types of identification. Notwithstanding the dearth of literature
190 on this approach, there is a lot of indirect evidence that suggests these variables are associated
191 in disparate ways.

192 To begin, we know that collective narcissism is borne out of a weak and threatened
193 ego (Golec de Zavala et al., 2020) and is associated with a heightened sensitivity towards

¹ The patriotism factor of the scale was included to disguise the purpose of the study.

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194 threats (Cichocka, 2016). Similarly, attachment anxiety is characterized by negative models of
195 the self as unworthy, vulnerable, and helpless (Bartholomew & Horowitz, 1991), and is
196 associated with regulatory strategies that intensify feelings of distress (i.e., hyperactivating;
197 Mikulincer & Shaver, 2003); all of which appear to be consistent at the group level (e.g., Rom
198 & Mikulincer, 2003). Further, like collective narcissism (Golec de Zavala & Cichocka, 2012;
199 Marchlewska, Cichocka, et al., 2019), attachment anxiety has also been associated with an
200 increased belief in conspiracy theories, which was argued to stem from the tendency to
201 appraise life's problems in catastrophic terms (Green & Douglas, 2018). Therefore, it seems
202 reasonable to assume that attachment anxiety will be a concomitant of collective narcissism,
203 due to their similarities with a threatened sense of self and the propensity to exaggerate
204 threats.

205 Secure national commitment, on the other hand, is likely to be associated with both
206 low attachment avoidance and anxiety — that is, secure attachment. For example, secure
207 national identification is associated with satisfied psychological needs and a secure sense of
208 self (Cichocka et al., 2018; Marchlewska et al., 2020), high personal control (Cichocka et al.,
209 2018), and positive emotionality (Golec de Zavala, 2019); each of which are indicative of low
210 attachment anxiety (i.e., a positive model of the self). Further, secure national commitment is
211 also associated with positive attitudes towards in-group and out-group members alike
212 (Cichocka, 2016), which is indicative of low attachment avoidance (i.e., a positive model of
213 others). In fact, secure attachment has been associated with a number of adaptive group-
214 related processes, which further indicate its positive relationship with secure national
215 commitment. As already mentioned, secure attachment is associated with constructive types
216 of group identification (Milanov et al., 2013). Interestingly, other research has shown that
217 both majority and minority (i.e., immigrant) group members with secure attachment have
218 positive attitudes towards integration, with the opposite only being true for attachment

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219 avoidance (Van Oudenhoven & Hofstra, 2006; see also Hofstra et al., 2005). Additionally,
220 experimental studies have demonstrated positive effects of situationally inducing a sense of
221 secure attachment (Mikulincer & Shaver, 2001). Specifically, by priming a sense of
222 attachment-related security — compared to a control group — participants were found to
223 derogate out-group members less, even when their self-esteem and cultural worldviews were
224 threatened.

225 These studies suggest that feeling secure with oneself and other people should lead to
226 more secure forms of national commitment. Taken together, we assumed that high attachment
227 anxiety underscores narcissistic national commitment, while low attachment avoidance and
228 anxiety underscore secure national in-group commitment.

229 Overview of the Current Research

230 As stated before, national narcissism, in contrast to secure national identification,
231 stems from unsatisfied individual needs and a threatened ego (e.g., Cichocka, 2016; Fromm,
232 1973; Golec de Zavala et al., 2020). However, the empirical evidence identifying those exact
233 unsatisfied needs or psychological difficulties underpinning narcissistic in-group commitment
234 is scarce. In turn, comprehending the psychological roots of national narcissism would be
235 beneficial for future interventions – as targeting them at groups with specific difficulties
236 could be more efficient. Therefore, our research aims to fill this gap by investigating another
237 possible foundation of the types of in-group commitment: adult attachment styles.

238 We tested our hypotheses in a series of four studies. We assumed that high attachment
239 anxiety should be linked to a *defensive form of in-group commitment*, that is national
240 narcissism when controlled for national identification (H1). Moreover, we hypothesized that
241 low attachment avoidance (H2) and anxiety (H3) should be linked to a *secure form of in-*
242 *group commitment*, that is national identification when controlled for national narcissism. We
243 expected the relationships between attachment and different types of in-group commitment to

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244 be especially pronounced when controlled for the shared variance between national narcissism
245 and national identification. For this reason, we first report zero-order correlations and then,
246 we report the effects of attachment anxiety and avoidance on each type of in-group
247 commitment, while considering both national narcissism and national identification in one
248 model (i.e., controlling for their shared variance). We investigate these effects in three cross-
249 sectional surveys (Study 1, Study 3, and Study 4) and one two-wave survey (Study 2), in
250 which we focus on the reciprocal paths between attachment anxiety and avoidance, and both
251 forms of in-group commitment. In Study 3 and Study 4, we additionally check whether both
252 types of in-group commitment may differentially mediate the relationships between
253 attachment and group-related outcomes: nonnormative collective action (Studies 3),
254 conspiracy beliefs (Studies 3 and 4), and willingness to conspire against one's in-group
255 (Study 4). Our studies were not preregistered. In all studies, we aimed to include at least 400
256 participants, which gave us a power of .80 for detecting even small associations between
257 variables (for $r = .14$; Cohen, 1988; G*Power yields a target of 395 participants). Data (with
258 labelled variables) for all studies are available at the Open Science Framework:
259 https://osf.io/t7k4g/?view_only=9da20b2635bd460d928ddef3b988d511.

260 **Study 1**

261 In Study 1, we checked for the relationships between attachment anxiety and
262 avoidance, and two forms of national identity. We assumed that high attachment anxiety
263 should be associated with national narcissism (when controlled for national identification),
264 whereas low attachment anxiety and avoidance should be linked to national identification
265 (when controlled for national narcissism).

266 **Method**

267 *Participants and Procedure*

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268 The data for Study 1 was obtained from a 2019 online survey, conducted by a local
269 research company, also used in other academic studies (e.g., Marchlewska, Cichocka, et al.,
270 2019). Five hundred seventy Polish participants were recruited for this Study (284 women,
271 286 men), aged between 18 and 25 ($M = 22.14$, $SD = 2.24$). The sample was non-probability,
272 quota-based, and representative of young Polish adults in terms of gender, education, and size
273 of the place of residence. Quotas were selected based on the last National Census of
274 Population and Housing, carried out by the Central Statistical Office (Główny Urząd
275 Statystyczny; GUS).

276 Measures

277 The scales employed in the present research were part of a larger questionnaire that
278 included the measures of various personality and social psychology constructs (e.g., need for
279 cognitive closure; Kossowska et al., 2012).² Unless otherwise noted, all measures used a
280 response scale ranging from 1 (*strongly disagree*) to 5 (*strongly agree*).

281 **Attachment.** The Revised Adult Attachment Scale (RAAS; Collins, 1996; Adamczyk
282 & Pilarska, 2012) was employed to measure adult attachment. While the initial version of the
283 RAAS consists of three subscales (i.e., anxiety [e.g., “I often worry that romantic partners
284 don’t really love me.”], close [e.g., “I find it relatively easy to get close to people.”], and
285 depend [e.g., “I find it difficult to allow myself to depend on others.”]), for this study we
286 formed the attachment avoidance index by combining close and depend subscales (see
287 Collins, 2008). Within the avoidance subscale, five items were recorded (three items of
288 depend subscale and two items of close subscale) according to alternative scoring proposed by
289 Collins (2008). At the same time, the original anxiety subscale was used as a measure of

² This dataset was also used by Marchlewska, Cichocka, et al. (2022) and Michalski et al. (2021), though relationships between different variables were analyzed.

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290 attachment anxiety. Both attachment avoidance ($\alpha = .70$) and anxiety ($\alpha = .86$) were
 291 internally consistent.³

292 **National Identification.** To assess national identification, we used the full, 12-item
 293 Social Identification Scale (Cameron, 2004), where Poles served as the reference group (e.g.,
 294 “I have a lot in common with other Poles”; $\alpha = .86$).

295 **National Narcissism.** Collective narcissism with respect to the national in-group
 296 (national narcissism) was measured with the short, five-item version of the Collective
 297 narcissism Scale (e.g., “If the Polish nation had a major say in the world, the world would be
 298 a much better place”; $\alpha = .85$; Golec de Zavala et al., 2013).

299 **Covariates.** Political conservatism (1 = *left*, 7 = *right*), gender (0 = *female*, 1 = *male*),
 300 age, education (1 = *primary degree or no degree*, 2 = *vocational degree*, 3 = *high school or*
 301 *post-secondary degree*, 4 = *university degree*), and size of the place of residence (1 = *rural*
 302 *area or village*, 2 = *town up to 20,000 residents*, 3 = *town 20,001 – 100,000 residents*, 4 =
 303 *town 100,001 – 200,000 residents*, 5 = *city 200,001 – 500,000 residents*, 6 = *city with more*
 304 *than 500,000 residents*) served as covariates⁴.

305 Results

306 Analytic Strategy

307 Our analyses were divided into two parts – inspecting zero-order correlations and
 308 hypotheses testing. To verify our hypotheses, we tested two path models. First, we regressed
 309 national narcissism on attachment anxiety and avoidance, and on national identification.
 310 Accounting for the national identification allowed us to check whether attachment anxiety and
 311 avoidance explained the variance in national narcissism when national identification was

³ For this and the following studies, analyses employing the three original RAAS subscales are presented in the Online Supplement.

⁴ We have included demographic covariates in each of the reported studies to account for the potential weaknesses in the data collection process and to make our results more generalizable.

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312 controlled for.⁵ Likewise, to check whether attachment anxiety and avoidance predicted
313 national identification (when controlled for national narcissism), we tested a separate model,
314 in which national identification was regressed on attachment anxiety and avoidance, and on
315 national narcissism. Finally, we checked whether 1) accounting for the covariates, and 2)
316 using robust estimation method changed our results in a theoretically meaningful way.
317 Missing data (0.8%) was handled with the Full Information Maximum Likelihood (FIML)
318 estimator (Enders & Bandalos, 2001). All models were estimated with the use of Mplus 8.0.
319 Given that the analyzed models were saturated (i.e., without degrees of freedom), we do not
320 report any fit indices.

321 *Preliminary Analyses*

322 Table 1 presents descriptive statistics and intercorrelations for the variables measured
323 in Study 1. In comparison to women, men reported more conservative political views, $M =$
324 4.08 , $SD = 1.50$ versus $M = 4.58$, $SD = 1.30$, $t(362.04) = -3.48$, $p < .001$, $d = 0.35$. Gender did
325 not differentiate participants in terms of attachment anxiety or avoidance, national narcissism,
326 national identification, or demographics (all $ps > .064$). Attachment anxiety was associated
327 positively with national narcissism and negatively with national identification, whereas
328 avoidance displayed a negative link with national identification only.

⁵ For a similar method employed to obtain RWA when controlled for SDO, and SDO when controlled for RWA, see Cichocka et al., 2017.

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329 **Table 1**330 *Descriptive Statistics and Correlations (Study 1)*

	<i>M</i>	<i>SD</i>	2	3	4	5	6	7	8
1. Attachment Anxiety	3.19	0.77	.45***	.19***	-.11*	-.04	.001	-.02	-.11*
2. Attachment Avoidance	3.01	0.46	–	.01	-.21***	.04	.04	-.02	-.10*
3. National Narcissism	3.04	0.79		–	.37***	.35***	-.08	-.03	-.13**
4. National Identification	3.21	0.61			–	.15***	.01	.08	-.05
5. Political Conservatism	4.34	1.42				–	.03	-.05	-.06
6. Age	22.14	2.24					–	.25***	.05
7. Education	2.56	1.01						–	-.03
8. Size of the place of residence	2.79	1.77							–

331 *Note. N = 570.*332 *** $p < .001$. ** $p < .01$. * $p < .05$.

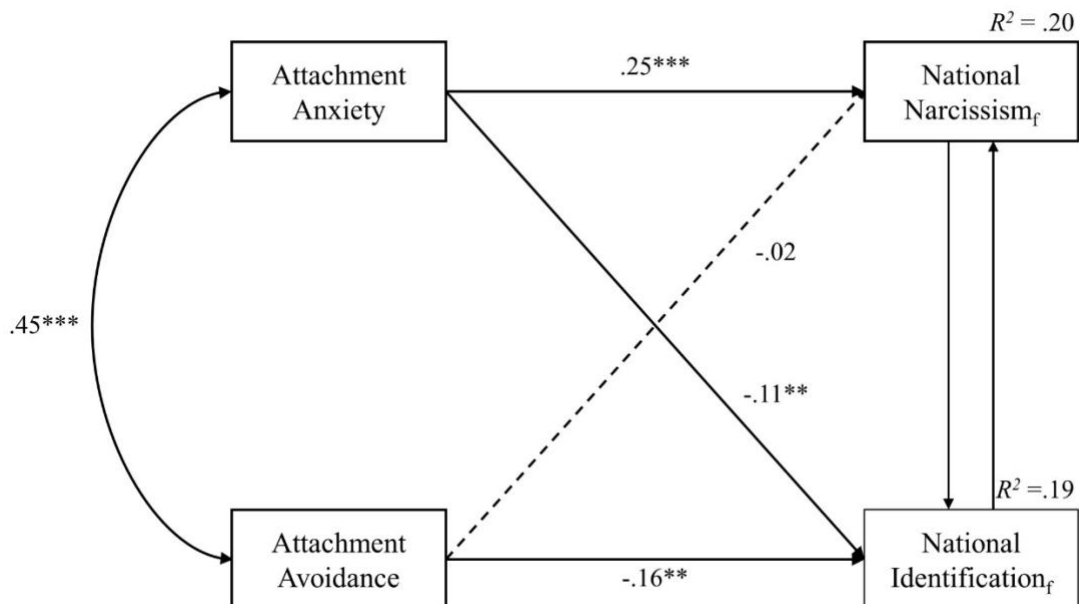
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333 **Hypotheses Testing**

334 As presented in Figure 1, attachment anxiety was positively related to national
 335 narcissism (when controlled for national identification), $B = 0.25$, $SE = 0.04$, 95% CI [0.17,
 336 0.34], $\beta = .25$, $p < .001$, but attachment avoidance was unrelated to national narcissism, $B = -$
 337 0.04, $SE = 0.07$, 95% CI [-0.19, 0.10], $\beta = -.02$, $p = .585$. At the same time, both attachment
 338 anxiety, $B = -0.09$, $SE = 0.03$, 95% CI [-0.16, -0.02], $\beta = -.11$, $p = .009$, and avoidance, $B = -$
 339 0.21, $SE = 0.06$, 95% CI [-0.32, -0.10], $\beta = -.16$, $p < .001$, were negatively related to the non-
 340 narcissistic national identification (i.e., national identification when controlled for national
 341 narcissism). Adding covariates into the model or using the robust estimation method did not
 342 alter our conclusions.

343 **Figure 1**

344 *Results of Path Models Testing the Effects of Attachment Anxiety and Attachment Avoidance*
 345 *on National Narcissism (When Controlled for National Identification) and National*
 346 *Identification (When Controlled for National Narcissism), Study 1*



347

348

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349 *Note.* Standardized coefficients presented. National Narcissism_f = national narcissism
350 accounting for national identification (a model including the path from National Identification
351 to National Narcissism). National Identification_f = national identification accounting for
352 national narcissism (a model including the path from National Narcissism to National
353 Identification). Dashed arrows reflect nonsignificant effects ($p \geq .05$).
354 ** $p < .01$. *** $p < .001$.

355 Discussion

356 Study 1 offered initial support for our theorizing, confirming our hypotheses. In a
357 sample of young adults, national narcissism (when controlled for national identification) was
358 positively related to attachment anxiety but not to avoidance. Thus, H1 received full support.
359 In turn, national identification (when controlled for national narcissism) was negatively
360 associated with both attachment anxiety and avoidance, which confirmed H2 and H3 in full as
361 well.

362 Study 2

363 Although the results from Study 1 were encouraging, they were rather preliminary.
364 Therefore, in Study 2, we tested our main hypotheses utilizing a two-wave study design,
365 assuming that the relations identified in Study 1 would remain stable over time. Moreover, as
366 the sample in Study 1 was drawn from the population of young adults, generalizability of our
367 findings could be questioned. Thus, in Study 2 data was collected in a nationwide survey of
368 adult Poles.

369 Method**370 *Participants and Procedure***

371 Study 2 was administered as part of a two-wave in-house survey of adult Poles. To
372 obtain a representative sample in the first wave, we employed random sampling based on the
373 Polish identity number (PESEL) as the sampling frame. The two measurements were divided

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374 by a six-month interval. Data was collected using computer-assisted personal interviews. Out
375 of the 1,300 respondents who participated in the first measurement, 808 (62.2%)⁶ took part in
376 the second measurement.⁷ Only individuals who participated in both waves of the survey
377 comprised the sample of this study (429 female, 379 male, $M_{age} = 46.62$, $SD_{age} = 16.27$).

378 *Measures*

379 Measures used in the analyses presented below were embedded in a larger
380 questionnaire that assessed a range of psychology constructs (e.g., right-wing
381 authoritarianism; Funke, 2005). Due to space constraints, short versions of the original
382 measures were employed.

383 **Attachment.** To measure the participants' level of attachment avoidance, we used
384 four items from the RAAS depend and close subscales (Collins, 2008): "I find it relatively
385 easy to get close to others," "I am comfortable developing close relationships with others," "I
386 know that people will be there when I need them," and "I am comfortable depending on
387 others" (1 = *strongly disagree*, 7 = *strongly agree*). Prior to forming the attachment avoidance
388 index, all four items were reverse-scored. The scale showed satisfactory reliability across both
389 measurement occasions, $\alpha_{T1} = .85$, $\alpha_{T2} = .85$. At the same time, attachment anxiety was
390 assessed with two items taken from the RAAS anxiety subscale: "When I show my feelings
391 for others, I'm afraid they will not feel the same about me" and "I often worry that romantic
392 partners won't want to stay with me" (1 = *strongly disagree*, 7 = *strongly agree*). The
393 correlation between these items was moderate, $r_{T1}(724) = .40$, $p < .001$ $r_{T2}(776) = .49$, $p <$
394 $.001$.

395 **National Identification.** National identification was assessed with three items
396 borrowed from Cameron's scale (2004; see also Górska et al., 2020): "I feel strong ties to

⁶ The contract with the research company specified the minimal retention rate to 60%.

⁷ Participants' drop-out was not predicted by neither political conservatism nor demographics.

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397 other Poles” (in-group ties), “In general, being a Pole is an important part of my self-image”
398 (in-group centrality), and “In general, I'm glad to be a Pole” (in-group affect). The response
399 scale ranged from 1 = *strongly disagree* to 5 = *strongly agree*. The scale was internally
400 consistent, $\alpha_{T1} = .86$, $\alpha_{T2} = .82$

401 **National Narcissism.** National narcissism was assessed as in Study 1 (Golec de
402 Zavala et al., 2013), $\alpha_{T1} = .89$, $\alpha_{T2} = .87$.

403 **Covariates.** Similar to Study 1, political conservatism (1 = *left*, 7 = *right*), gender (0 =
404 *female*, 1 = *male*), age, education, and size of the place of residence served as covariates.

405 Results

406 *Analytic Strategy*

407 Again, our analyses involved two steps. First, we inspected intercorrelations for the
408 variables of interest. Next, an autoregressive cross-lagged path model (Selig & Little, 2012)
409 was estimated to verify our hypotheses. In this solution, each out of the four variables
410 assessed at T2 (i.e., attachment avoidance, attachment anxiety, national narcissism, and
411 national identification) was regressed on attachment avoidance, attachment anxiety, national
412 narcissism, and national identification measured at T1. Similar to Study 1, we accounted for
413 the variance shared by national narcissism and national identification at T2.⁸ To compare the
414 specific paths, we performed Wald tests. Robustness checks were the last part of our analyses
415 – we checked whether our findings changed substantively after 1) accounting for covariates
416 and 2) employing robust estimation method. Missing data (3.64%) was handled with the
417 FIML estimator. Model was estimated with the use of Mplus 8.0.

418 *Preliminary Analyses*

⁸ In fact, two autoregressive cross-lagged panel models were tested – one in which the variance shared with T2 national in-group commitment was partialled out from T2 national narcissism, and one in which the variance shared with T2 national narcissism was partialled out from T2 national identification.

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419 Descriptive statistics and intercorrelations for the variables assessed in Study 2 are
420 presented in Table 2. In comparison to men, women were slightly older ($M = 44.80$, $SD =$
421 16.34 vs. $M = 48.23$, $SD = 16.05$, $t(802) = 2.99$, $p = .003$, $d = 0.21$) and better educated, $M =$
422 12.63 , $SD = 2.68$ vs. $M = 13.17$, $SD = 3.54$, $t(719.90) = 2.37$, $p = .018$, $d = 0.17$. Gender did
423 not differentiate the participants' national narcissism, national identification, attachment
424 anxiety, attachment avoidance, or any of the remaining covariates ($ps \geq .314$). Attachment
425 avoidance and anxiety, national narcissism, and national identification were stable over time,
426 $rs \geq .53$. Across both measurements, attachment anxiety correlated positively with national
427 narcissism and attachment avoidance was related to national narcissism negatively. Moreover,
428 attachment avoidance and anxiety were associated negatively with national identification at
429 T2.

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430 **Table 2**431 *Descriptive Statistics and Correlations (Study 2)*

	<i>M</i>	<i>SD</i>	2	3	4	5	6	7	8	9	10	11	12
1. Attachment Anxiety T1	3.54	1.48	.08*	.17***	-.05	.53***	.11**	.15***	-.12***	-.05	-.12***	-.01	.10**
2. Attachment Avoidance T1	3.02	1.12	–	-.14***	-.39***	.14***	.66***	-.08*	-.35***	.00	.08*	-.11**	.09**
3. National Narcissism T1	3.15	0.97		–	.44***	.19***	-.11**	.73***	.29***	.21***	.08*	-.08*	-.07*
4. National Identification T1	3.84	0.87			–	-.13***	-.34***	.33***	.69***	.15***	.13***	-.02	-.03
5. Attachment Anxiety T2	3.51	1.38				–	.17***	.19***	-.18***	-.06	-.14***	-.01	-.01
6. Attachment Avoidance T2	2.91	1.01					–	-.12***	-.42***	-.03	.04	-.08*	.14***
7. National Narcissism T2	3.15	0.91						–	.36***	.26***	.14***	-.12**	-.12***
8. National Identification T2	3.84	0.82							–	.20***	.16***	-.07	-.14***
9. Political conservatism	4.35	1.65								–	.12**	-.17***	-.15***
10. Age	46.62	16.27									–	-.30***	-.01
11. Education	12.92	3.18										–	.15***
12. Size of the place of residence	2.57	1.75											–

432 *Note.* *Ns* from 655 to 808.433 *** $p < .001$. ** $p < .01$. * $p < .05$.

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434 *Hypotheses Testing*

435 Figure 2 shows the results for the autoregressive cross-lagged path model tested in
 436 Study 2. Attachment anxiety, $B = 0.04$, $SE = 0.02$, 95% CI [0.01, 0.07], $\beta = .06$, $p = .012$, and
 437 avoidance, $B = 0.05$, $SE = 0.02$, 95% CI [0.01, 0.09], $\beta = .06$, $p = .019$ measured at T1 were
 438 positively related to national narcissism (when controlled for national identification) assessed
 439 at T2. Moreover, national narcissism assessed at T1 was positively related to itself at T2, $B =$
 440 0.67 , $SE = 0.03$, 95% CI [0.62, 0.72], $\beta = .71$, $p < .001$. National identification at T1 was
 441 negatively related to national narcissism at T2, $B = -0.17$, $SE = 0.04$, 95% CI [-0.24, -0.10], β
 442 $= -.16$, $p < .001$.

443 Moreover, both attachment anxiety, $B = -0.05$, $SE = 0.01$, 95% CI [-0.08, -0.02], $\beta = -$
 444 $.09$, $p < .001$) and avoidance, $B = -0.08$, $SE = 0.02$, 95% CI [-0.11, -0.04], $\beta = -.10$, $p < .001$)
 445 assessed at T1 were negatively related to non-narcissistic national identification measured at
 446 T2. Furthermore, national identification at T1 was positively related to itself at T2, $B = 0.60$,
 447 $SE = 0.03$, 95% CI [0.55, 0.66], $\beta = .64$, $p < .001$). National narcissism assessed at T1 was
 448 negatively related to national identification at T2, $B = -0.20$, $SE = 0.03$, 95% CI [-0.26, -0.14],
 449 $\beta = -.23$, $p < .001$.

450 Interestingly, national narcissism assessed at T1 was positively related to attachment
 451 anxiety measured at T2, $B = 0.28$, $SE = 0.05$, 95% CI [0.18, 0.37], $\beta = .19$, $p < .001$, and this
 452 effect was significantly stronger than the reverse effect of T1 attachment anxiety on T2
 453 national narcissism, $\chi^2(1) = 22.10$, $p < .001$. Moreover, there was a negative overtime effect
 454 of the T1 national identification on T2 attachment anxiety, $B = -0.27$, $SE = 0.06$, 95% CI [-
 455 0.38 , -0.16], $\beta = -.17$, $p < .001$, which again was significantly stronger than its reverse
 456 counterpart, $\chi^2(1) = 13.83$, $p < .001$. The effect of T1 attachment anxiety on itself at T2 was
 457 positive and significant, $B = 0.45$, $SE = 0.03$, 95% CI [0.39, 0.50], $\beta = .48$, $p < .001$. The

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458 effect of T1 attachment avoidance did not reach significance, $B = 0.07$, $SE = 0.04$, 95% CI [-
459 0.01, 0.15], $\beta = .06$, $p = .067$.

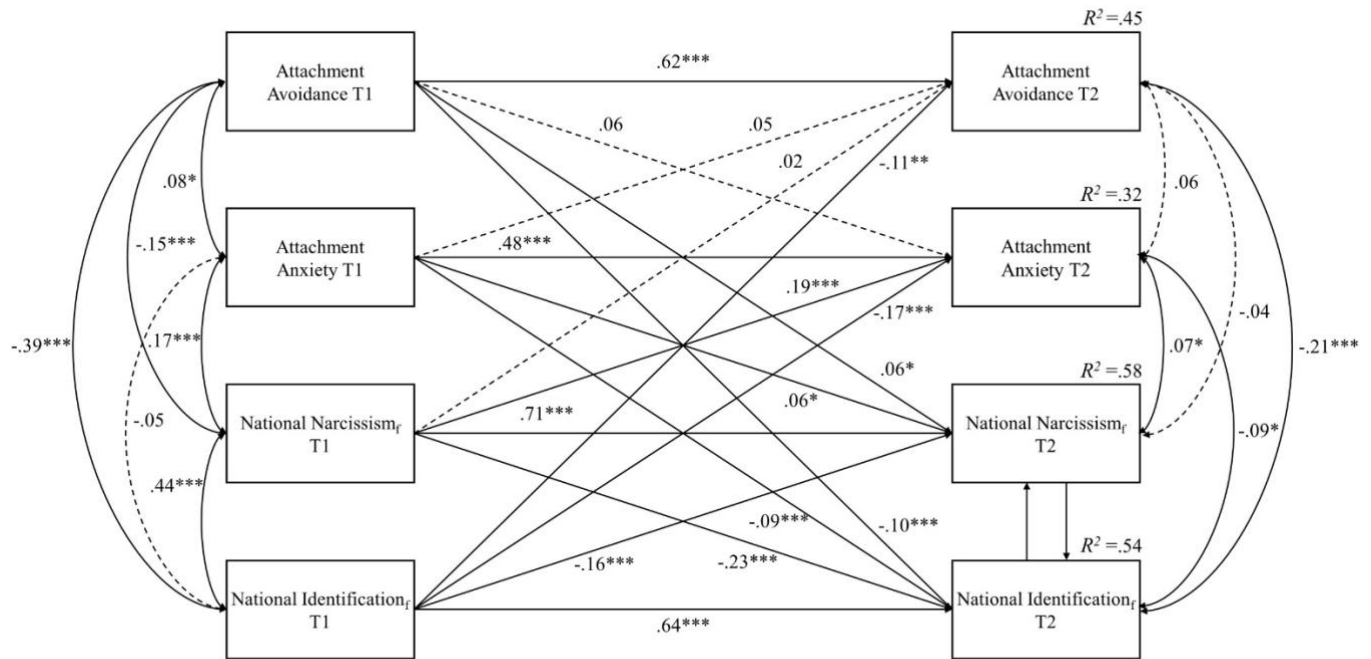
460 National identification assessed at T1 was negatively related to attachment avoidance
461 measured at T2, $B = -0.13$, $SE = 0.04$, 95% CI [-0.20, -0.05], $\beta = -.11$, $p = .001$, and this effect
462 did not differ from the reverse negative effect of T1 attachment avoidance on T2 national
463 identification, $\chi^2(1) = 1.33$, $p = .250$. By contrast, national narcissism assessed at T1 was not
464 associated with T2 attachment avoidance, $B = 0.03$, $SE = 0.03$, 95% CI [-0.04, 0.09], $\beta = .02$,
465 $p = .423$. However, this effect did not differ significantly from the positive effect of T1
466 attachment avoidance on T2 national narcissism, $\chi^2(1) = 0.31$, $p = .577$. Moreover, T1
467 attachment avoidance was positively related to itself at T2, $B = 0.56$, $SE = 0.03$, 95% CI [0.51,
468 0.61], $\beta = .62$, $p < .001$. Attachment anxiety measured at T1 was unrelated to attachment
469 avoidance at T2, $B = 0.03$, $SE = 0.02$, 95% CI [-0.004, 0.07], $\beta = .05$, $p = .083$.

470 Adding covariates into the model slightly changed the results. Specifically, while
471 attachment anxiety measured at T1 still was positively associated to national narcissism
472 measured at T2, attachment avoidance assessed at T1 was no longer associated with T2
473 national narcissism. At the same time, the negative effects of T1 attachment anxiety and T1
474 attachment avoidance on national identification assessed at T2 remained significant. Using
475 MLR estimation did not alter the results in a meaningful way.

476 Figure 2

477 *Results of Autoregressive Cross-Lagged Panel Models Testing the Relationships Between*
478 *Attachment Anxiety, Attachment Avoidance, National Narcissism (When Controlled for*
479 *National Identification), and National Identification (When Controlled for National*
480 *Narcissism), Study 2*

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481

482 *Note.* Standardized coefficients presented. National Narcissism_f T2 = national narcissism at
 483 T2 accounting for national identification at T2 (a model including the path from National
 484 Identification at T2 to National Narcissism at T2). National Identification_f T2 = national
 485 identification at T2 accounting for national narcissism at T2 (a model including the path from
 486 National Narcissism at T2 to National In-group Commitment at T2). Dashed arrows reflect
 487 nonsignificant effects ($p \geq .05$).

488 * $p < .05$. ** $p < .01$. *** $p < .001$.

489

490 **Discussion**

491 Study 2 provided further support for our hypotheses and overcame some of the
 492 limitations of Study 1. Attachment anxiety exerted a positive overtime effect on national
 493 narcissism (when controlled for national identification), thus confirming H1. Moreover, we
 494 also found an unexpected positive effect of attachment avoidance on national narcissism
 495 (when controlled for national identification). At the same time, the longitudinal effects of

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496 attachment anxiety and avoidance on national identification (when controlled for national
497 narcissism) were negative, which again confirmed H2 and H3. Thus, except for the significant
498 positive effect of attachment avoidance on national narcissism, the results from a different
499 population were in high congruence to the young adult population reported in Study 1.

500 Moreover, within the current study, we found evidence in favor of some reverse
501 effects. Specifically, national identification (when controlled for national narcissism) had
502 negative overtime effects on attachment anxiety and avoidance. Moreover, national
503 narcissism served as a positive longitudinal predictor of attachment anxiety. As such, the
504 relationships between attachment anxiety and the two types of national in-group commitment,
505 as well as attachment avoidance and national identification, turned out to be reciprocal.

506 **Study 3**

507 Results of Studies 1 and 2 provided evidence that attachment anxiety is associated
508 with national narcissism (when controlled for national identification). We also found that both
509 types of attachment (i.e., anxiety and avoidance) were negatively related to national
510 identification (when controlled for national narcissism). However, our knowledge of *how* this
511 association might explain other, socially undesirable phenomena was still limited. Previous
512 research found both anxious (but not avoidant; Green & Douglas, 2018) attachment and
513 national narcissism (but not national identification; Marchlewska et al., 2020) to predict
514 negative intra- and intergroup outcomes (e.g., conspiracy beliefs, see Green & Douglas,
515 2018). These studies, however, did not analyze the link between attachment and the two types
516 of in-group commitment in question. Thus, the purpose of Study 3 was to assess whether the
517 two types of attachment facilitated conspiracy theory beliefs and radical collective action by
518 affecting different types of in-group commitment. Specifically, we hypothesized that the
519 positive effect of attachment anxiety (but not avoidance) on conspiracy beliefs would be
520 mediated by increased national narcissism (when controlled for national identification) but not

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521 national identification (when controlled for national narcissism). Understanding the
522 relationship between attachment and these two types of socially undesirable phenomena could
523 enable future interventions to be more effective. As studies show, endorsement of conspiracy
524 beliefs might pose a threat for public safety as it, for example, can discourage people from
525 vaccinating themselves against COVID-19 (Marchlewska, Hamer, et al., 2022). Radical
526 collective actions are also dangerous for public safety, as they may be directly related to
527 violence against out-groups (e.g., attacks on LGBTQ demonstrators in Poland).

528 Method**529 *Participants and Procedure***

530 Data for Study 3 was obtained in an online survey of Poles aged between 18 and 26
531 ($M = 23.30$, $SD = 2.12$).⁹ The sample consisted of $N = 558$ individuals (272 female, 286
532 male), which constituted 53.24% of the sample employed in the first measurement.¹⁰
533 Importantly, the sample gathered in the first wave of the survey was representative of young
534 adults in the Polish society in terms of gender, age, and size of the place of residence.¹¹As in
535 Study 1, data collection was carried out by an external, local research company specializing in
536 markt research. Quotas used by the chosen company were based on the last National Census
537 of Population and Housing, carried out by the Central Statistical Office (Główny Urząd
538 Statystyczny; GUS). In exchange for participation in the survey, participants were given small
539 material rewards. Study 3 was conducted during the COVID-19 pandemic.

540 *Measures*

⁹ Since the first measurement was carried out prior to the outbreak of the pandemic, the questionnaire did not assess COVID-19 conspiracy beliefs. As we were interested in the effects that different types of attachment and in-group commitment had on conspiracy theory beliefs, we decided to limit our analyses to the data gathered in the second measurement. Analyses using data collected in the first measurement are presented in the Supplement.

¹⁰ The contract signed with the research company specified that the retention rate would be no lower than 50%.

¹¹ Participants' drop-out was predicted by gender and age – men and older respondents were more likely to take part in the second measurement (see the Supplement).

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541 Measures employed in Study 3 were part of a larger questionnaire that included scales
 542 of various personality and social-psychological constructs.¹² Unless otherwise noted, all
 543 measures utilized a 5-point response scale (1 = *strongly disagree*, 5 = *strongly agree*).

544 **Attachment.** To assess attachment, we used the same measure as in Study 1 (RAAS;
 545 Collins, 1996; Adamczyk & Pilarska, 2012). Both attachment anxiety ($\alpha = .88$) and avoidance
 546 ($\alpha = .76$) subscales showed satisfactory reliability.

547 **National Identification.** National in-group commitment was measured as in Study 1
 548 (Cameron, 2004; $\alpha = .85$).

549 **National Narcissism.** National narcissism was assessed as in Studies 1 and 2 (Golec
 550 de Zavala et al., 2013). The measure was internally consistent, $\alpha = .89$.

551 **COVID-19 Conspiracy Beliefs.** Fourteen items were used to assess COVID-19
 552 conspiracy beliefs (based on Kowalski et al., 2020). Sample items read: “The coronavirus
 553 does not really exist – it was invented to distract attention from behind-the-scenes political
 554 games” and “The coronavirus was made up to restrict people’s freedom and control them” (1
 555 = *strongly disagree*, 7 = *strongly agree*).¹³ The scale showed high reliability, $\alpha = .97$.¹⁴

556 **Nonnormative Collective Action.** Four items were used to tap into nonnormative
 557 collective action. Participants were presented with different forms of nonnormative
 558 engagement (i.e., blocking the streets, destroying property, attending an illegal demonstration,
 559 and attending an illegal gathering) and asked to declare whether they had done it, whether
 560 they might do it in the future or would never engage in it. Responses were recorded on a 4-
 561 point scale (1 = *would never do*, 2 = *might do it*, 3 = *have done it once or twice*, 4 = *do it on a*
 562 *regular basis*). The scale demonstrated good reliability, $\alpha = .95$.

¹² This dataset was also used by Łowicki et al. (2022) and Rogoza et al. (2022).

¹³ For the full list of items comprising the scale, see the online Supplement.

¹⁴ In fact, participants responded to 16 questions tapping on COVID-19 conspiracy theories. However, since two items created a separate factor in EFA, we decided not to include them in the composite score. For details, see the online Supplement.

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563 **Covariates.** Again, the covariates involved political conservatism, gender (0 = *female*,
564 1 = *male*), age, education and size of the place of residence.

565 **Results**566 *Analytic Strategy*

567 Similar to Studies 1 and 2, our analyses were divided into two parts. First, we
568 inspected gender effects and intercorrelations between the variables of interest. Next, two path
569 models were estimated to test our hypotheses. In both models, national narcissism and
570 national identification were regressed on attachment anxiety and avoidance. At the same time,
571 COVID-19 conspiracy beliefs and nonnormative collective action were regressed on the two
572 aspects of attachment and different types of national in-group commitment. Robustness
573 checks involved 1) accounting for the covariates and 2) using MLR estimation. Bootstrapping
574 with 10,000 re-samples was used to obtain 95% CIs for the indirect effects. Using the FIML
575 as an estimation method accounted for the missing data (0.10%). Models were estimated with
576 the use of Mplus 8.0. Given the analyzed models were saturated (i.e., without degrees of
577 freedom), we do not report any fit indices.

578 *Preliminary Analyses*

579 Table 3 presents the descriptive statistics and intercorrelations for the variables
580 assessed in Study 3. In comparison to women, men exhibited higher national narcissism ($M =$
581 2.78 , $SD = 0.88$ vs. $M = 2.94$, $SD = 0.92$, $t(556) = -2.03$, $p = .043$, $d = 0.17$), declared higher
582 nonnormative engagement ($M = 1.57$, $SD = 0.81$ vs. $M = 1.82$, $SD = 0.92$, $t(547.31) = -3.38$, p
583 $< .001$, $d = 0.29$), and more right-wing political orientation ($M = 3.82$, $SD = 1.37$ vs. $M =$
584 4.07 , $SD = 1.49$, $t(556) = -2.36$, $p = .019$, $d = 0.20$). Gender did not differentiate the remaining
585 variables, all p 's $\geq .056$.

586 Attachment anxiety correlated positively with national narcissism, national
587 identification, COVID-19 conspiracy beliefs, and nonnormative collective action. The

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588 association between attachment avoidance and national identification was negative. In line
589 with past research (e.g., Górska & Bilewicz, 2021; Górska et al., 2020; Górska, Marchlewska,
590 et al.,2022; Marchlewska, Cichocka, et al., 2019), national narcissism was positively linked to
591 national identification, COVID-19 conspiracy beliefs, and nonnormative collective action.
592 National identification correlated positively with COVID-19 conspiracy beliefs but remained
593 unrelated to nonnormative engagement. Nonnormative collective action was positively
594 associated with COVID-19 conspiracy beliefs, which confirmed recent results (Imhoff et al.,
595 2021).

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596 **Table 3**597 *Descriptive Statistics and Correlations (Study 3)*

	<i>M</i>	<i>SD</i>	2	3	4	5	6	7	8	9	10
1. Attachment Anxiety	3.06	0.87	.48***	.22***	.09*	.16***	.12**	-.01	-.03	-.05	-.03
2. Attachment Avoidance	3.02	0.54	–	-.002	-.08*	.06	.02	-.04	.03	-.02	-.05
3. National Narcissism	2.86	0.90		–	.58***	.50***	.20***	.43***	.02	-.14***	-.16***
4. National Identification	3.25	0.89			–	.15***	-.03	.39***	.06	-.02	-.12**
5. COVID-19 Conspiracy Beliefs	3.15	1.52				–	.34***	.27***	-.03	-.27***	-.19***
6. Nonnormative collective action	1.70	0.88					–	.08†	-.03	-.12**	.10*
7. Political conservatism	3.82	1.50						–	.07	-.01	-.14***
8. Age	23.30	2.12							–	.38***	.15***
9. Education	3.29	0.73								–	.23***
10. Size of the place of residence	2.67	1.79									–

598 *Note.* *Ns* ranging from 552 to 558.599 ****p* < .001. ***p* < .01. **p* < .05. †*p* < .10.

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600 *Hypotheses Testing*

601 Figure 3 presents the results of the tested path model. Attachment anxiety was
 602 positively related to national narcissism (when controlled for national identification), $B =$
 603 0.20 , $SE = 0.04$, 95% CI $[0.12, 0.28]$, $\beta = .20$, $p < .001$, but attachment avoidance was not, $B =$
 604 -0.08 , $SE = 0.07$, 95% CI $[-0.21, 0.04]$, $\beta = -.05$, $p = .201$. In turn, attachment avoidance
 605 was negatively related to national identification, $B = -0.13$, $SE = 0.07$, 95% CI $[-0.26, -0.01]$,
 606 $\beta = -.08$, $p = .038$, but attachment anxiety was not, $B = 0.00$, $SE = 0.04$, 95% CI $[-0.08, 0.08]$,
 607 $\beta = .00$, $p = .991$. In line with our expectations, national narcissism was positively associated
 608 to COVID-19 conspiracy beliefs, $B = 1.03$, $SE = 0.08$, 95% CI $[0.88, 1.18]$, $\beta = .61$, $p < .001$,
 609 and nonnormative collective action, $B = 0.29$, $SE = 0.05$, 95% CI $[0.19, 0.39]$, $\beta = .30$, $p <$
 610 $.001$. By contrast, national identification showed opposite relationships with these two DVs (B
 611 $= -0.35$, $SE = 0.08$, 95% CI $[-0.50, -0.20]$, $\beta = -.21$, $p < .001$ and $B = -0.20$, $SE = 0.05$, 95% CI
 612 $[-0.30, -0.10]$, $\beta = -.20$, $p < .001$, respectively). The direct effects of attachment avoidance on
 613 COVID-19 conspiracy beliefs ($B = 0.06$, $SE = 0.12$, 95% CI $[-0.16, 0.29]$, $\beta = .02$, $p = .592$)
 614 and nonnormative collective action ($B = -0.06$, $SE = 0.08$, 95% CI $[-0.21, 0.09]$, $\beta = -.04$, $p =$
 615 $.449$) were both nonsignificant. At the same time, while the positive effect of attachment
 616 anxiety on nonnormative collective action approached significance ($B = 0.09$, $SE = 0.05$, 95%
 617 CI $[-0.003, 0.19]$, $\beta = .09$, $p = .058$), attachment anxiety was unrelated to COVID-19
 618 conspiracy beliefs, $B = 0.06$, $SE = 0.07$, 95% CI $[-0.08, 0.21]$, $\beta = .04$, $p = .389$.

619 There was a positive indirect effect of attachment anxiety on COVID-19 conspiracy
 620 beliefs through increased national narcissism, $IE = 0.21$, $SE = 0.05$, 95% CI $[0.10, 0.33]$, $Z =$
 621 4.71 , $p < .001$. Likewise, attachment anxiety was positively associated with nonnormative
 622 collective action through increased national collective narcissism, $IE = 0.06$, $SE = 0.02$, 95%
 623 CI $[0.03, 0.10]$, $Z = 3.80$, $p < .001$. However, national narcissism did not mediate the effect of
 624 attachment avoidance on COVID-19 conspiracy beliefs ($IE = -0.09$, $SE = 0.07$, 95% CI $[-0.27,$

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625 0.09], $Z = , p = .203$) or nonnormative collective action, $IE = -0.02$, $SE = 0.02$, 95% CI [-0.08,
626 0.03], $Z = -1.25$, $p = .211$.

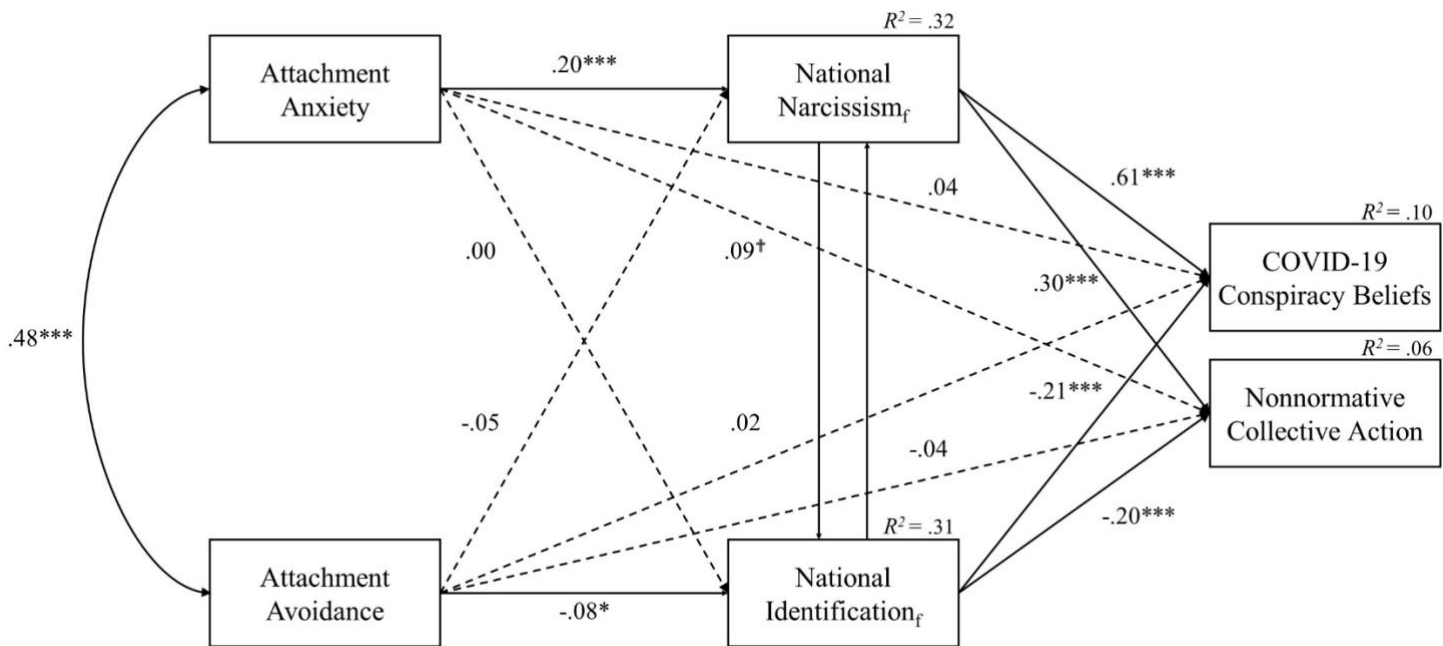
627 By contrast, attachment avoidance did not exert a positive indirect effect neither on
628 COVID-19 conspiracy beliefs nor nonnormative collective action through decreased national
629 identification ($IE = 0.05$, $SE = 0.03$, 95% CI [-0.01, 0.12], $Z = 1.89$, $p = .058$, and $IE = 0.03$,
630 $SE = 0.02$, 95% CI [-0.01, 0.07], $Z = 1.85$, $p = .065$, respectively). Likewise, the indirect
631 effects of attachment anxiety via decreased national identification did not reach significance
632 ($IE = 0.00$, $SE = 0.02$, 95% CI [-0.04, 0.04], $Z = -0.01$, $p = .991$ for COVID-19 conspiracy
633 beliefs and $IE = 0.00$, $SE = 0.01$, 95% CI [-0.02, 0.02], $Z = -0.01$, $p = .991$ for nonnormative
634 collective action).

635 Adding covariates into the model or using the robust estimation method did not alter
636 our conclusions.

637 Figure 3

638 *Results of Path Models Examining the Indirect Effects of Attachment Anxiety and Attachment*
639 *Avoidance on COVID-19 Conspiracy Beliefs and Nonnormative Collective Action via*
640 *National Narcissism (When Controlled for National Identification) and National*
641 *Identification (When Controlled for National Narcissism), Study 3*

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643 *Note.* Standardized coefficients presented. National Narcissism_f = national narcissism
 644 accounting for national identification (a model including the path from national identification
 645 to national narcissism). National Identification_f = national identification accounting for
 646 national narcissism (a model including the path from National Narcissism to National
 647 Identification). Dashed arrows reflect nonsignificant effects ($p \geq .05$).

648 $***p < .001$.

649 Discussion

650 The goal of Study 3 was to scrutinize the mediating effects of national narcissism on
 651 the relation between attachment anxiety and: a. conspiracy beliefs, and b. nonnormative
 652 engagement. More specifically, we expected that among the two types of national in-group
 653 commitment, only national narcissism (when controlled for national identification) should
 654 catalyze these socially undesirable phenomena. Results confirmed these expectations.
 655 National narcissism mediated the relationship between attachment anxiety and COVID-19
 656 conspiracy beliefs and between attachment anxiety and nonnormative collective action.
 657 National identification (when controlled for national narcissism) was negatively related to

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658 COVID-19 conspiracy beliefs and nonnormative collective action. However, the indirect
659 effect of attachment avoidance via national identification on our dependent variables did not
660 reach significance. This time, we did not find a significant relationship between attachment
661 anxiety and national identification either.

662 **Study 4**

663 In Study 4, we aimed to replicate the pattern of results obtained in previous studies in
664 a different socio-political context (i.e., among British participants). As in Study 3, we focused
665 on the relationship between attachment styles, different types of in-group commitment, and
666 COVID-19 conspiracy beliefs. This time, however, we also included an additional variable,
667 strictly related to negative intragroup processes (i.e., willingness to conspire; Douglas &
668 Sutton, 2011). Previous research found that people usually endorsed conspiracy theories when
669 they thought they would be willing, personally, to participate in the alleged conspiracies
670 (Douglas & Sutton, 2011). Thus, in Study 4, we hypothesized that the positive effect of
671 attachment anxiety (but not avoidance) on COVID-19 conspiracy beliefs would be mediated
672 by increased national narcissism and, in turn, increased willingness to conspire in the COVID-
673 19 context. In such a way, we aimed to examine whether defensive in-group commitment may
674 be related to another form of an intragroup hostility (i.e., willingness to engage in secret
675 harmful plots against one's own in-group members; see also Biddlestone et al., 2022;
676 Molenda et al., in press). One limitation of Studies 1-3 was that we measured the crucial
677 variable (i.e., national narcissism) with the use of a short (five-item) scale with no reverse-
678 coded items. Therefore, in Study 4 we also examined whether the pattern of results obtained
679 in previous studies would conceptually replicate if we used a better measurement tool (a full,
680 9-item version of the Collective Narcissism Scale; Golec de Zavala et al., 2009).

681 **Method**

682 *Participants and Procedure*

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683 Data for Study 4 was obtained in an online survey of British participants aged between
684 18 and 83 ($M = 40.74$, $SD = 12.86$) via Prolific Academic (Peer et al., 2017). The sample
685 consisted of $N = 649$ individuals (321 female, 326 male, 1 non-binary, 1 other).

686 *Measures*

687 Unless otherwise noted, all measures utilized a 5-point response scale (1 = *strongly*
688 *disagree*, 5 = *strongly agree*).

689 **Attachment.** We assessed attachment with the same measure as in Studies 1 and 3
690 (RAAS; Collins, 1996). Both attachment anxiety ($\alpha = .89$) and attachment avoidance ($\alpha =$
691 $.90$) subscales were reliable.

692 **National Identification.** National in-group commitment was measured in the same
693 way as in Study 1, that is with the full 12-item (e.g., “I often think about being British”)
694 version of Cameron’s (2004) scale, $\alpha = .89$.

695 **National Narcissism.** National narcissism was assessed with the full 9-item (e.g.,
696 “The true worth of British people is often misunderstood”) version of the Collective
697 Narcissism Scale (Golec de Zavala et al., 2009), $\alpha = .89$.

698 **Willingness to Conspire.** Willingness to conspire was measured with a 5-item scale
699 based on Douglas and Sutton (2011; e.g., “If I were in the position of governments, I would
700 manipulate the information about the coronavirus to increase my influence”), $\alpha = .93$.

701 **COVID-19 Conspiracy Beliefs.** To assess COVID-19 conspiracy beliefs, we used the
702 same 16 items as in Study 3, $\alpha = .93$.

703 **Covariates.** Again, the covariates involved political conservatism, gender (0 = *female*,
704 1 = *male*), age, education, and size of the place of residence.

705 **Results**706 *Analytic Strategy*

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707 Following Studies 1-3, we started by examining gender differences and
 708 intercorrelations. In the next step, two path models were estimated. While national narcissism
 709 and national identification were regressed on attachment anxiety and avoidance, willingness
 710 to conspire was regressed on the two types of national in-group commitment and the two
 711 facets of attachment. COVID-19 conspiracy beliefs – the outcome variable – was regressed on
 712 all other variables. To test the robustness of our conclusions, we 1) accounted for the
 713 covariates and 2) used MLR estimation. The 95% CIs for the indirect effects were obtained
 714 with bootstrapping (10,000 re-samples). As far as the psychological variables were concerned,
 715 there was no missing values in the present dataset. Models were estimated with the use of
 716 Mplus 8.0. Given the analyzed models were saturated (i.e., without degrees of freedom), we
 717 do not report any fit indices.

718 *Preliminary Analyses*

719 Table 4 displays the descriptive statistics and intercorrelations for the variables
 720 measured in Study 4. In comparison to women, men exhibited lower attachment anxiety ($M =$
 721 $2.94, SD = 0.98$ vs. $M = 2.77, SD = 0.90, t(645) = 2.24, p = .025, d = 0.18$), showed higher
 722 collective narcissism ($M = 2.07, SD = 0.75$ vs. $M = 2.23, SD = 0.78, t(645) = -2.58, p = .010,$
 723 $d = 0.20$), declared higher willingness to conspire ($M = 1.33, SD = 0.77$ vs. $M = 1.53, SD =$
 724 $1.10, t(583.82) = -2.75, p = .006, d = 0.22$), were less educated ($M = 3.38, SD = 0.79$ vs. $M =$
 725 $3.24, SD = 0.95, t(627.72) = 2.14, p = .033, d = 0.17$), as well as older ($M = 38.76, SD = 11.78$
 726 vs. $M = 42.63, SD = 13.58, t(634.87) = -3.87, p < .001, d = 0.30$), and more conservative ($M =$
 727 $4.78, SD = 1.99$ vs. $M = 5.37, SD = 2.06, t(645) = -3.68, p < .001, d = 0.29$). None of the
 728 remaining variables was differentiated by gender p 's $\geq .093$.

729 Attachment anxiety correlated positively with attachment avoidance and COVID-19
 730 conspiracy beliefs, and negatively with national identification. Attachment avoidance showed
 731 a negative association with national identification and was related positively to COVID-19

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732 conspiracy beliefs. National narcissism was associated positively with national identification,
733 COVID-19 conspiracy beliefs, and willingness to conspire. There was a positive correlation
734 between COVID-19 conspiracy beliefs and willingness to conspire.

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735 **Table 4**736 *Descriptive Statistics and Correlations (Study 4)*

	<i>M</i>	<i>SD</i>	2	3	4	5	6	7	8	9	10
1. Attachment Anxiety	2.85	0.95	.57***	.05	-.16***	.07	.13**	-.08 [†]	-.18***	-.03	.02
2. Attachment Avoidance	2.86	0.76	–	-.03	-.23***	.05	.11**	-.02	-.06	-.02	.04
3. National Narcissism	2.15	0.77		–	.53***	.18***	.23***	.47***	.17***	-.12**	-.04
4. National Identification	3.19	0.71			–	.03	-.02	.43***	.19***	-.05	-.13***
5. Willingness to conspire	1.43	0.96				–	.36***	.07 [†]	-.12**	-.03	.02
6. COVID-19 Conspiracy Beliefs	1.61	0.85					–	.06	-.09*	-.09*	.04
7. Political conservatism	5.08	2.04						–	.24***	-.17***	-.13**
8. Age	40.74	12.86							–	-.11**	-.12**
9. Education	3.31	0.88								–	.07 [†]
10. Size of the place of residence	3.09	1.07									–

737 *Note.* *N* = 649.738 ****p* < .001. ***p* < .01. **p* < .05. [†]*p* < .10.

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739 *Hypotheses Testing*

740 Figure 4 displays the results for the path model tested in Study 4. Attachment anxiety
 741 was positively related to national narcissism (when controlled for national identification), $B =$
 742 0.11 , $SE = 0.04$, 95% CI $[0.05, 0.18]$, $\beta = .14$, $p = .001$, but avoidance was not, $B = 0.02$, $SE =$
 743 0.04 , 95% CI $[-0.07, 0.10]$, $\beta = .01$, $p = .722$. At the same time, both attachment avoidance ($B =$
 744 -0.14 , $SE = 0.04$, 95% CI $[-0.21, -0.07]$, $\beta = -.15$, $p < .001$) and attachment anxiety ($B = -$
 745 0.08 , $SE = 0.03$, 95% CI $[-0.14, -0.02]$, $\beta = -.11$, $p = .006$) were negatively associated to
 746 national identification (when controlled for national narcissism). National narcissism was
 747 positively related to willingness to conspire ($B = 0.27$, $SE = 0.06$, 95% CI $[0.16, 0.39]$, $\beta = .22$,
 748 $p < .001$), but national identification ($B = -0.10$, $SE = 0.06$, 95% CI $[-0.23, 0.02]$, $\beta = -.08$, $p =$
 749 $.101$), attachment anxiety ($B = 0.02$, $SE = 0.05$, 95% CI $[-0.07, 0.12]$, $\beta = .02$, $p = .632$), and
 750 attachment avoidance ($B = 0.04$, $SE = 0.06$, 95% CI $[-0.08, 0.16]$, $\beta = .03$, $p = .524$) were not.
 751 In turn, willingness to conspire was positively related to COVID-19 conspiracy beliefs ($B =$
 752 0.28 , $SE = 0.03$, 95% CI $[0.22, 0.35]$, $\beta = .32$, $p < .001$). National narcissism was also
 753 positively related to COVID-19 conspiracy beliefs ($B = 0.28$, $SE = 0.05$, 95% CI $[0.18, 0.37]$,
 754 $\beta = .25$, $p < .001$), replicating the results of Study 3. By contrast, national identification was
 755 negatively related to COVID-19 conspiracy beliefs, $B = -0.17$, $SE = 0.05$, 95% CI $[-0.28, -$
 756 $0.07]$, $\beta = -.14$, $p = .001$. Neither attachment anxiety ($B = 0.04$, $SE = 0.04$, 95% CI $[-0.04,$
 757 $0.12]$, $\beta = .05$, $p = .281$), nor attachment avoidance ($B = 0.04$, $SE = 0.05$, 95% CI $[-0.06,$
 758 $0.14]$, $\beta = .04$, $p = .395$) were related to the outcome variable.

759 In accordance with our expectations, there was a positive indirect effect of attachment
 760 anxiety on COVID-19 conspiracy beliefs via increased national narcissism and willingness to
 761 conspire, $IE = 0.01$, $SE = 0.003$, 95% CI $[0.003, 0.02]$, $Z = 2.65$, $p = .008$. At the same time,
 762 attachment anxiety exerted a positive effect on COVID-19 conspiracy beliefs by increasing
 763 national narcissism, $IE = 0.03$, $SE = 0.01$, 95% CI $[0.01, 0.06]$, $Z = 2.93$, $p = .003$. By

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764 contrast, the indirect effect of attachment avoidance on COVID-19 conspiracy beliefs
 765 thorough national narcissism and willingness to conspire ($IE = 0.001$, $SE = 0.003$, 95% CI [-
 766 0.01, 0.01], $Z = 0.35$, $p = .723$), as well as national narcissism, were nonsignificant, $IE =$
 767 0.004, $SE = 0.01$, 95% CI [-0.02, 0.03], $Z = 0.35$, $p = .723$.

768 National identification mediated the effects of attachment anxiety ($IE = 0.01$, $SE =$
 769 0.01, 95% CI [0.004, 0.03], $Z = 2.10$, $p = .035$) and attachment avoidance ($IE = 0.02$, $SE =$
 770 0.01, 95% CI [0.01, 0.05], $Z = 2.49$, $p = .013$) on COVID-19 conspiracy beliefs. Neither
 771 attachment anxiety ($IE = 0.002$, $SE = 0.002$, 95% CI [-0.001, 0.01], $Z = 1.39$, $p = .165$), nor
 772 attachment avoidance ($IE = 0.004$, $SE = 0.003$, 95% CI [-0.001, 0.01], $Z = 1.49$, $p = .138$)
 773 exerted a serial indirect effect on the outcome variable by affecting national identification and
 774 willingness to conspire.

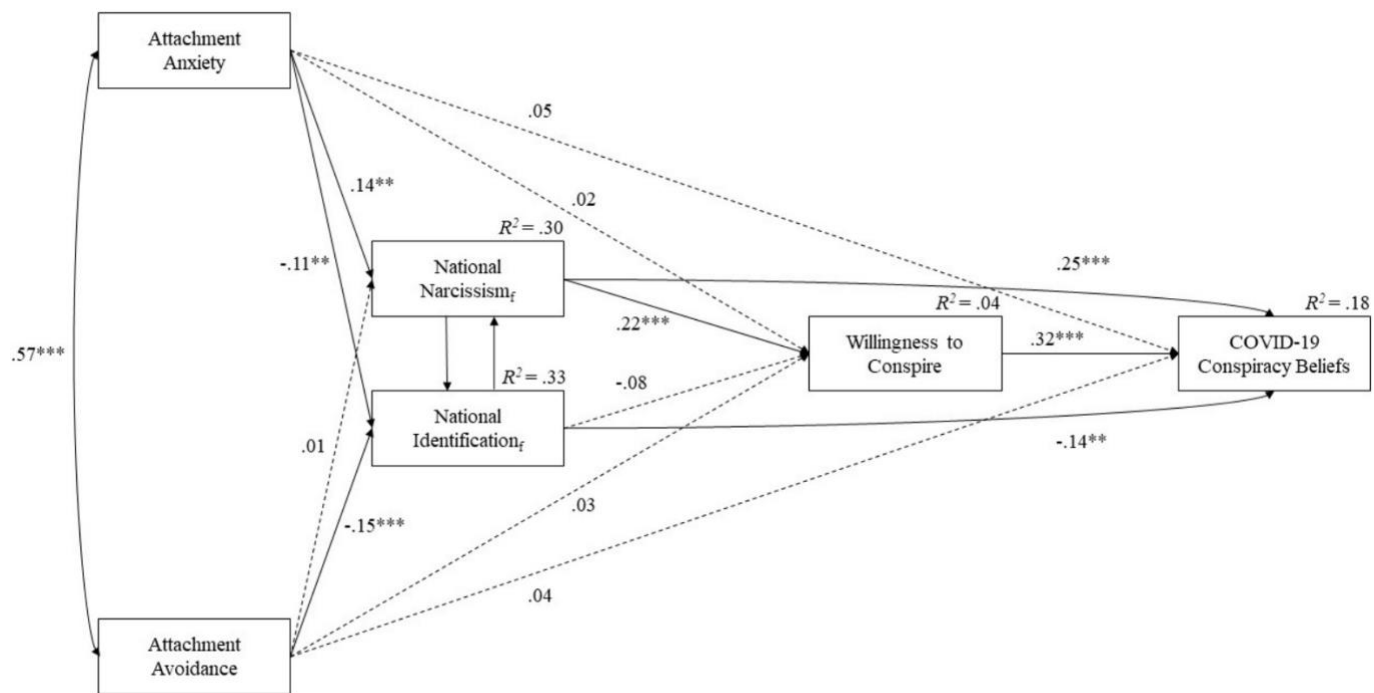
775 Using the robust estimation method did not alter our conclusions in a meaningful
 776 way. However, when the covariates were accounted for, the positive effect of attachment
 777 anxiety on COVID-19 conspiracy beliefs lost significance.

778 **Figure 4**

779 *Results of Path Models Examining the Indirect Effects of Attachment Anxiety and Attachment*
 780 *Avoidance on COVID-19 Conspiracy Beliefs via National Narcissism (When Controlled for*
 781 *National Identification) and National Identification (When Controlled for National*
 782 *Narcissism), and Willingness to Conspire, Study 4*

783

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784

785 *Note.* Standardized coefficients presented. National Narcissism_f = national narcissism
 786 accounting for national identification (a model including the path from national identification
 787 to national narcissism). National Identification_f = national identification accounting for
 788 national narcissism (a model including the path from National Narcissism to National
 789 Identification). Dashed arrows reflect nonsignificant effects ($p \geq .05$).

790 $***p < .001$.791 **Discussion**

792 The goal of Study 4 was to check whether the pattern of results obtained in previous
 793 studies would replicate in a different socio-political context (i.e., among British participants).
 794 In line with our assumptions, we found that anxious attachment was positively linked to
 795 increased national narcissism, which was further linked to increased willingness to conspire,
 796 which then predicted COVID-19 conspiracy beliefs. In Study 4, we also found that both
 797 attachment anxiety and avoidance were negatively related to national identification, which
 798 was then negatively linked to COVID-19 conspiracy beliefs. Overall, the results of Study 4

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799 showed that it seems at least plausible that individual insecurity may translate into collective
 800 defensiveness that further goes hand in hand with negative intragroup (i.e., willingness to
 801 conspire) and intergroup (i.e., conspiracy beliefs) phenomena.

802 **General Discussion**

803 Across a series of four studies, we have investigated the links between attachment
 804 anxiety and avoidance, and the two types of national in-group commitment: secure national
 805 commitment (i.e., national identification when controlled for national narcissism) and
 806 defensive national commitment (i.e., national narcissism when controlled for national
 807 identification). We found consistent evidence that national narcissism is positively related to
 808 attachment anxiety, whilst national identification is negatively related to avoidance, but also,
 809 in a more limited extent, to attachment anxiety (see Table 5 for the summary of key results).
 810 These relationships were especially pronounced once we accounted for the variance shared
 811 between national narcissism and national identification.

812 **Table 5**

813 *Summary of the Key Results*

Key results	
Study 1	Attachment anxiety (but not avoidance) was positively associated with national narcissism. Both attachment anxiety and avoidance were related to national identification negatively.
Study 2	Attachment anxiety and avoidance had positive effects on national narcissism and negative ones on national identification over time. National identification had negative effects on attachment anxiety and avoidance over time. National narcissism was a positive longitudinal predictor of attachment anxiety.
Study 3	Attachment anxiety was positively related to national narcissism. Attachment avoidance was negatively related to national identification. National narcissism served as a significant mediator of the relationship between attachment anxiety and a. COVID-19 conspiracy beliefs and b. nonnormative collective action.

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Study 4	Attachment anxiety was positively related to national narcissism, whereas both attachment avoidance and attachment anxiety were negatively related to national identification. There was a positive indirect effect of attachment anxiety on COVID-19 conspiracy beliefs via increased national narcissism and willingness to conspire (serial mediation). National identification mediated the effects of attachment anxiety and attachment avoidance on COVID-19 conspiracy beliefs.
Summary	We demonstrated that adult attachment is an essential factor in explaining group-level processes. Our studies suggest that people's attachment style may play an important role in how they identify with in-groups, which has consequences for both intra-group and inter-group relations.

814

815 **Theoretical Implications**

816 The present results provided systematic evidence that attachment anxiety is related to
817 national narcissism. This goes in line with previous theorizing (Tajfel & Turner, 1986),
818 suggesting that social identity may serve as a compensation for the frustration of different
819 psychological needs. In this case, individual-level anxiety translates into collective
820 defensiveness in the form of national narcissism, which is full of entitlement and concern
821 about the external recognition of the in-group in the eyes of others (Golec de Zavala et al.,
822 2013). Previous research showed that this type of defensive in-group commitment results in
823 maladaptive intra- (e.g., in-group disloyalty; Marchlewska et al., 2020) and intergroup
824 outcomes (e.g., out-group hostility; Marchlewska, Górska, et al., 2022). Our studies extend
825 this work by showing positive relationships between: attachment anxiety, defensive national
826 commitment, and, in turn, COVID-19 conspiracy beliefs, willingness to conspire, as well as
827 nonnormative collective action. These phenomena have negative impacts on society.
828 Conspiracy beliefs, of which adherence to COVID-19 conspiracies is but one example, stem
829 from willingness to conspire (Douglas & Sutton, 2011) and may have vast consequences both
830 for the in-group, as well as the out-groups (Douglas, 2021b). For example, in the context of
831 the pandemic, past research showed that higher endorsement of COVID-19 conspiracies was

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832 positively related to the refusal to vaccinate or wear masks to prevent the spread of the disease
833 (Cislak et al., 2021; Marchlewska, Hamer, et al., 2022), which may potentially have a
834 negative effect on the health of other in-group members. It was also related to blaming out-
835 groups for the pandemic's outbreak (Douglas, 2021a), which may lead to the reinforcement of
836 prejudice. On the other hand, nonnormative collective actions deriving from defensive
837 national commitment are probably directly aimed at out-groups and, therefore, endanger their
838 safety in the public sphere.

839 Moreover, we also found that lower attachment anxiety and avoidance were related to
840 secure national identification. This may suggest that the feelings of comfort with closeness
841 and confidence in depending on others (Bartholomew & Horowitz, 1991) is related to an
842 increased commitment to the national in-group in a more constructive way. This commitment
843 is based on an unpretentious investment in the in-group, which is independent of the
844 recognition of the group in the eyes of others (Golec de Zavala et al., 2013). This form of
845 national commitment does not lead to maladaptive intra- or intergroup outcomes (Cichocka &
846 Cislak, 2020).

847 At the same time, the results of the longitudinal Study 2 showed that the relationships
848 between attachment anxiety and avoidance, and both types of national commitment, were
849 reciprocal. First, we not only found that high attachment anxiety at Time 1 predicted greater
850 national narcissism at Time 2, but also that high national narcissism at Time 1 predicted
851 greater attachment anxiety at Time 2. These results suggest that attachment anxiety
852 strengthens defensive national commitment a few months later and that defensive national
853 commitment also strengthens attachment anxiety. Second, we also found that both attachment
854 anxiety and avoidance at Time 1 predicted lower secure national identification and that secure
855 national identification at Time 1 predicted lower attachment anxiety and avoidance at Time 2.

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856 Taken together, these findings point to a conclusion that psychological compensation
857 in the form of a defensive identity only seems to make things worse. Those who score high
858 (vs. low) on attachment anxiety are highly sensitive towards threats, obsessively search for
859 attention, support, and care from others (Cassidy & Kobak, 1988). This seems to evoke a kind
860 of a “vicious circle”, in which individuals with attachment anxiety commit to a particular
861 group in a narcissistic way, which strengthens their insecurity and defensiveness in the long-
862 term.

863 Furthermore, our research extends past findings on the link between attachment styles
864 and group-related processes. Our results align with previous studies, which showed a positive
865 relationship between attachment anxiety and nationalism (Marsh & Brown, 2011), which has
866 a lot in common with national narcissism (Cichocka & Cisłak, 2020). However, our findings
867 provide a more nuanced understanding of the role of attachment styles in shaping different
868 attitudes towards one’s own national in-group by simultaneously including insecure and
869 secure forms of national in-group commitment and demonstrating opposite effects of
870 attachment anxiety on these types of in-group commitment. Moreover, while previous studies
871 showed that secure attachment was linked to desirable group-related outcomes (positive
872 attitudes towards integration, out-group acceptance; Mikulincer & Shaver, 2001; Van
873 Oudenhoven & Hofstra, 2006), we identified the other side of the coin. More specifically, we
874 demonstrated that anxious attachment might have adverse social consequences (e.g.,
875 nonnormative collective action, conspiracy beliefs) and this relationship is mediated by
876 national narcissism.

877 Therefore, our research is the first to show that the compensatory mechanisms related
878 to high anxious attachment may only strengthen certain psychological problems. This,
879 however, is not the case among people low in attachment avoidance and anxiety (secure
880 attachment), who commit to their national group in a secure manner and, further, seem to

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881 become even more secure individually. Indeed, this finding echoes Mikulincer and Shaver's
882 (2020) "broaden and build" theory of secure attachment, which has not been demonstrated at
883 the national in-group level until now.

884 Limitations and Future Directions

885 In this research, we aimed to assess the relationships between attachment and
886 defensive *versus* secure national in-group commitment. We did so in a series of four
887 independent studies. However, research presented here is not without limitations.

888 First, within the current research, we used only one measure of attachment. The
889 reported results, therefore, might be somewhat specific for this measure. Future research
890 might consider replicating the results reported in the current paper using other validated
891 measures of attachment (e.g., Experiences in Close Relationships, Fraley et al., 2000).

892 Second, future research would also do well to develop and validate a questionnaire
893 that allows researchers to investigate and measure secure in-group commitment per se (i.e.,
894 without the necessity to control for national narcissism in the analysis). In this research, we
895 followed an established tradition of capturing security by controlling for defensiveness (e.g.,
896 Cichocka et al., 2018; Locke, 2009; Marchlewska & Cichocka, 2017). This approach, though
897 easy to implement, does not allow for an unbiased interpretation of the obtained results. In
898 fact, there are reasons to believe that secure national commitment can be more than just
899 national identification without the narcissistic component. Thus, even though similar
900 procedures were implemented in many different contexts (e.g., self-esteem; Paulhus et al.,
901 2004; Marchlewska, Castellanos, et al., 2019 or perfectionism; Stoeber, 2014), future studies
902 should focus on developing a tool that captures secure national identification more directly.

903 Third, important limitation of the current work is that the observed results were solely
904 based on self-reports. While this is a typical approach studying the correlates of national in-
905 group commitment (e.g., Cichocka et al., 2018), future research using a multi-methodological

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906 approach including observational data, informant-reports, and other sources of data are
907 desired in order to assess the degree of robustness of our findings.

908 Fourth, national narcissism is related to other forms of national commitment that have
909 been linked to maladaptive psychological states and traits, such as nationalism (understood as
910 national dominance; Kosterman & Feshbach, 1989), “blind” patriotism (understood as an
911 uncritical attachment to the nation; Schatz & Staub, 1997), or glorification (understood as
912 national superiority and respect for national symbols; Roccas et al., 2006). According to
913 Cichocka and Cislak (2020), national narcissism can be seen as an underlying construct that
914 could lead to both aggrandizing (captured by glorification) and dominating (captured by
915 nationalism) strategies in the struggle for group recognition (see also Gronfeldt et al., 2021).
916 Investigating the role of adult attachment styles in forming all these different forms of
917 national commitment would be an interesting avenue for future research.

918 Finally, the designs of our studies were correlational, thereby limiting causal
919 inferences. Future research would do well to manipulate attachment styles in experimental
920 studies (e.g., in the form of trainings or psychoeducation) or use three-wave longitudinal
921 research design to better verify causality (e.g., Górska, Marchlewska, et al., 2022). Future
922 studies might also consider assessments during longer periods of time, as attachment is
923 subject to change (Fraley, 2019), or alternatively, using the Experience Sampling
924 Methodology, focus on intensive assessments during short periods of time.

925 Conclusion

926 We believe that the role of attachment for national in-group commitment is an
927 important issue that may help explain some intra- and intergroup processes. We provide
928 empirical evidence that types of adult attachment are related differently to secure and to
929 defensive national commitment. Specifically, our results shed new light on that defensive
930 national commitment is primarily associated to heightened attachment anxiety, whereas

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931 secure national commitment is related negatively to both attachment anxiety and avoidance.

932 We found these relationships to be reciprocal. Summing up, the current research emphasizes

933 that the role of attachment could be an important factor explaining not only intraindividual,

934 but also group-level processes.

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ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

936 **References**

- 937 Adamczyk, K., & Pilarska, A. (2012). Attachment style, relationship status, gender and
938 relational competences among young adults. *Polish Psychological Bulletin*, 43(2), 59–69.
939 <https://doi.org/10.2478/v10059-012-0007-4>
- 940 Adorno, T., Frenkel-Brunswik, E., Levinson, D., & Sanford, N. (1950). *The authoritarian*
941 *personality*. Harper.
- 942 Agroskin, D., & Jonas, E. (2013). Controlling death by defending ingroups — Mediatonal
943 insights into terror management and control restoration. *Journal of Experimental Social*
944 *Psychology*, 49(6), 1144-1158. <https://doi.org/10.1016/j.jesp.2013.05.014>
- 945 Bartholomew, K., & Horowitz, L. M. (1991). Attachment styles among young adults: A test of
946 a four-category model. *Journal of Personality and Social Psychology*, 61(2), 226–244.
947 <https://doi.org/10.1037//0022-3514.61.2.226>
- 948 Biddlestone, M., Cichocka, A., Głowczewski, M., & Cislak, A. (2022). Their own worst
949 enemy? Collective narcissists are willing to conspire against their in-group. *British*
950 *Journal of Psychology*, 113(4), 894-916. <https://doi.org/10.1111/bjop.12569>
- 951 Cameron, J. E. (2004). A three-factor model of social identity. *Self and Identity*, 3(3), 239-262.
952 <https://doi.org/10.1080/13576500444000047>
- 953 Cassidy, J., & Kobak, R. R. (1988). Avoidance and its relationship with other defensive
954 processes. In J. Belsky & T. Nezworski (Eds.), *Clinical implications of attachment* (pp.
955 300–323). Erlbaum.
- 956 Castano, E., Yzerbyt, V., Paladino, M.-P., & Sacchi, S. (2002). I belong, therefore, I exist:
957 Ingroup identification, ingroup entitativity, and ingroup bias. *Personality and Social*
958 *Psychology Bulletin*, 28(2), 135–143. <https://doi.org/10.1177/0146167202282001>

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 959 Cichocka, A. (2016). Understanding defensive and secure in-group positivity: The role of
960 collective narcissism. *European Review of Social Psychology*, 27(1), 283–317.
961 <https://doi.org/10.1080/10463283.2016.1252530>
- 962 Cichocka, A., & Cislak, A. (2020). Nationalism as collective narcissism. *Current Opinion in*
963 *Behavioral Sciences*, 34, 69-74. <https://doi.org/10.1016/j.cobeha.2019.12.013>
- 964 Cichocka, A., Dhont, K., & Makwana, A. P. (2017). On self-love and outgroup hate: Opposite
965 effects of narcissism on prejudice via social dominance orientation and right-wing
966 authoritarianism. *European Journal of Personality*, 31(4), 366-384.
967 <https://doi.org/10.1002/per.2114>
- 968 Cichocka, A., Golec de Zavala, A., Marchlewska, M., Bilewicz, M., Jaworska, M., &
969 Olechowski, M. (2018). Personal control decreases narcissistic but increases non-
970 narcissistic in-group positivity. *Journal of Personality*, 86(3), 465–480.
971 <https://doi.org/10.1111/jopy.12328>
- 972 Cislak, A., Marchlewska, M., Wójcik, A., Śliwiński, K., Molenda, Z., Szczepańska, D. &
973 Cichocka, A. (2021). National narcissism and support for anti-vaccination policy: The
974 mediating role of conspiracy beliefs. *Group Processes & Intergroup Relations*, 24(5),
975 701–719. <https://doi.org/10.1177/1368430220959451>
- 976 Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed). Erlbaum.
- 977 Collins, N. L. (1996). Working models of attachment: Implications for explanation, emotion,
978 and behavior. *Journal of Personality and Social Psychology*, 71(4), 810–832.
979 <https://doi.org/10.1037/0022-3514.71.4.810>
- 980 Collins, N. L. (2008). *Adult Attachment Scale*.
981 https://labs.psych.ucsb.edu/collins/nancy/UCSB_Close_Relationships_Lab/Resources_files/Adult%20Attachment%20Scale.doc
982

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 983 Doolan, E. L., & Bryant, R. A. (2021). Modifying insecure attachment style with cognitive bias
984 modification. *Journal of Behavior Therapy and Experimental Psychiatry*, 73, Article
985 101664. <https://doi.org/10.1016/j.jbtep.2021.101664>
- 986 Douglas, K. M. (2021a). COVID-19 conspiracy theories. *Group Processes & Intergroup
987 Relations*, 24(2), 270–275. <https://doi.org/10.1177/1368430220982068>
- 988 Douglas, K. M. (2021b). Are conspiracy theories harmless? *The Spanish Journal of
989 Psychology*, 24, Article E13. <https://doi.org/10.1017/SJP.2021.10>
- 990 Douglas, K. M., & Sutton, R. M. (2008). The hidden impact of conspiracy theories: Perceived
991 and actual influence of theories surrounding the death of Princess Diana. *The Journal of
992 Social Psychology*, 148(2), 210-222. <https://doi.org/10.3200/SOCP.148.2.210-222>
- 993 Douglas, K. M., & Sutton, R. M. (2011). Does it take one to know one? Endorsement of
994 conspiracy theories is influenced by personal willingness to conspire. *British Journal of
995 Social Psychology*, 50(3), 544-552. <https://doi.org/10.1111/j.2044-8309.2010.02018.x>
- 996 Enders, C. K., & Bandalos, D. L. (2001). The relative performance of full information
997 maximum likelihood estimation for missing data in structural equation models. *Structural
998 Equation Modeling*, 8(3), 430–457. https://doi.org/10.1207/S15328007SEM0803_5
- 999 Fraley, R. C. (2019). Attachment in adulthood: Recent developments, emerging debates, and
1000 future directions. *Annual Review of Psychology*, 70, 401-422.
1001 <https://doi.org/10.1146/annurev-psych-010418-102813>
- 1002 Fraley, R. C., Waller, N. G., & Brennan, K. A. (2000). An item response theory analysis of
1003 self-report measures of adult attachment. *Journal of Personality and Social Psychology*,
1004 78(2), 350–365. <https://doi.org/10.1037/0022-3514.78.2.350>
- 1005 Fromm, E. (1973). *The anatomy of human destructiveness*. Holt, Rinehart & Winston.

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1006 Funke, F. (2005). The dimensionality of right-wing authoritarianism: Lessons from the
1007 dilemma between theory and measurement. *Political Psychology*, 26(2), 195-218.
1008 <https://doi.org/10.1111/j.1467-9221.2005.00415.x>
- 1009 Golec de Zavala, A. (2019). Collective narcissism and in-group satisfaction are associated with
1010 different emotional profiles and psychological wellbeing. *Frontiers in Psychology*, 10,
1011 Article 203. <https://doi.org/10.3389/fpsyg.2019.00203>
- 1012 Golec de Zavala, A., Cichocka, A., & Bilewicz, M. (2013). The paradox of in-group love:
1013 Differentiating collective narcissism advances understanding of the relationship between
1014 in-group and out-group attitudes. *Journal of Personality*, 81(1), 16-28.
1015 <https://doi.org/10.1111/j.1467-6494.2012.00779.x>
- 1016 Golec de Zavala, A., & Cichocka, A. (2012). Collective narcissism and anti-Semitism in
1017 Poland. *Group Processes & Intergroup Relations*, 15(2), 213–229.
1018 <https://doi.org/10.1177/1368430211420891>
- 1019 Golec de Zavala, A., Cichocka, A., Eidelson, R., & Jayawickreme, N. (2009). Collective
1020 narcissism and its social consequences. *Journal of Personality and Social Psychology*,
1021 97(6), 1074–1096. <https://doi.org/10.1037/a0016904>
- 1022 Golec de Zavala, A., Federico, C. M., Sedikides, C., Guerra, R., Lantos, D., Mroziński, B.,
1023 Cypryańska, M., & Baran, T. (2020). Low self-esteem predicts out-group derogation via
1024 collective narcissism, but this relationship is obscured by in-group satisfaction. *Journal of*
1025 *Personality and Social Psychology*, 119(3), 741-764.
1026 <http://dx.doi.org/10.1037/pspp0000260>
- 1027 Górska, P., & Bilewicz, M. (2021). *Opposing effects of narcissistic and secure in-group*
1028 *identification on nonnormative collective action* [Manuscript submitted for publication].
1029 Department of Psychology, University of Warsaw.

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1030 Górska, P., Marchlewska, M., Szczepańska, D., Molenda, Z., Michalski, P., & Furman, A.
1031 (2022). A vicious circle? Longitudinal relationships between different types of in-group
1032 commitment and COVID-19 conspiracy thinking. *The Journal of Social Psychology*.
1033 Advance online publication. <https://doi.org/10.1080/00224545.2022.2111250>
- 1034 Górska, P., Stefaniak, A., Malinowska, K., Lipowska, K., Marchlewska, M., Budziszewska,
1035 M., & Maciantowicz, O. (2020). Too great to act in solidarity: The negative relationship
1036 between collective narcissism and solidarity-based collective action. *European Journal of*
1037 *Social Psychology*, 50(3), 561-578. <https://doi.org/10.1002/ejsp.2638>
- 1038 Górska, P., Stefaniak, A., Marchlewska, M., Matera, J., Kocyba, P., Łukianow, M.,
1039 Malinowska, K., & Lipowska, K. (2022). Refugees unwelcome: Narcissistic and secure
1040 national commitment differentially predict collective action against immigrants and
1041 refugees. *International Journal of Intercultural Relations*, 86, 258-271.
1042 <https://doi.org/10.1016/j.ijintrel.2021.11.009>
- 1043 Green, R., & Douglas, K. M. (2018). Anxious attachment and belief in conspiracy theories.
1044 *Personality and Individual Differences*, 125, 30-37.
1045 <https://doi.org/10.1016/j.paid.2017.12.023>
- 1046 Gronfeldt, B., Cichočka, A., Marchlewska, M., & Cislak, A. (2021). Illiberal politics and
1047 group-based needs for recognition and dominance. In A. Sajó, R. Uitz, & S. Holmes
1048 (Eds.), *Routledge handbook of illiberalism* (pp. 655-673). Routledge.
1049 <https://doi.org/10.4324/9780367260569>
- 1050 Hofstra, J., van Oudenhoven, J. P., & Buunk, B. P. (2005). Attachment styles and majority
1051 members' attitudes towards adaptation strategies of immigrants. *International Journal of*
1052 *Intercultural Relations*, 29(5), 601-619. <https://doi.org/10.1016/j.ijintrel.2005.05.009>

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1053 Horvath, S., & Morf, C. C. (2009). Narcissistic defensiveness: Hypervigilance and avoidance
1054 of worthlessness. *Journal of Experimental Social Psychology*, 45(6), 1252-1258.
1055 <https://doi.org/10.1016/j.jesp.2009.07.011>
- 1056 Imhoff, R., Dieterle, L., & Lamberty, P. (2021). Resolving the puzzle of conspiracy worldview
1057 and political activism: Belief in secret plots decreases normative but increases
1058 nonnormative political engagement. *Social Psychological and Personality Science*, 12(1),
1059 71–79. <https://doi.org/10.1177/1948550619896491>
- 1060 Kernis, M. H. (2005). Measuring self-esteem in context: The importance of stability of self-
1061 esteem in psychological functioning. *Journal of Personality*, 73(6), 1569-1605.
1062 <https://doi.org/10.1111/j.1467-6494.2005.00359.x>
- 1063 Kossowska, M., Hanusz, K., & Trejtowicz, M. (2012). Skrócona wersja Skali Potrzeby
1064 Poznawczego Domknięcia: Dobór pozycji i walidacja skali [Short version of the Need for
1065 Cognitive Closure: Item selection and scale validation]. *Psychologia Społeczna*, 7, 89–99.
- 1066 Kosterman, R., & Feshbach, S. (1989). Toward a measure of patriotic and nationalistic
1067 attitudes. *Political Psychology*, 10(2), 257-274. <https://doi.org/10.2307/3791647>
- 1068 Kowalski, J., Marchlewska, M., Molenda, Z., Górską, P., & Gawęda, Ł. (2020). Adherence to
1069 safety and self-isolation guidelines, conspiracy and paranoia-like beliefs during COVID-
1070 19 pandemic in Poland - associations and moderators. *Psychiatry Research*, 294, Article
1071 113540. <https://doi.org/10.1016/j.psychres.2020.113540>
- 1072 Locke, K. D. (2009). Aggression, narcissism, self-esteem, and the attribution of desirable and
1073 humanizing traits to self versus others. *Journal of Research in Personality*, 43(1), 99–
1074 102. <https://doi.org/10.1016/j.jrp.2008.10.003>
- 1075 Łowicki, P., Marchlewska, M., Molenda, Z., Karakula, A., & Szczepańska, D. (2022). Does
1076 religion predict coronavirus conspiracy beliefs? Centrality of religiosity, religious

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1077 fundamentalism, and COVID-19 conspiracy beliefs. *Personality and Individual*
1078 *Differences, 187*, Article 111413. <https://doi.org/10.1016/j.paid.2021.111413>
- 1079 Marchlewska, M., & Cichocka, A. (2017). An autobiographical gateway: Narcissists avoid
1080 first-person visual perspective while retrieving self-threatening memories. *Journal of*
1081 *Experimental Social Psychology, 68*, 157-161. <https://doi.org/10.1016/j.jesp.2016.06.003>
- 1082 Marchlewska, M., Castellanos, K. A., Lewczuk, K., Kofta, M., & Cichocka, A. (2019). My way
1083 or the highway: High narcissism and low self-esteem predict decreased support for
1084 democracy. *British Journal of Social Psychology, 58*(3), 591-608.
1085 <https://doi.org/10.1111/bjso.12290>
- 1086 Marchlewska, M., Cichocka, A., Furman, A., & Cislak, A. (2022). Who respects the will of the
1087 people? Support for democracy is linked to high secure national identity but low national
1088 narcissism. *British Journal of Social Psychology, 61*(2), 599-621.
1089 <https://doi.org/10.1111/bjso.12499>
- 1090 Marchlewska, M., Cichocka, A., Jaworska, M., Golec de Zavala, A., & Bilewicz, M. (2020).
1091 Superficial ingroup love? Collective narcissism predicts ingroup image defense, outgroup
1092 prejudice, and lower ingroup loyalty. *The British Journal of Social Psychology, 59*(4),
1093 857–875. <https://doi.org/10.1111/bjso.12367>
- 1094 Marchlewska, M., Cichocka, A., Łozowski, F., Górka, P., & Winiewski, M. (2019). In search
1095 of an imaginary enemy: Catholic collective narcissism and the endorsement of gender
1096 conspiracy beliefs. *The Journal of Social Psychology, 159*(6), 766-779.
1097 <https://doi.org/10.1080/00224545.2019.1586637>
- 1098 Marchlewska, M., Górka, P., Molenda, Z., Lipowska, K., & Malinowska, M. (in press). The
1099 fear of confession? High Catholic collective narcissism and low secure identification with
1100 Catholics predict increased pedophilia myths acceptance *European Journal of Social*
1101 *Psychology*.

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1102 Marchlewska, M., Górski, P., Malinowska, K., & Kowalski, J. (2022). Threatened masculinity:
1103 Gender-related collective narcissism predicts prejudice toward gay and lesbian people
1104 among heterosexual men in Poland. *Journal of Homosexuality*, 69(7), 1222-1237.
1105 <https://doi.org/10.1080/00918369.2021.1907067>
- 1106 Marchlewska, M., Hamer, K., Baran, M., Górski, P., & Kaniasty, K. (2022). COVID-19: Why
1107 do people refuse vaccination? The role of social identities and conspiracy beliefs:
1108 Evidence from nationwide samples of Polish adults. *Vaccines*, 10(2), Article 268.
1109 <https://doi.org/10.3390/vaccines10020268>
- 1110 Marsh, T., & Brown, J. (2011). Homonegativity and its relationship to religiosity, nationalism
1111 and attachment style. *Journal of Religion and Health*, 50(3), 575-591.
1112 <https://doi.org/10.1007/s10943-009-9286-2>
- 1113 Michalski, P., Marchlewska, M., Furman, A., Szczepańska, D., Panayiotou, O., Molenda, Z., &
1114 Górski P. (2021). To advise and scrutinize the government? Two types of political
1115 knowledge, political trust and unconventional participation. *Current Psychology*.
1116 Advance online publication. <https://doi.org/10.1007/s12144-021-02561-2>
- 1117 Mikulincer, M., & Shaver, P. R. (2020). Enhancing the "broaden and build" cycle of attachment
1118 security in adulthood: From the laboratory to relational contexts and societal systems.
1119 *International Journal of Environmental Research and Public Health*, 17(6), Article 2054.
1120 <https://doi.org/10.3390/ijerph17062054>
- 1121 Mikulincer, M., & Shaver, P. R. (2001). Attachment theory and intergroup bias: Evidence that
1122 priming the secure base schema attenuates negative reactions to out-groups. *Journal of*
1123 *Personality and Social Psychology*, 81(1), 97–115. [https://doi.org/10.1037/0022-](https://doi.org/10.1037/0022-3514.81.1.97)
1124 [3514.81.1.97](https://doi.org/10.1037/0022-3514.81.1.97)

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1125 Mikulincer, M., & Shaver, P. R. (2003). The attachment behavioral system in adulthood:
1126 Activation, psychodynamics, and interpersonal processes. In M. P. Zanna (Ed.), *Advances*
1127 *in experimental social psychology* (pp. 53-152). Academic Press.
- 1128 Mikulincer, M., & Shaver, P. R. (2016). *Attachment in adulthood: Structure, dynamics, and*
1129 *change* (2nd ed.). Guilford Press.
- 1130 Milanov, M., Rubin, M., & Paolini, S. (2013). Adult attachment styles as predictors of different
1131 types of ingroup identification. *Bulgarian Journal of Psychology, 1-4*, 175-186.
- 1132 Molenda, Z., Marchlewska, M., & Rogoza, M. (in press). Nothing hurts like (in-group) love?
1133 National narcissism, conspiracy intentions, and non-prosocial managing emotions of
1134 others. *Personality and Individual Differences*.
- 1135 Mullin, B. A., & Hogg, M. A. (1998). Dimensions of subjective uncertainty in social
1136 identification and minimal intergroup discrimination. *British Journal of Social*
1137 *Psychology, 37*(3), 345-365. <https://doi.org/10.1111/j.2044-8309.1998.tb01176.x>
- 1138 Paulhus, D. L., Robins, R. W., Trzesniewski, K. H., & Tracy, J. L. (2004). Two replicable
1139 suppressor situations in personality research. *Multivariate Behavioral Research, 39*(2),
1140 303–328. https://doi.org/10.1207/s15327906mbr3902_7
- 1141 Peer, E., Brandimarte, L., Samat, S., & Acquisti, A. (2017). Beyond the Turk: Alternative
1142 platforms for crowdsourcing behavioral research. *Journal of Experimental Social*
1143 *Psychology, 70*, 153–163. <https://doi.org/10.1016/j.jesp.2017.01.006>.
- 1144 Roccas, S., Klar, Y., & Liviatan, I. (2006). The paradox of group-based guilt: Modes of
1145 national identification, conflict vehemence, and reactions to the in-group's moral
1146 violations. *Journal of Personality and Social Psychology, 91*(4), 698–711.
1147 <https://doi.org/10.1037/0022-3514.91.4.698>

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

- 1148 Rogoza M., Marchlewska, M., & Szczepańska, D. (2022). Why dark personalities participate in
1149 politics? *Personality and Individual Differences*, 186, Article 111319.
1150 <https://doi.org/10.1016/j.paid.2021.111319>
- 1151 Rom, E., & Mikulincer, M. (2003). Attachment theory and group processes: The association
1152 between attachment style and group-related representations, goals, memories, and
1153 functioning. *Journal of Personality and Social Psychology*, 84(6), 1220–1235.
1154 <https://doi.org/10.1037/0022-3514.84.6.1220>
- 1155 Rothí, D. M., Lyons, E., & Chrysochoou, X. (2005). National attachment and patriotism in a
1156 European nation: A British study. *Political Psychology*, 26(1), 135-155.
1157 <https://doi.org/10.1111/j.1467-9221.2005.00412.x>
- 1158 Schatz, R. T., & Staub, E. (1997). Manifestations of blind and constructive patriotism:
1159 Personality correlates and individual–group relations. In D. Bar-Tal & E. Staub (Eds.),
1160 *Patriotism: In the lives of individuals and nations* (pp. 229–245). Nelson-Hall Publishers.
- 1161 Selig, T., & Little, J. P. (2012). Autoregressive and cross-lagged panel analysis for longitudinal
1162 data. In B. Laursen, T. Little, & N. A. Card (Eds.), *Handbook of developmental research*
1163 *methods* (pp. 265–278). Guilford Press.
- 1164 Stoeber, J., Kobori, O., & Brown, A. (2014). Examining mutual suppression effects in the
1165 assessment of perfectionism cognitions: Evidence supporting multidimensional
1166 assessment. *Assessment*, 21(6), 647-660. <https://doi.org/10.1177/1073191114534884>
- 1167 Tajfel, H., & Turner, J. C. (1986). The social identity theory of intergroup behavior.
1168 *Psychology of Intergroup Relations*, 2, 7–24.
- 1169 Turner, J. (1982). Toward a cognitive redefinition of the social group. In H. Tajfel (Ed.), *Social*
1170 *identity and intergroup relations* (pp. 15-40). Cambridge University Press.
- 1171 Van Oudenhoven, J. P., & Hofstra, J. (2006). Personal reactions to ‘strange’ situations:
1172 Attachment styles and acculturation attitudes of immigrants and majority members.

ATTACHMENT AND NATIONAL IN-GROUP COMMITMENT

1173 *International Journal of Intercultural Relations*, 30(6), 783-798.

1174 <https://doi.org/10.1016/j.ijintrel.2006.05.005>