

Emotional Responses to Disturbing Political News: The Role of Personality*

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Abstract

Recent scholarship in political science identifies emotions as an important antecedent to political behavior. Existing work, however, has focused much more on the political *effects* of emotions than on their causes. Here, we begin to examine how personality moderates emotional responses to political events. We hypothesized that the personality trait *need for affect* (NFA) would moderate the emotions evoked by disturbing political news. Drawing data from a survey experiment conducted on a national sample, we find that individuals high in NFA have an especially vivid emotional response to disturbing news—a moderating relationship that has the potential to surpass those associated with symbolic attachments.

Keywords: Personality, need for affect, emotions

In recent years, political scientists have used insights from psychology in conjunction with new experimental tools to investigate how emotions guide political behavior. As a result, there is now a thriving literature focused on the effects of emotions in political contexts (e.g. Brader 2006; Gadarian and Albertson 2014; Marcus et al. 2000; Neuman, Marcus, Crigler, and MacKuen 2007; Redlawsk 2006; Ryan 2012; Valentino et al. 2009; Zeitzoff 2013). While the literature on the *effects* of emotions is now quite developed, scholars know less about the political *antecedents* of emotions: what circumstances cause an emotion to occur—or not. This deficit is an obstacle, because it limits what researchers can say about dynamic conceptions of politics—how emotions “ebb and flow as a function of changes in real-world conditions” (Nardulli and Kuklinski 2007, 331). Here, we begin to examine how personality traits moderate the emotions citizens experience when they read the news. We focus on

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one trait in particular: need for affect (NFA). Using a survey experiment conducted on a national sample, we find that citizens high in NFA have an especially vivid emotional experience when they read disturbing political news. The moderating relationship is large both substantively and in comparison to a number of symbolic attachments.

We begin by reviewing the literature that motivates our conjectures about NFA, before turning to our empirical test.

PERSONALITY, EMOTIONS, AND THE NEED FOR AFFECT

What literature there is on the antecedents to politically relevant emotions can be divided into two broad categories. First, there are studies that focus on the emotion *elicitor* (e.g. what kinds of events trigger anger versus fear).¹ Separate from these are studies that focus on individual traits that might moderate the emotional experience, even holding aspects of the trigger constant.² For instance, researchers have examined the moderating role of partisanship (Brader and Valentino 2007), political sophistication (Gadarian 2013), and race (Albertson and Gadarian 2013). Although there is a substantial literature in psychology finding processing styles to regulate the emotional experience (Bolger and Schilling 1991; John and Eng 2013; Matthews et al. 1998), and although personality has received renewed interest in political science (Gerber et al. 2010; 2012; Mondak 2010), there are few if any studies suited to test how personality characteristics moderate the experience of political emotions.

The large number of personality traits—there are potentially hundreds (John and Robbins 1993, for a discussion)—necessitates limiting the scope of inquiry. We focus on one personality trait that might be particularly useful in predicting which citizens are most likely to experience vivid emotions in response to political news: NFA. Following the insight (Cacioppo and Petty 1992) that individuals vary in the extent to which they enjoy effortful thinking (the *need for cognition* (NFC)), Maio & Esses developed an NFA scale that is theorized to capture “the general motivation of people to approach or avoid situations and activities that are emotion inducing for themselves and others” (Maio and Esses 2001, 585; see also Britt et al. 2009; Haddock et al. 2008). People high in the NFA trait enjoy experiencing emotions, think that emotions are useful in guiding judgments and behavior, and tend to seek out emotion-inducing experiences (Maio et al. 2004). The trait and its measurement have been validated in several ways. For instance, NFA has been shown to be distinct from other individual differences in cognitive style, such as NFC, need

¹For one example, Groenendyk, Brader, and Valentino (2011) conduct an experiment in which a threat (a virus) arises from either a natural mutation or unsafe research practices, and examine effects on emotional responses. See also Gadarian (2014) on the role of news coverage versus persuasive appeals.

²Of course, triggers and traits can interact, as our own results show.

to evaluate, need for closure, and need for structure (Maio and Esses 2001; Maio et al. 2004).

There are three reasons we think NFA is an auspicious starting point to investigate how personality characteristics moderate the emotions citizens feel as they experience the political world. First, we expect any effects we identify to be reasonably general. Individuals high in NFA might experience more intense emotional arousal when processing many different kinds of emotion-inducing messages.³ Second, given the close conceptual connection between NFA and emotions, we expect it to be a potent moderator of emotional arousal. It thus might point to a rough upper bound on the magnitude of the relationships that scholars are likely to identify by incorporating personality traits into their research. Third, studying NFA as an antecedent to political emotions complements work that has begun to show that NFA underpins the extent to which political attitudes carry an affective charge (Arceneaux and Vander Wielen 2013; 2014).⁴

Examining how NFA moderates emotional responses to political news can also address two open questions about the trait itself. First, as we note above, NFA is defined as a *motivation to seek out* situations that induce emotions. As such, the trait might predict arousal among people exposed to the same stimuli (if high-NFA people focus more intently on the messages, for instance). Or it might not (if its effects are limited to decisions about what to read and watch).⁵ Second, supposing that high-NFA individuals experience different arousal than low-NFA individuals, we can imagine three patterns that might characterize the differences. We present stylized depictions of each in Figure 1. First, high-NFA individuals might generally focus more on their emotions than their low-NFA counterparts, meaning they will experience greater arousal irrespective of what messages are being processed (panel a). Alternatively, high-NFA individuals might be indistinguishable from low-NFA individuals in the absence of an emotional stimulus (panels b and c). We find it plausible that high-NFA individuals would be especially sensitive to low-intensity messages, but that the gap between low and high-NFA individuals would narrow as the emotional content of the stimulus becomes more difficult to ignore (panel b). But it also seems plausible that the differences between personality types might persist even as message intensity increases (panel c).

³In contrast, the effects of other personality traits might be more context dependent. For instance, *openness to experience* (one of the Big Five traits) predicts an appetite for “experiences that will be cognitively engaging” (Mondak 2010, 50). As such, any moderation effects conditional on openness might further depend on the novelty (vs. familiarity) of a message.

⁴Specifically, we are able to directly test a mechanism—high emotional arousal in response to political messages—that might give rise to Arceneaux & Vander Wielen’s results.

⁵This distinction is subtle, but has potential political implications. If NFA governs exposure decisions, but not arousal conditional on exposure, then it will probably not play much of a role in predicting responses to news that completely saturates the media environment (e.g. a high-profile terrorist attack, such as 9/11).

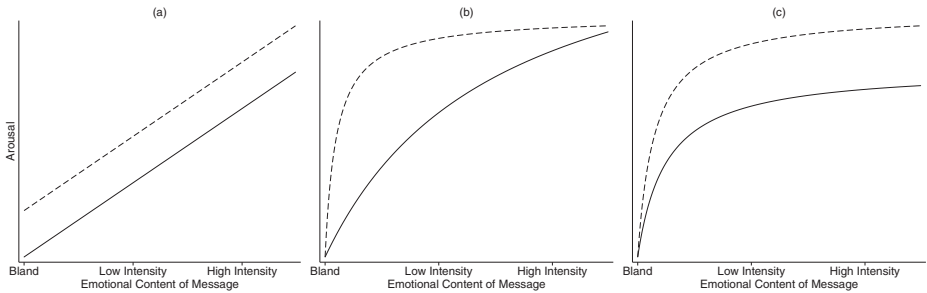


Figure 1

Hypothetical Models of Personality-Driven Emotional Responses

The figure shows hypothetical differences in arousal depending on whether an individual is high in need for affect (dash lines) or low in need for affect (solid lines).

RESEARCH DESIGN

Our analyses come from a randomized experiment conducted on a national sample ($N = 990$) of Americans collected by Survey Sampling International (SSI).⁶ SSI maintains a diverse national panel of research subjects through targeted recruitment in various online communities, and our sample compares favorably with a U.S. Census benchmark in several demographic dimensions (Supplementary Material, Section 1). The study was fielded in May of 2014.

Measures

Our instrument included a number of items to isolate the distinct role played by NFA. It began with a standard 7-point measure of party identification, which we folded at its midpoint to construct a measure of strength of party identification.⁷ We also measured liberal/conservative identification using a standard 7-point measure.

Following the partisan measure, there was a four-item battery measuring NFA. Given constraints on the length of an instrument we could field on a national sample, it was necessary to shorten the usual battery, which has twenty-six items. To do this, we chose the two naturally-coded and the two reverse-coded items with the highest factor loadings reported in Maio and Esses (2001, 591). The scale derived from these questions had acceptable reliability ($\alpha = 0.67$).

⁶This number refers to the number of respondents who started the survey instrument. SSI uses a nonprobability (opt-in) panel, which makes traditional response rates difficult or impossible to calculate. However, it is possible to calculate the participation rate—the proportion of invitees who participated in the study. For the current study, the participation rate was 16.8%.

⁷We report all question wordings in the Supplementary Material, Section 2.

We also included a pre-treatment measure of NFC. NFC is not our main theoretical focus, but NFC is sometimes presented as NFA's foil,⁸ since the two measures intuitively map onto a psychological distinction between cognitive vs. affective processes (Bargh and Chartrand 1999). To measure NFC, we selected two naturally-coded and two reverse-coded items from the short-form NFC scale (Cacioppo et al. 1996, 253). Although we used these standard and popular items, the reliability for our four-item battery was disappointing ($\alpha = 0.29$). We conducted additional analyses to address this issue.⁹

After our experimental treatment (described below), subjects answered a standard (American National Election Study) question tapping overall attention to politics. We included this item to address the concern that the role of NFA might be confounded with this more familiar individual-level trait. We also asked subjects to report their gender, based on the idea that males and females might have different emotional responses to political events.

Experiment

In the middle of the instrument, subjects were asked to read a recent news story and answer some questions about it. They were randomly assigned to one of four conditions. The Control condition described a news event we selected for being bland with respect to emotional content. (It described the use of sonar to locate a steamship that sank in San Francisco Bay in 1888.)

There were three different treatment stories, all of which were constructed to be of nearly identical length to the Control story. The stories were designed to present the same substantive information, but in increasingly disturbing ways. All three focused on the deaths of American troops at the hands of terrorists in Afghanistan. (We thought a scenario focused on foreign affairs provided an opportunity to manipulate the intensity of political news while also downplaying a possibly confounding role of partisan considerations.) The least disturbing condition, which we label Deaths, described a bomb that exploded in a bazaar in Kabul, killing eleven American troops who were present. The more graphic Vivid condition described the same deaths, but small changes were made to make the description more disturbing. For instance, the headline changed from "Explosive Device Kills 11 American Troops

⁸By "foil," we mean that the two are conceptually related, not that they are antithetical to each other. In fact, previous work finds them to be moderately correlated (Maio and Esses 2001, 595), a result we replicate here. (The correlation in our sample is 0.29.)

⁹Secondary analyses found that the low reliability is localized in the two reverse-coded items we included. Viewed alone, the naturally-coded NFC items have much higher reliability ($\alpha = 0.70$). Where NFC is included in the analyses we present below, it is the full four-item battery that we planned to use *ex ante*. However, as a check on whether our results depend on poor measurement of NFC the Supplementary Material (Section 6) replicates the relevant analyses, substituting the more reliable two-item version of the scale. The Supplementary Material (Section 7) also includes a Bayesian approach in which uncertainty in personality factor scores is propagated through our linear model (cf. Arceneaux and Vander Wielen 2013). Our results are consistent across these additional analyses.

in New Attack” to “Explosive Device Kills 11 American Troops in Bloody Attack,” and the text included disturbing descriptions (“workers were summoned to clear smoldering wreckage, blood, and body parts”). The Photo condition had identical text to the Vivid condition, but also included a graphic photo of blood on a city street.¹⁰

After subjects read a news story, they were asked to report, using a grid, the extent to which the story made them feel disgusted, sad, angry, outraged, anxious, frustrated, afraid, and proud, an array that was designed to capture differences in distinct emotions of the same valence (e.g. fear as distinct from sadness). The response options ranged from “Not at all” to “Extremely.”

Separate from these emotions, we also sought to measure the objective intensity of the emotional content in the stories (a manipulation check). To do this, we asked subjects to think about the article they read and report “how graphic (as in vivid, powerful) do you remember it being?” The response options for this question ranged from “Not graphic at all” to “Extremely graphic.”

RESULTS

As we report in the Supplementary Material (Section 4), our instrumentation passes the manipulation check. Conditions are ranked in the expected order in terms of graphicness, and all differences statistically significant. For our main analysis, we estimate (OLS) each emotion experienced as a function of the treatment condition, individual-level traits (strength of party identification, ideology, NFA, NFC, attention to politics, and gender), and all condition \times trait interactions. [Figure 2](#) conveys the main results as concern NFA by showing the predicted values for each treatment condition, at high and low values of NFA, with other measures held at their means.¹¹

There is evidence that individuals high in NFA process the news differently than individuals low in NFA. Controlling for other traits, high-NFA respondents exhibit more reactivity to the disturbing news stories. This result manifests as separation between the solid and dashed lines within the Deaths, Vivid, and Photo conditions. (It exists, to varying degrees, for all emotions except Afraid.)

[Figure 2](#) is diagnostic of the possibilities outlined in [Figure 1](#). Examining the Control condition, for all but two emotions (Sad and Proud, the latter of which we discuss in more detail below), high-NFA individuals report lower arousal than low-NFA individuals. These results are at odds with the possibility shown in [Figure 1](#),

¹⁰All stimuli are included in the Supplementary Material (Section 3).

¹¹Scaled 0–1, the distribution of NFA scores is offset to the right of the midpoint ($M = 0.67$, $SD = 0.18$). We choose low and high values of NFA that capture the middle 90% of the observed distribution (0.44 and 0.94).

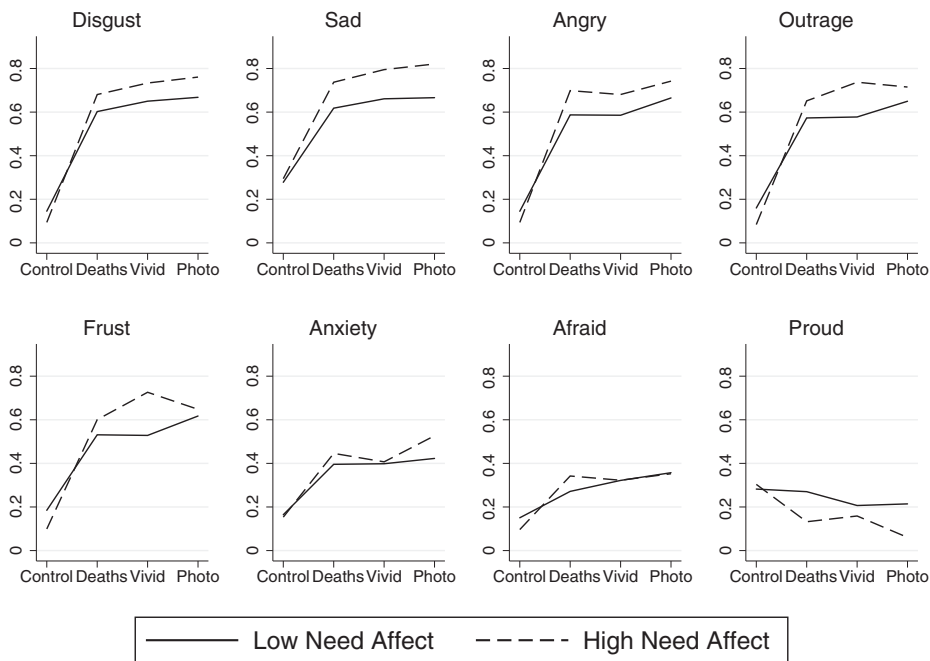


Figure 2
Experiment Results

The figure shows predicted values of each emotion, depending on the random assignment, for high and low values of need for affect. The underlying model is described in the text.

panel (a). Also, there is little evidence that the gap between high-NFA and low-NFA individuals narrows as the message becomes more disturbing (as in Figure 1, panel b). Instead, our results most closely match the pattern depicted in panel (c) of Figure 1.

In the Supplementary Material (Section 5), we present analyses that elaborate on the observed patterns. First, we assess whether the greater reactivity of high-NFA to the three disturbing news stories is attributable to chance. It is not. In both sparse and rich regression models specified to examine Disturbing News \times NFA interactions, NFA significantly ($p < 0.05$, two-tailed) moderates treatment effects for six of the eight emotions we examine.¹² We also consider the *magnitude* of the Disturbing News \times NFA interactions. They are substantively large, suggesting that two individuals at opposite ends of the NFA scale would differ by approximately one-quarter of the theoretical range of each emotion scale (though the exact magnitude varies). In contrast, the symbolic and other individual-level traits exhibit smaller and less stable interactions.¹³

¹²The two exceptions are for fear and anxiety, which we discuss more below.

¹³The other notably stable set of interactions suggests that women experience more intense emotions than men, though these interactions are only about one-third the magnitude of those for NFA.

Two emotions—Afraid and Anxiety—were significantly affected by the treatment, but exhibit insignificant (if directionally consistent) interactions with NFA. This result reminds us of past work emphasizing the different roles played by specific emotions (e.g. Smith and Ellsworth 1985). The lack of statistically significant interactions here might not be an aberration. Instead, it might reflect the distinct functional role of fear and anxiety as “avoidance” emotions (Huddy et al. 2007, for one discussion). Perhaps because these emotions are more primitive, their activation is less dependent on personality traits, and more species-typical.

We also wish to remark on the results for Proud. For this emotion—the only positive-valence emotion we examine—the overall pattern is a mirror image of the negative-valence emotions. Substantively, it means that reading disturbing political news dampened feelings of pride more for high-NFA subjects than low-NFA subjects. This result suggests that the NFA measure predicts emotional *responsiveness*—including dampening from a moderate baseline—and not strictly emotional *increases*.

DISCUSSION AND CONCLUSION

The idea that citizens’ personality traits make them more or less reactive to emotional political messages has a firm grounding in psychology. Drawing on this notion, we find that the personality trait NFA predicts the emotions citizens experience in response to disturbing political news. They are more likely to have negative emotions—disgust, anger, sadness—animated, and they are more likely to have feelings of pride become dampened.

We think the results above demonstrate promise in investigating how individual-level processing styles matter for politics. As we note, the moderation effects we identify are large—larger than those generated by familiar traits such as partisanship, ideology, and gender. We acknowledge that there is a limitation here: our experiment was not designed to generate a schism along these other dimensions. (A study that manipulated whether a message came from a Republican or a Democrat might well generate more impressive difference along the partisan division.) But this limitation does not mean that our study was unrealistic. Many of the political messages citizens receive—updated economic figures, the occurrence of natural disasters, reports on the success of foreign interventions—are a step removed from partisan concerns. And yet the way citizens respond to these events would have partisan implications. With respect to our finding, the significant correlation between NFA and Democratic Party identification ($r = 0.09$, $p < 0.01$ in our data) might imply that the passions of those on the political left are somewhat easier to foment and is consistent with the idea that conservative ideology is associated with affect-avoidance (cf. Leone and Chirumbolo 2008). Relatedly, strategic political

actors might find it behooves them to adopt more of a hot or cool messaging style, depending on the traits typical of their intended audience.¹⁴

One significant limitation of the results we present here is that they focus on a foreign policy news event. This focus was a design choice we made to situate our experiment in a context where individual differences beyond our scope (e.g. partisanship) would be less likely to dominate responses. Still, one promising avenue for future work is more systematically to examine the interplay between personality and partisan attachments as predictive of emotions—including in response to news with clearer partisan overtones.

Finally, we think the results herein point to promise in studies that examine the emotionality of political messages. Within psychology, researchers have examined the effect of strong (as in logical and well thought out) versus weak arguments, including with attention to how processing styles moderate responses (Cacioppo et al. 1996; Petty and Cacioppo 1986). Within political science, too, there is much research on the substantive information citizens receive. (As we think of it, a vast literature on framing effects focuses mostly on substantive information.) In this work, the emphasis is on higher-order cognition. To focus on the emotional content of a message, as we do here, provides a natural counterpart.

It is clear that emotions matter in politics, and political scientists have only begun to untangle the personal and situational factors that interact to foment emotional responses among the public. Taking account of personality characteristics is a promising step in service of that task.

SUPPLEMENTARY MATERIAL

To view supplementary material for this article, please visit <http://dx.doi.org/10.1017/XPS.2015.22>.

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¹⁴See Brader (2006, 67–68) for a discussion of the new significance of targeted political advertising.

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