

Taking Fact-checks Literally But Not Seriously? The Effects of Journalistic Fact-checking on Factual Beliefs and Candidate Favorability*

Forthcoming at Political Behavior

Brendan Nyhan[†] University of Michigan

Jason Reifler[§] University of Exeter Ethan Porter[‡] George Washington University

Thomas J. Wood[¶] The Ohio State University

Abstract

Are citizens willing to accept journalistic fact-checks of misleading claims from candidates they support and to update their attitudes about those candidates? Previous studies have reached conflicting conclusions about the effects of exposure to counterattitudinal information. As fact-checking has become more prominent, it is therefore worth examining how respondents respond to fact-checks of politicians — a question with important implications for understanding the effects of this journalistic format on elections. We present results to two experiments conducted during the 2016 campaign that test the effects of exposure to realistic journalistic fact-checks of claims made by Donald Trump during his convention speech and a general election debate. These messages improved the accuracy of respondents' factual beliefs, even among his supporters, but had no measurable effect on attitudes toward Trump. These results suggest that journalistic fact-checks can reduce misperceptions but often have minimal effects on candidate evaluations or vote choice.

^{*}We thank Kim Gross, John Pfaff, and D.J. Flynn for comments and Kyle Dropp for fielding study 1. This research received funding support from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation program (grant agreement No 682758). We also received support from the School of Media and Public Affairs at George Washington University. All errors are our own.

[†]Professor, Ford School of Public Policy; bnyhan@umich.edu

[‡]Assistant Professor, School of Media and Public Affairs; evporter@gwu.edu

[§]Professor, Department of Politics; J.Reifler@exeter.ac.uk

[¶]Assistant Professor, Department of Political Science; wood.1080@osu.edu

Journalistic fact-checking is an important new form of political news coverage (e.g., Spivak 2011; Graves 2016). However, little is known about its effects on citizens. Do they accept fact-checks that conflict with their political affiliations or shrug off those that contradict the claims of their preferred candidates? These questions have important implications for debates over citizen competence and the quality of governance in democracies (e.g., Hochschild and Einstein 2015; Jamieson 2015).

Concerns about people's willingness to accept unwelcome factual information like counter-attitudinal fact-checks have become so widespread that Oxford Dictionaries named *post-truth* the word of the year after the 2016 U.S. elections (BBC 2016). These concerns are well-justified. Some research indicates, for instance, that people can be highly resistant to journalistic fact-checks. Nyhan and Reifler (2010) find that corrective information in mock news articles frequently fails to reduce salient misperceptions and can even increase the prevalence of misperceptions among ideologically vulnerable groups compared to those who read an article with no correction — a "backfire effect." Other studies using relatively balanced formats have also found stiff resistance to uncongenial journalistic fact-checks (e.g., Nyhan, Reifler, and Ubel 2013; Garrett, Nisbet, and Lynch 2013; Jarman 2016). Citizens may be especially resistant to unwelcome fact-checks during campaigns, which frequently stimulate motivated reasoning (e.g., Lenz 2012).

By contrast, other studies find that fact-checking and other types of factual information can partly overcome directionally motivated reasoning and reduce, or "debunk," misperceptions (e.g., Weeks 2015; Nyhan and Reifler N.d.; Wood and Porter 2018; Chan et al. 2017). Notably, Wood and Porter (2018) examine 52 issue areas and observe no evidence of backfire effects. They do, however, find widespread evidence of motivated reasoning for approximately 80% of issues tested, responsiveness to corrective information varied by ideology (unlike Nyhan and Reifler N.d.).

We thus confront conflicting expectations about how people might respond to journal-

istic fact-checks during a general election campaign. Citizens may resist fact-checks that conflict with their partisan or ideological commitments and maintain (or even strengthen) their misperceptions. Alternately, people might accept journalistic fact-checks and update their beliefs to be at least somewhat more accurate.

We present results of two studies conducted during the 2016 U.S. presidential campaign that help illuminate this debate. Both studies examine actual misstatements that were made by candidates and their proxies and fact-checked by the media during the campaign — a time when partisan commitments are activated and the influence of partisan leaders is likely to be especially strong (e.g., Zaller 1992; Lenz 2012). Specifically, Study 1 is a preregistered survey experiment that evaluates the effects of a journalistic fact-check of misleading claims about crime made by Donald Trump at the GOP convention. To increase the realism of the study's evaluation of the effects of journalistic fact-checking in a campaign, Study 1 also includes experimental conditions in which a political elite attempts to denigrate and undermine the fact-check in question. Study 2 tests the effect of fact-checking a claim Trump made about unemployment during the first presidential debate among subjects experimentally induced to have watched the debate.

The design of these studies was intended to address two potential explanations for conflicting findings in the literature. In many cases, respondents in survey experiments may lack motivation to engage in effortful resistance to unwelcome factual information about relatively obscure topics or lack sufficient context to form counter-arguments. The lack of such motivations or context could explain the null or mixed results described above.

To address these concerns, we administered both studies at the height of a presidential general election campaign and designed them to maximize partisan directional motivations. In Study 1, we tested corrections of a presidential candidate's convention acceptance speech shortly after it was delivered; in study 2, we tested corrections of a candidate on the night of a presidential debate among a sample that was encouraged to watch the debate. In addition, while many facts are not the subject of political controversy, we tested fact-checks of claims that one candidate (Trump) used to criticize the other (Clinton), a context in which directionally motivated reasoning may be common.

Second, given that counter-arguing of unwelcome political information may be greater when relevant considerations are available, the first experiment experimentally manipulates the availability of messages denigrating the fact-check. In this study, we randomly paired a fact-check of a Trump statement with a statement by Trump campaign chairman Paul Manafort denying the correction and provided an additional Manafort statement ascribing a political motivation to the FBI, the source of the data in the fact-check. These messages should reduce the cognitive demands of counter-argument for low-information respondents and provide additional considerations upon which high-information Trump supporters can draw, increasing the realism of the information environment in which the fact-check is delivered and the likelihood of observing motivated resistance.

The design of these studies also allows us to investigate other important theoretical questions about the effects of fact-checking. First, we consider whether people are willing to not only revise their factual beliefs in response to a fact-check but to change their attitudes toward the candidate who has made a claim that has been fact-checked — an effect that would likely increase the reputational threat that fact-checking poses to politicians (see, e.g., Nyhan and Reifler 2015).¹ In addition, our first study tests whether people are willing to accept attitude-inconsistent information but instead change their *interpretations* of that information in a directionally motivated manner. For instance, Gaines et al. (2007) find that Democrats and Republicans updated their beliefs about the Iraq war relatively accurately over time; it was *interpretations* of those facts that diverged along partisan lines. Khanna and Sood (2018) similarly find that incentivized respondents provide more correct answers but perceived greater unfairness in the study when doing so.

Our results indicate that exposure to fact-checks reduced misperceptions among supporters of both major party presidential candidates but did not affect attitudes toward those candidates. In Study 1, exposure to fact-checking reduced misperceptions about crime rates even when respondents were provided a message by a Trump staffer disparaging the fact-check. Similarly, providing a fact-check of Trump just after a debate in Study 2 reduced misperceptions about unemployment in Michigan and Ohio, even among Trump supporters. In short, journalistic fact-checks can overcome directionally motivated reasoning and bring people's beliefs more in line with the facts *even* when the counter-attitudinal information is disparaged by a co-partisan. However, neither Clinton nor Trump supporters changed their attitudes towards either candidate after receiving fact-checks, suggesting that voters' preferences during a presidential election are not contingent on their percep-

¹Wintersieck (2017) is a notable exception. There are crucial differences between our study and hers, however. First, whereas Wintersieck looks at candidates deemed "honest" by fact-checkers, our studies examine statements flagged by fact-checkers for being false. Second, while Wintersieck focuses on a statewide election and recruits student subjects at a university, we enroll broader pools of participants in two experiments about a national election. This sampling distinction is particularly relevant here given that students might be more disposed to engage in the effortful cognition required to counterargue unwelcome information such as fact-checks (Krupnikov and Levine 2014).

tions of the factual accuracy of the candidates. In other words, factual corrections can achieve the limited objective of creating a more informed citizenry but struggle to change citizens' minds about whom to support.

Theory and hypotheses

Our theoretical approach builds on research suggests that people have competing goals in information processing (e.g., Kunda 1990; Molden and Higgins 2005). When people have stronger accuracy goals (e.g., they are provided a reward for each correct answer as in Hill 2017), respondents will process information more dispassionately and seek to maximize the accuracy of their beliefs. When directional motivations are more salient (e.g., party identity or a preferred candidate), respondents will instead tend to process information in a manner that is consistent with that preference rather than maximizing accuracy or considering information in a dispassionate manner (Taber and Lodge 2006; Bolsen, Druckman, and Cook 2014).

These findings suggest that directionally motivated reasoning may be an especially salient factor when people process factual information about controversial political issues in a highly partisan context such as a presidential election campaign. As discussed above, however, researchers have reached mixed conclusions about the extent to which directionally motivated reasoning affects belief updating in response to fact-checking in such contexts (e.g., Nyhan and Reifler 2010; Nyhan, Reifler, and Ubel 2013; Garrett, Nisbet, and Lynch 2013 versus Weeks 2015; Nyhan and Reifler N.d.; Wood and Porter 2018; Chan et al. 2017; Porter and Kirby 2018). Other research suggests that directional motivations may have greater influence on *interpretations* of contested facts (Gaines et al. 2007) than on factual beliefs themselves; we also consider this possibility.

To adjudicate among these claims, we test three preregistered hypotheses based on

the empirical literature and theoretical considerations discussed above.² In each case, we determine whether information is pro- or counter-attitudinal by whether respondents indicate supporting Trump or Hillary Clinton on a pre-treatment vote choice measure.

First, we propose to test whether fact-checking is ineffective at increasing the accuracy of factual beliefs among people for whom it is counter-attitudinal (H1; see Nyhan and Reifler 2010) or whether fact-checks increase belief accuracy but acceptance is greater among those for whom the information is pro-attitudinal (H2; see Wood and Porter 2018)³

- H1 (motivated resistance): Respondents will resist unwelcome facts about controversial issues. As a result, people exposed to journalistic fact-checks that are counter-attitudinal will not come to hold more accurate views. In some cases, their views could even become more inaccurate. (Evaluated in studies 1 and 2.)
- H2 (differential acceptance): Respondents will accept journalistic fact-checks that are counter-attitudinal and update their beliefs to become more accurate, though the extent to which they update their beliefs may vary based on their prior attitude. (Evaluated in studies 1 and 2.)

²Our preregistration for Study 1 documents our hypotheses and analysis plan (URL omitted for peer review). Unless otherwise noted, all Study 1 analyses are consistent with this document. Study 2 was conducted too rapidly to be preregistered (it was fielded immediately after the debate) but our analysis follows Study 1 to the greatest extent possible.

³As discussed above, previous findings are mixed on both hypotheses. For H1, see Nyhan and Reifler (2010) (backfire on two of five studies) versus Wood and Porter (2018) (no cases of backfire). For H2, compare Wood and Porter (2018), which finds a consistent pattern of ideological differentials in belief updating, with Nyhan and Reifler (N.d.), which finds no evidence of differential acceptance when fact-checks are pro-attitudinal. We also consider the effects of fact-checks on "interpretations" of factual claims. We define the term consistent with Gaines et al. (2007) who use it to include evaluations ("the crime rate is high"), explanations ("crime has increased because of a decline in moral values"), and inferences ("Obama's acceptance of this crime rate reveals indifference to our plight"). In this context, respondents may be willing to accept a fact-check which contradicts a favored politician but form an attitude-consistent interpretation of the information that they have accepted. For instance, if conservative respondents are asked to accept a contradiction of Trump's claim about increase in violent crime, they might ascribe the decline in crime to a factor that is consistent with their beliefs (e.g., tougher policing and longer sentences). We therefore propose to test whether interpretations of factual claims are formed and updated in a directionally motivated manner (H3; see Gaines et al. 2007):

H3 (attitude-consistent interpretation): *Respondents will accept journalistic fact-checks that are counter-attitudinal, but interpret them in an attitude-consistent manner.* (Evaluated in study 1 only.)

Finally, as noted above, we also evaluate a key research question — will people not only revise their factual beliefs, but alter their attitudes toward a candidate who has made a false or unsupported claim? We therefore also measure attitudes toward the candidate, including vote preference.⁴ The voluminous literature on candidate evaluation and vote choice in a presidential election provides unclear expectations. For instance, Funk (1999) finds that perceived traits such as honesty condition overall evaluation of candidates in the expected direction — candidates who are perceived as having integrity are more warmly regarded. However, Rahn et al. (1990) and Pierce (1993) find no relationship between perceived traits and vote choice even among sophisticated participants who are thought to

⁴Findings for two other preregistered research questions are described below and in the online appendix.

be capable of connecting potentially distal considerations. Accordingly, we have unclear expectations for the effect of fact-check exposure on subsequent candidate evaluations.

Stimuli

To maximize the external validity of our experiments, we adopted actual candidate statements from the 2016 presidential election. In our experiments, we focus on misleading claims made by Donald Trump in two high-profile candidate appearances — a suggestion of dramatically rising crime in his nomination acceptance speech (study 1) and a claim about the loss of manufacturing jobs during one of the presidential debates (study 2). Both claims were fact-checked by journalistic outlets at the time. The treatments we use in the studies aim to match the fact checks published for corresponding misstatements.⁵

For instance, our fact-check of Trump's convention statements about the prevalence of violent crime in Study 1 is very similar to the approach used by journalistic fact checkers. Here is the Associated Press fact-check of the crime claims Trump made in his convention speech (Sullivan and Day 2016):

THE FACTS: Violent crime has dropped dramatically since the early 1990s. According to FBI data, the national violent crime rate last peaked in 1991 at 758 reported violent crimes per 100,000 people. In 2014, the latest year for which full data is available, the rate was 366 per 100,000 people.

Our fact-check for the same issue in Study 1 is very similar:

⁵As we describe below, we also seek to maximize the realism of the treatments we use to test the effects of elite messages denigrating a fact-check. Study 1 tests the effects of exposure to actual statements made by Paul Manafort, Trump's campaign chairman at the time, challenging the fact-checking of Trump's convention speech.

According to FBI's Bureau of Justice Statistics, the violent crime rate has fallen dramatically and consistently over time. According to their estimates, the homicide rate in the U.S. in 2015 was half that recorded in 1991.

Study 2 considers the effect of fact-checking Trump's claims about job loss in Michigan and Ohio during the first presidential debate. *Politico*'s "wrongometer" wrote the following in response to that claim:

In fact, the state's unemployment rate has declined in recent years, according to the Bureau of Labor Statistics. That figure now stands around 4.5 percent, down from a 14.9 percent unemployment rate in June 2009 (Politico 2016).

Similarly, the *New York Times* wrote the following about Trump's claim:

Ohio and Michigan have, indeed, suffered major manufacturing job losses over the past generation. But in the past year, Ohio has gained 78,300 jobs, and Michigan has gained 75,800 jobs. In August, the unemployment rate was 4.9 percent in Michigan and 4.7 percent in Ohio, both in line with the national rate (New York Times 2016).

Our fact-check for this same issue (described further below) reads as follows:

In fact, according to the Bureau of Labor Statistics, unemployment has fallen in both Michigan and Ohio. Both states each saw 70,000 new jobs over the last year.

We believe our treatments are faithful representations of the type of journalistic factchecking that is now widely disseminated by the media. In other words, our experiment is not a test of authoritative and logically infallible attempts to debunk false claims. It is instead an analysis of how journalistic fact-checks affect mass beliefs and attitudes.⁶

Study 1: Crime perceptions

Study 1 tested the effects of journalistic fact-checks about changes in levels of crime over time. Respondents were randomly assigned to one of five conditions. In a control condition, respondents read an article without any political content. Participants in the treatment conditions read a mock news article featuring misleading claims by Donald Trump about crime rates based on an actual article that originally appeared on CNN.com. In one treatment condition, participants read an article that omits any corrective information, allowing us to test the effect of exposure to a candidate's statement alone. Others were assigned to read versions of the article that include neutral corrective information in the style of journalistic fact-checking, allowing us to test its effects versus a no-correction version of the

⁶It is important to note that journalistic fact-checks do not always logically contradict a speaker (e.g., Marietta and Bowser 2015; Uscinski and Butler 2013). Fact-checkers often seek instead to address possible inferences that listeners might draw from a candidate's statement. For instance, Trump's nomination speech described an "epidemic" of violent crime. He did not directly state that crime has increased, but a listener might infer as much (indeed, Trump made clear statements about increasing crime rates at other times). Like other journalistic fact-checks, our treatment thus cites FBI data on the long-term decline in violent crime. Similarly, Trump's debate statement emphasized factory jobs leaving Ohio and Michigan. While he did not directly say that employment in Michigan and Ohio is suffering because of trade policy, he implied that widespread job loss was taking place. Consequently, our fact-check, like several in the media, provided data on changes in jobs and unemployment in those states.

article as well as the control condition. One condition tested the fact-check alone, while two other conditions tested whether elite political actors can cultivate resistance to factual information. In these conditions, the fact-check was followed by a statement from a Trump surrogate disparaging the validity of the information or a statement by the surrogate disparaging the validity of the information and attributing a political motive to the source of the information.

Experimental design and instrument

After a series of demographic and attitudinal questions, participants were assigned to one of five conditions.⁷ The treatments were based on actual news events during the 2016 Republican National Convention. In his speech, Trump described an America ridden by increasing crime (uncorrected claim). As the media pointed out, however, these depictions were contradicted by FBI crime data showing a long-term secular decline (journalistic fact-check). When Paul Manafort, Trump's then-campaign chairman, was pressed about this discrepancy (Schleifer 2016), he questioned the validity of FBI statistics (rejection of the fact-check) and suggested the FBI could not be trusted because it did not recommend indicting Hillary Clinton in her email scandal (conspiracy theory/fact-check source derogation).

The specific treatments shown to participants are as follows:

- *Control:* A birdwatching article.
- Rising crime message: A news article summarizing Trump's claims
- *Rising crime message + fact-check:* A news article summarizing Trump's claims with a fact-check citing FBI statistics.

⁷The full instrument is in Online Appendix A.

- *Rising crime message + fact-check + denial:* A news article summarizing Trump's claims with a fact-check citing FBI statistics and a statement from Manafort rejecting the statistics.
- *Rising crime message + fact-check + denial + source derogation:* A news article summarizing Trump's claims about crime with a fact-check citing FBI statistics, a statement from Manafort rejecting the statistics, and Manafort's contention that the FBI was not to be trusted.

Outcome variables

After treatment, subjects were asked two article recall questions to measure receipt of treatment. We then measured several outcome variables of interest. To assess motivated resistance, we asked people's beliefs about changes in the crime rate. We also asked about perceptions of the accuracy of federal crime statistics and the treatment article and whether/how the treatment article was biased. In addition, respondents were asked to choose among interpretations of crime trends, which were coded for belief consistency.⁸ Finally, we measured evaluations of Trump and other politicians.

Results

Responses were collected on September 30, 2016 by Morning Consult (n = 1, 203) and on Mechanical Turk (n = 2,983).⁹ To assess our hypotheses, we performed a series of OLS

⁹Demographic and balance data for both samples are provided in Online Appendix C.

⁸Per our preregistration, respondents who indicated crime was up due to inequality or unemployment were coded as -1 (liberal), those who said crime was up due to moral decline or down due to tougher policing were coded as 1 (conservative), and other responses were coded as 0.

regressions with robust standard errors.¹⁰ All treatment effect estimates are unweighted intent to treat effects.¹¹ In the pre-treatment vote choice questions, a small percentage of respondents did not support Trump or Clinton; per our preregistration, we exclude them from subsequent analyses.¹²

To evaluate motivated resistance, we test whether the marginal effect of exposure to the fact-check conditions on misperceptions about crime is null or positive for Trump supporters and whether the difference in effects is significant compared to Clinton supporters. To evaluate differential acceptance, we test whether the marginal effect of exposure to the conditions including a fact-check is negative for Trump supporters and whether the difference in treatment effects is significant versus Clinton supporters. We also measure source derogation and counterargument to understand how respondents respond to fact-checks.

Table 1 presents the effects of the manipulation on beliefs about changes in crime where the control condition is the excluded category. These estimates are calculated among Trump and Clinton supporters (the latter are thus the excluded category for the Trump support indicator). The table also reports auxiliary quantities representing differences versus the uncorrected statement condition.

Our results indicate that journalistic fact-checking had a pronounced effect on fac-

¹⁰All analyses in this section are consistent with our preregistration unless otherwise indicated. OLS models are replicated using ordered probit where applicable in Online Appendix C.

¹¹Mean scores on two attention checks were 1.62 and 1.92 for controls and 1.59 and 1.87 for the treatment groups on Morning Consult and Mechanical Turk, respectively. (See Online Appendix A for wording.) We therefore deviate slightly from our preregistration to omit consideration of response time as a measure of attention.

¹²We report equivalent but more complex models estimated on the full sample in Online Appendix C.

	Morning Consult	Mechanical Turk
Trump support	0.52***	0.81***
	(0.16)	(0.11)
Uncorrected statement	-0.34*	-0.05
	(0.18)	(0.09)
Uncorrected \times Trump support	0.35	0.16
	(0.23)	(0.16)
Fact-check	-0.94***	-0.97***
	(0.19)	(0.10)
Fact-check \times Trump support	0.09	0.11
	(0.26)	(0.18)
Fact-check denial	-0.74***	-0.94***
	(0.19)	(0.09)
Fact-check denial \times Trump support	0.21	0.38**
	(0.27)	(0.17)
Denial/source derogation	-1.12***	-0.77***
C	(0.19)	(0.10)
Denial/source derogation \times Trump support	0.61**	0.29*
0 1 11	(0.27)	(0.17)
Constant	3.64***	3.01***
	(0.12)	(0.06)
Fact-check – uncorrected statement		
Clinton supporters	-0.61***	-0.92***
	(0.19)	(0.10)
Trump supporters	-0.86***	-0.97***
1 11	(0.18)	(0.15)
Denial – uncorrected statement		
Clinton supporters	-0.41**	-0.89***
	(0.19)	(0.09)
Trump supporters	-0.55***	-0.67***
1 11	(0.19)	(0.14)
Denial/derogation – uncorrected statement		
Clinton supporters	-0.78***	-0.72***
	(0.19)	(0.10)
Trump supporters	-0.52***	-0.59***
r	(0.20)	(0.14)
R ²	0.14	0.19
N	990	2430

Table 1: Message exposure effects on beliefs about changes in crime

* p < 0.10, ** p < 0.05, *** p < .01 (two-sided). OLS models with robust standard errors. All independent variables are dichotomous indicators. Dependent variable is a five-point scale of perceived change in crime incidence where higher values indicate perceived greater incidence. Participants are respondents from Morning Consult or Mechanical Turk who supported Hillary Clinton or Donald Trump in the 2016 election (reference category for Trump support is thus Clinton support).

tual beliefs. Though Trump's supporters were more likely than Clinton's to believe that crime had increased or not declined significantly over the previous ten years, corrective information reduced misperceptions among supporters of both candidates. Specifically, respondents exposed to FBI statistics about decreased crime reported significantly lower misperceptions compared to the uncorrected statement conditions in both samples regardless of the candidate they supported (p < .01). Exposure to Trump's claim did not further increase misperceptions among his supporters.

Our results are inconsistent with motivated resistance. We do observe some evidence of differential acceptance, however. Both the fact-check denial on Mechanical Turk (p <.05) and the denial/source derogation in both samples (p < .05 in Morning Consult, p <.10 in Turk) reduce crime misperceptions less among Trump supporters than Clinton supporters.¹³

These findings are illustrated in Figure 1, which presents mean crime perceptions by condition and candidate support from the Morning Consult data. Mean beliefs about crime change among Trump supporters declined from 4.17 (out of 5) in the control and uncorrected statement conditions to 3.31 in the fact-check condition, 3.62 in the fact-check and denial condition, and 3.65 in the fact-check/denial/source derogation condition. Similar declines are observed among Clinton supporters.

To understand these responses, we examine how the treatments affect judgments of the accuracy and fairness of the articles. Table 2 demonstrates that fact-checks provoke different perceptions of accuracy and fairness among Clinton and Trump supporters. More specifically, this table presents results from statistical models available in Table C6 in Online Appendix C that estimate the effect of the manipulation on the perceived fairness and accuracy of the stimulus article and the perceived accuracy of federal crime statistics

¹³These quantities are estimated with respect to the control condition. These differences are not significant relative to the uncorrected condition.

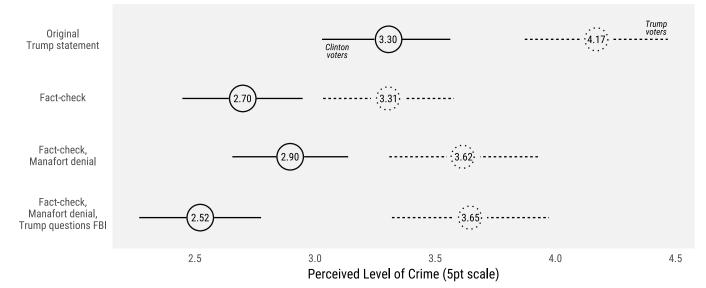


Figure 1: Crime perceptions by treatment condition and candidate support

Mean beliefs about crime change by candidate preference and experimental condition. Survey data from Morning Consult.

for Clinton and Trump supporters relative to the uncorrected condition.

Relative to the uncorrected statement condition, Clinton supporters view the article as more accurate and fair when a fact-check is present. In three of four comparisons, they even view federal crime statistics as more accurate when Trump's staffer questions them. By contrast, Trump supporters view the article as less accurate and fair when it includes a fact-check — a contrast with their reported factual beliefs, which became more accurate. Trump supporters are also less likely to view federal crime statistics as accurate when they are invoked in a fact-check, especially when questioned by a Trump staffer (p < .01 in each denial condition versus the uncorrected condition).

To illustrate these findings, we plot the means of the perceived accuracy of the stimulus article and federal crime statistics by condition and candidate support for the Morning Consult data in Figure 2. When Trump supporters receive a fact-check, they are less likely to see the article or federal crime statistics as accurate (mean of 2.7 for both) compared to when they receive Trump's uncorrected statement (means of 2.8 and 3.0, respectively).

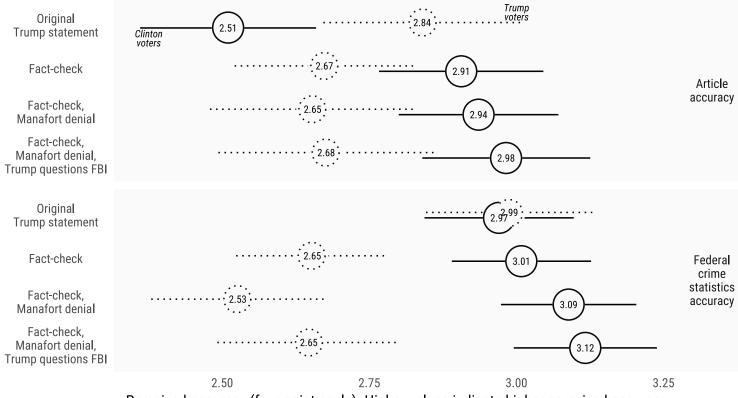


Figure 2: Perceived accuracy of article and federal crime statistics by treatment condition and candidate support

Perceived accuracy (four-point scale). Higher values indicate higher perceived accuracy.

Mean perceived accuracy and fairness of the stimulus article and perceived accuracy of federal crime statistics by candidate preference and experimental condition. Survey data from Morning Consult.

	Article accurate		Article fairness		Statistics accurate	
	MC	MT	MC	MT	MC	MT
Fact-check – uncorrected						
Clinton supporters	0.40***	0.65***	0.26**	0.56***	0.04	0.08*
	(0.11)	(0.05)	(0.11)	(0.06)	(0.09)	(0.04)
Trump supporters	-0.17*	-0.21***	-0.24***	-0.30***	-0.33***	-0.11
	(0.10)	(0.08)	(0.09)	(0.07)	(0.10)	(0.07)
Denial – uncorrected						
Clinton supporters	0.43***	0.69***	0.28**	0.47***	0.12	0.14***
	(0.10)	(0.06)	(0.11)	(0.06)	(0.08)	(0.04)
Trump supporters	-0.19*	-0.06	-0.37***	-0.26***	-0.46***	-0.21***
	(0.11)	(0.08)	(0.11)	(0.07)	(0.11)	(0.07)
Denial/derogation – uncorrected						
Clinton supporters	0.47***	0.68***	0.24**	0.41***	0.15*	0.11**
	(0.10)	(0.06)	(0.11)	(0.06)	(0.08)	(0.04)
Trump supporters	-0.16	-0.10	-0.23**	-0.22***	-0.34***	-0.16**
	(0.10)	(0.07)	(0.10)	(0.07)	(0.10)	(0.07)

Table 2: Message exposure effects on perceptions of accuracy and fairness

* p < 0.10, ** p < 0.05, *** p < .01. Auxiliary quantities from OLS models with robust standard errors reported in Table C6. All independent variables are dichotomous indicators. For each dependent variable, higher values indicate greater accuracy and fairness (each measured on a four-point scale). Participants are respondents from Morning Consult (MC) or Mechanical Turk (MT) who supported Hillary Clinton or Donald Trump in the 2016 election (reference category for Trump support is thus Clinton support).

The opposite pattern is frequently observed among Clinton supporters, who view the article as more accurate when a fact-check is included (mean of 2.9 versus 2.5). These responses do not vary in the presence of fact-check denial or source derogation; the response seems driven by the presence of a fact-check.¹⁴

The differences in perceptions of the articles that we observe can be interpreted as consistent with H3. However, as Table C11 in Online Appendix shows, we do not find evidence that people interpret the changes in crime they perceive in a viewpoint-consistent manner (e.g., "[t]ougher policing and longer prison sentences" for Trump supporters who think crime has decreased).

Finally, we estimate the marginal effect of fact-checking on evaluations of Trump

¹⁴Findings are similar for perceived article bias (see Online Appendix C).

among Clinton and Trump supporters in Table 3. Specifically, we asked subjects to evaluate both candidates on a 1–5 scale ranging from "Very unfavorable" to "very favorable." We find no significant effects of the fact-check on favorability toward Trump regardless of respondents' candidate preference.¹⁵

In sum, the evidence from Study 1 shows that, even if people are inclined to take a skeptical view of a fact-checking article and the data underlying it, fact-checks can still spur people to hold more factually accurate beliefs. However, these changes in belief accuracy do not seem to lead to corresponding changes in attitudes toward the candidate being fact-checked.

Study 2

One limitation of Study 1 is that we examined the effects of a fact-check several weeks after the misstatement it targeted was made. It is possible that subjects had already been exposed to fact-checking of the misstatements we studied and that this exposure limited the effects of the fact-check on attitudes toward the candidate. The design of Study 2 addresses this limitation because it was conducted immediately after the first 2016 presidential debate.

In the first wave of Study 2, 1,546 participants from Mechanical Turk were asked standard political and demographic questions as well as questions about their access to cable television and media consumption. They were then instructed to watch the debate and told

¹⁵In Table C19 in Online Appendix C, we show that the manipulation had no effect on favorability toward Clinton or Barack Obama either.

	Morning Consult	Mechanical Turk
Trump support	2.50***	2.42***
	(0.14)	(0.10)
Uncorrected statement	-0.03	-0.07
	(0.13)	(0.06)
Uncorrected \times Trump support	0.13	0.12
	(0.20)	(0.14)
Fact-check	0.10	-0.12*
	(0.13)	(0.06)
Fact-check \times Trump support	-0.11	-0.03
	(0.20)	(0.14)
Fact-check denial	0.10	-0.05
	(0.13)	(0.07)
Denial \times Trump support	0.01	-0.09
	(0.20)	(0.14)
Denial/source derogation	-0.13	-0.05
C	(0.11)	(0.07)
Derogation \times Trump support	0.17	-0.06
	(0.21)	(0.15)
Constant	1.42***	1.36***
	(0.09)	(0.05)
Fact-check – uncorrected statement		
Clinton supporters	0.14	-0.05
	(0.13)	(0.06)
Trump supporters	-0.10	-0.21
	(0.14)	(0.13)
Denial – uncorrected statement	· · · ·	
Clinton supporters	0.13	0.02
	(0.13)	(0.06)
Trump supporters	0.01	-0.19
	(0.16)	(0.14)
Denial/derogation – uncorrected statement		
Clinton supporters	-0.09	0.02
	(0.11)	(0.06)
Trump supporters	-0.06	-0.17
1 11	(0.18)	(0.14)
R ²	0.62	0.58
N	989	2430

Table 3: Message exposure effects on Trump favorability

* p < 0.10, ** p < 0.05, *** p < .01. OLS models with robust standard errors. All independent variables are dichotomous indicators. The dependent variable is a five-point scale where higher values indicate greater favorability. Participants are respondents from Morning Consult or Mechanical Turk who supported Hillary Clinton or Donald Trump in the 2016 election (reference category for Trump support is thus Clinton support).

they would be invited to take a survey immediately after its conclusion.¹⁶ As soon as the debate ended, participants were invited to complete a survey that included questions about candidates' debate performances and respondents' general attitudes towards the candidates (Wave 2). It included the following statement from Trump:

Our jobs are fleeing the country to Mexico... they're building some of the biggest, most sophisticated plants. Not so much in America. Thousands of jobs leaving Michigan, Ohio...their companies are just leaving, they're gone.¹⁷

The claim that large numbers of jobs were leaving Michigan and Ohio at the time due to factories being moved abroad is inaccurate. As fact-checkers pointed out on the night of the debate, employment had not fallen in either state. *The New York Times* fact-check pointed to the number of new jobs created in each state over the previous year (New York Times 2016). A fact-check by National Public Radio (NPR) of this Trump statement directed readers to the Bureau of Labor Statistics (BLS) for data confirming the fact check—and rebutting Trump (National Public Radio 2016).

After seeing Trump's claim, respondents were randomly assigned with probability .5 to receive the following fact-check: "In fact, according to the Bureau of Labor Statistics,

¹⁶Because the broader experiment in which Study 2 was embedded was designed to examine how post-debate news coverage affected debate perceptions, participants were assigned to one of five content consumption conditions that were orthogonal to the randomization we examine here (C-SPAN with no post-debate coverage, Fox News with or without post-debate coverage, or MSNBC with or without post-debate coverage). We excluded subjects who did not have access to cable and block-randomized by party and preferred cable channel. For additional details, consult (reference omitted for peer review).

¹⁷The instrument was prepared before transcripts were available, so the statement in our study differs slightly from the official transcript.

unemployment has fallen in both states. Both states each saw 70,000 new jobs over the last year." Like *The New York Times*' fact-check on the night of the debate, we pointed to the number of new jobs created in each state over the previous year; and like NPR's fact-check, we explicitly based the claim of the fact check on BLS data.

All respondents then were asked: "Over the last few years, has unemployment gone up or down in Michigan and Ohio?" Subjects could respond on a five-point scale, from "Gone down a lot" to "Gone up a lot," with "Stayed the same" as the middle category. (See Online Appendix A for exact wording.) This wave was closed by noon the next day. Five days later, we recontacted participants and measured perceptions of the debate's winner and attitudes toward the candidates (Wave 3).¹⁸

Study 2 allows us to test for both motivated resistance (H1) and differential acceptance (H2). Under H1 (motivated resistance), Trump supporters exposed to the fact-check would not only resist, but come to hold *more* inaccurate views than uncorrected Trump supporters. The fact-check treatment undermined Trump's claims about the economy and his opposition to foreign trade, which were central to his candidacy. The claim's political importance and its clear contradiction by government data makes it a useful test of partisans'

¹⁸See Online Appendix C for details on participant demographics and experimental balance. Though we cannot rule out the possibility of post-treatment bias (Montgomery, Nyhan, and Torres 2018), we find no significant effect of treatment assignment at wave 2 on wave 3 participation in a simple OLS model ($\beta = 0.05$, p > .10).

responsiveness to fact-checking.¹⁹ Under H2 (differential acceptance), Trump and Clinton supporters who are exposed to the fact-check would both integrate this information, but Trump supporters would be less accepting of it.

Analysis

We begin with respondents' beliefs about unemployment in Michigan and Ohio after the fact-check in Wave 2. Following Study 1, we estimate OLS models with robust standard errors that include indicators for fact-check exposure and Trump support in Wave 1 and an interaction term.²⁰ As in Study 1, we restrict our analysis to respondents who reported supporting Clinton or Trump in Wave 1. The outcome measure is coded so that higher values indicate belief that unemployment stayed the same or increased rather than decreased.

We present results in Table 4. The first model shows that the fact-check decreased misperceptions about unemployment in Michigan and Ohio among both Clinton and Trump supporters (p < .01). As with Study 1, the evidence from Study 2 does not support motivated resistance (H1). We also find no evidence of differential acceptance, contradicting H2. The second model shows that these results are consistent when we control for the

¹⁹Such fact-checks are common. For instance, more than 60% of the claims rated by PolitiFact and the Washington Post Fact Checker were found to be mostly or totally false by both fact-checkers (Lim 2018). Moreover, fact-checkers consider it part of their mission to check claims against official data sources and frequently do so. Graves (2016, 85) writes, for instance, that "Fact-checkers always seek official data and often point to examples like this [a fact-check assessing claims about government spending and job growth using federal data] to explain what they do."

²⁰The design does not include a control condition or fact-check denial and denial/source derogation conditions. The omitted category is an uncorrected statement.

	(1)	(2)
Trump support	0.44***	0.45***
Fact-check	(0.13) -0.34^{***}	(0.13) -0.34^{***}
Fact-check × Trump support	(0.11) -0.20 (0.18)	(0.11) -0.20 (0.18)
Condition: MSNBC (post-debate coverage)	(0.18)	(0.18) 0.06 (0.14)
Condition: MSNBC (no post-debate coverage)		(0.14) 0.03 (0.14)
Condition: Fox (post-debate coverage)		(0.14) -0.13 (0.14)
Condition: Fox (no post-debate coverage)		(0.11) -0.04 (0.15)
Constant	2.70*** (0.07)	2.71*** (0.12)
Fact-check – uncorrected statement		
Clinton supporters	-0.34***	-0.34***
Trump supporters	$(0.11) \\ -0.54^{***} \\ (0.14)$	
R ² N	0.05 825	0.05 825

Table 4: Message exposure effects on unemployment beliefs

* p < 0.10, ** p < 0.05, *** p < .01 (two-sided). OLS models with robust standard errors. Respondents are Mechanical Turk workers who supported Hillary Clinton or Donald Trump and were assigned to watch the first presidential debate in 2016 (reference category for Trump support is thus Clinton support). All independent variables are dichotomous indicators. The dependent variable is a five-point scale of perceived change in unemployment in Ohio and Michigan where higher values indicate a perceived increase in unemployment. The omitted category for the media manipulation is C-SPAN with no post-debate coverage.

orthogonal media manipulation.

Finally, Table 5 considers fact-check effects five days later (Wave 3). We again use OLS models with robust standard errors to estimate whether exposure to a fact-check affected perceptions that Trump won the debate, evaluations of his debate performance, and vote choice. We again include indicators for fact-check exposure and Trump support and an interaction term. We see no evidence that the fact-check affected these outcomes except for

perceptions that Trump "won" the debate, which declined slightly among his supporters. However, vote choice was not affected. Echoing Study 1, fact-checking reduced misperceptions but had no discernible effects on participants' candidate preferences, including supporters of the candidate who had been fact-checked.

	Trump won debate	Trump favorability	Trump vote
Trump support (W1)	0.67***	0.47***	0.89***
	(0.04)	(0.02)	(0.03)
Fact-check	0.02	0.01	-0.001
	(0.03)	(0.02)	(0.02)
Fact-check \times Trump vote (W1)	-0.17^{***}	-0.06	-0.01
	(0.06)	(0.04)	(0.04)
Constant	0.02	0.16***	0.03*
	(0.02)	(0.02)	(0.02)
Fact-check – uncorrected statement			
Clinton supporters	-0.02	-0.01	-0.001
	(0.03)	(0.02)	(0.02)
Trump supporters	-0.15**	-0.05	-0.01
	(0.05)	(0.03)	(0.03)
R^2	0.47	0.53	0.81
N	527	527	527

Table 5: Fact-check effects at Wave 3

* p < 0.10, ** p < 0.05, *** p < .01. OLS models with robust standard errors. All independent variables are dichotomous indicators. The dependent variables are measured on a five-point scale where higher values indicate greater belief that Trump won the debate, a more favorable attitude toward Trump, or a greater intention to vote for Trump, respectively. Respondents are Mechanical Turk workers who supported Hillary Clinton or Donald Trump in the 2016 election (reference category for Trump support is thus Clinton support). All outcome measures were collected in wave 3.

Conclusion

In two studies of fact-checking conducted during the 2016 presidential election, we find that people express more factually accurate beliefs after exposure to fact-checks. These effects hold even when fact-checks target their preferred candidate. In Study 1, we exposed participants to variants of an article covering claims Donald Trump made about crime.

Trump supporters were willing to accept a fact-check of those claims and update their beliefs, though we observe some evidence of differential acceptance (i.e., they revised their beliefs less than Clinton supporters). Similarly, the accuracy of Trump supporters' beliefs about unemployment increased in Study 2 after seeing a fact-check of a claim Trump made during the first debate. However, exposure to journalistic fact-checks did not affect attitudes toward him in either study. Ultimately, we find no evidence that changes in factual beliefs in a claim made by a candidate affect voter preferences during a presidential election.

Our results on interpretations were mixed. Study 1 participants evaluated the fairness and accuracy of the stimulus article and the accuracy of the federal crime statistics it cited in a directionally motivated fashion. However, they did not adopt viewpoint-consistent interpretations of the change in crime. Further research is needed to understand how respondents interpret counter-attitudinal fact-checks and other forms of corrective information.

These results help theoretically inform our understanding of both motivated reasoning and factual belief updating. As with other recent research (Wood and Porter 2018), we find little evidence of a backfire effect on respondents' factual beliefs. However, our results also do not suggest that respondents accept fact-checks uncritically; exposure to counterattitudinal information decreases perceptions of the accuracy of our stimulus article and the source of counter-attitudinal information in Study 1. These findings suggest motivated reasoning can coexist with belief updating, a possible explanation for divergent findings in the literature (e.g., Flynn 2016); they need not be mutually exclusive phenomena (see also Coppock and Guess N.d. and Khanna and Sood 2018).

Of course, these studies have several limitations. First, we did not test a fact-check of a Clinton misstatement and cannot evaluate how her supporters would have reacted. Second, Trump was infamous for extreme exaggerations and misstatements, which may have made some respondents receptive to fact-checking but also prepared his supporters to rationalize their continued support for him. Also, we measured feelings toward the candidates post-treatment and use them as an outcome measure. It is possible that that the strongest Trump supporters respond to fact-checks differently than less ardent supporters, but we are unable to test this conjecture.

Further research is also necessary to determine the extent to which our results generalize to other contexts or forms of fact-checking. Our results suggest that fact-checks are unlikely to meaningfully diminish the strong attachments people have to their party's candidate in a campaign context with strong partisan cues. Their effects may be stronger, however, in elections with weaker partisan cues and less well-known figures on the ballot (e.g., Wintersieck 2017). In addition, fact-checks could have stronger attitudinal effects on feelings toward politicians the more temporally distant they are from an election. In addition, the scope of our finding is limited to the effects of a fact-check of a single misstatement, the format most often employed by journalists. Correcting a series of inaccurate claims might have had larger effects on candidate evaluations. Other research might also consider the effects of joint fact-checking of both major-party candidates or of positive fact-checks corroborating the accuracy of a candidate's claim. In addition, future research should examine affective and emotional responses to candidate misstatements of fact as well as the fact-checks that set the record straight.

Finally, as with all studies of this sort, we cannot completely rule out acquiescence bias or demand effects. Recent research indicates that demand effects in Internet-based survey experiments are relatively rare, however (Mummolo and Peterson N.d.).

Despite these limitations, our results provide compelling evidence that citizens can accept the conclusions of journalistic fact-checks of misstatements even when they are made by one's preferred candidate during a presidential election. This information had little effect on people's attitudes toward the candidate being corrected, however. In other words, Trump supporters took fact-checks literally, but not seriously enough to affect how they felt toward their preferred candidate.

References

- BBC. 2016. "'Post-truth' declared word of the year by Oxford Dictionaries." November 16, 2016. Downloaded February 6, 2017 from http://www.bbc.com/news/uk-37995600.
- Bolsen, Toby, James N Druckman, and Fay Lomax Cook. 2014. "The influence of partisan motivated reasoning on public opinion." *Political Behavior* 36 (2): 235–262.
- Chan, Man-pui Sally, Christopher R. Jones, Kathleen Hall Jamieson, and Dolores Albarracín. 2017. "Debunking: A Meta-Analysis of the Psychological Efficacy of Messages Countering Misinformation." *Psychological Science* 28 (11): 1531–1546.
- Coppock, Alexander, and Andrew Guess. N.d. "Does Counter-Attitudinal Information Cause Backlash? Results from Three Large Survey Experiments." Forthcoming, British Journal of Political Science.
- Flynn, D.J. 2016. "The Scope and Correlates of Political Misperceptions in the Mass Public." Unpublished paper, Dartmouth College.
- Funk, Carolyn L. 1999. "Bringing the candidate into models of candidate evaluation." *The Journal of Politics* 61 (3): 700–720.
- Gaines, Brian J., James H. Kuklinski, Paul J. Quirk, Buddy Peyton, and Jay Verkuilen.
 2007. "Same facts, different interpretations: Partisan motivation and opinion on Iraq." *Journal of Politics* 69 (4): 957–974.
- Garrett, R. Kelly, Erik C. Nisbet, and Emily K. Lynch. 2013. "Undermining the corrective

effects of media-based political fact checking? The role of contextual cues and naïve theory." *Journal of Communication* 63 (4): 617–637.

- Graves, Lucas. 2016. *Deciding what's true: The rise of political fact-checking in American journalism*. Columbia University Press.
- Hill, Seth J. 2017. "Learning together slowly: Bayesian learning about political facts." *The Journal of Politics* 79 (4): 1403–1418.
- Hochschild, Jennifer L., and Katherine Levine Einstein. 2015. *Do Facts Matter? Information and Misinformation in American Politics*. Norman, OK: University of Oklahoma Press.
- Jamieson, Kathleen Hall. 2015. "Implications of the Demise of 'Fact' in Political Discourse." *Proceedings of the American Philosophical Society* 159 (1): 66–84.
- Jarman, Jeffrey W. 2016. "Motivated to Ignore the Facts: The Inability of Fact-Checking to Promote Truth in the Public Sphere." In *Truth in the Public Sphere*, ed. Jason Hannan. Lexington Books.
- Khanna, Kabir, and Gaurav Sood. 2018. "Motivated Responding in Studies of Factual Learning." *Political Behavior* 40 (1): 79–101.
- Krupnikov, Yanna, and Adam Seth Levine. 2014. "Cross-sample comparisons and external validity." *Journal of Experimental Political Science* 1 (1): 59–80.
- Kunda, Ziva. 1990. "The case for motivated reasoning." *Psychological bulletin* 108 (3): 480–498.
- Lenz, Gabriel S. 2012. *Follow the leader? How voters respond to politicians' performance and policies*. Chicago, IL: University of Chicago Press.

Lim, Chloe. 2018. "Checking How Fact-Checkers Check." Research & Politics 5 (3).

- Marietta, Morgan, David C. Barker, and Todd Bowser. 2015. "Fact-Checking Polarized Politics: Does the Fact-Check Industry Provide Consistent Guidance on Disputed Realities?" *The Forum: A Journal of Applied Research in Contemporary Politics* 13 (4): 577-596.
- Molden, Daniel C., and E. Tory Higgins. 2005. "Motivated thinking." In *The Cambridge handbook of thinking and reasoning*, ed. Keith James Holyoak and Robert G. Morrison. Cambridge University Press.
- Montgomery, Jacob M., Brendan Nyhan, and Michelle Torres. 2018. "How Conditioning on Posttreatment Variables Can Ruin Your Experiment and What to Do about It." *American Journal of Political Science* 62 (3): 760–775.
- Mummolo, Jonathan, and Erik Peterson. N.d. "Demand Effects in Survey Experiments: An Empirical Assessment." SSRN. Downloaded September 30 2018 from https:// papers.ssrn.com/sol3/papers.cfm?abstract_id=2956147.
- National Public Radio. 2016. "Fact Check: Trump And Clinton Debate For The First Time." September 26, 2016. Downloaded February 15, 2017 from http://www.npr.org/2016/09/26/495115346/ fact-check-first-presidential-debate.
- New York Times. 2016. "Our Fact Checks of the First Debate." September 26th, 2016. Downloaded July 27, 2018 from https://www.nytimes.com/2016/09/27/ us/politics/fact-check-debate.html.
- Nyhan, Brendan, and Jason Reifler. 2010. "When Corrections Fail: The persistence of political misperceptions." *Political Behavior* 32 (2): 303–330.

- Nyhan, Brendan, and Jason Reifler. 2015. "The Effect of Fact-Checking on Elites: A Field Experiment on US State Legislators." *American Journal of Political Science* 59 (3): 628–640.
- Nyhan, Brendan, and Jason Reifler. N.d. "Do People Actually Learn From Fact-Checking? Evidence from a longitudinal study during the 2014 campaign." Unpublished manuscript. Downloaded June 28, 2017 from http://www.dartmouth. edu/~nyhan/fact-checking-effects.pdf.
- Nyhan, Brendan, Jason Reifler, and Peter A. Ubel. 2013. "The hazards of correcting myths about health care reform." *Medical Care* 51 (2): 127–132.
- Pierce, Patrick A. 1993. "Political sophistication and the use of candidate traits in candidate evaluation.".
- Politico. 2016. "Trump wrong on Michigan job losses." September 26, 2016. Downloaded November 11, 2017 from https://www.politico.com/ blogs/2016-presidential-debate-fact-check/2016/09/ trump-wrong-on-michigan-job-losses-228707.
- Porter, Ethan, Thomas J. Wood, and David Kirby. 2018. "Sex Trafficking, Russian Infiltration, Birth Certificates, and Pedophilia: A Survey Experiment Correcting Fake News." *Journal of Experimental Political Science* 2 (5): 304–331.
- Rahn, Wendy M., John H. Aldrich, Eugene Borgida, and John L Sullivan. 1990. "A Social Cognitive Model of Candidate Appraisal." In *Information and Democratic Processes*, ed. John A. Ferejohn and James H. Kuklinski. University of Illinois Press.
- Schleifer, Theodore. 2016. "Paul Manafort doubts FBI statistics after agency spared Hillary." CNN, July 12, 2016. Downloaded February

- 13, 2017 from http://www.cnn.com/2016/07/21/politics/ paul-manafort-fbi-statistics-hillary-clinton/.
- Spivak, Carey. 2011. "The Fact-Checking Explosion." *American Journalism Review* 32: 38–43.
- Sullivan, Eileen, and Chad Day. 2016. "AP FACT CHECK: Crime stats don't back Trump's dire view." Associated Press, July 13, 2016. Downloaded October 22, 2018 from https://apnews.com/3e132f145e0c44cf96cb7f4fd448b34a.
- Taber, Charles S., and Milton Lodge. 2006. "Motivated Skepticism in the Evaluation of Political Beliefs." *American Journal of Political Science* 50 (3): 755–769.
- Uscinski, Joseph, and Ryden Butler. 2013. "The Epistemology of Fact Checking." *Critical Review* 25 (2): 162–180.
- Weeks, Brian E. 2015. "Emotions, partisanship, and misperceptions: How anger and anxiety moderate the effect of partisan bias on susceptibility to political misinformation." *Journal of Communication* 65 (4): 699–719.
- Wintersieck, Amanda L. 2017. "Debating the truth: The impact of fact-checking during electoral debates." *American Politics Research* 45 (2): 304–331.
- Wood, Thomas, and Ethan Porter. 2018. "The Elusive Backfire Effect: Mass Attitudes' Steadfast Factual Adherence." *Political Behavior*.

Zaller, John. 1992. The Nature and Origins of Mass Opinion. Cambridge University Press.