Truth and Bias, Left and Right. Testing ideological asymmetries with a realistic news supply

SUPPLEMENTARY MATERIALS

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A Pennycook & Rand (2019) replication

The authors of the original study did not only ensure that there was an equal number of pro-Clinton and pro-Trump items. They also balanced on the continuum of ideological valence, so that pro-Clinton items were pretested as equally distant from the ideology midpoint as pro-Trump items (as communicated in an email exchange). To account for this, I filter out sub-samples that do not meet this criterion in the below plot. Of my 500 sub-samples, 0.94 are balanced this way. Of those, only 0.53 are significant, supporting the point made in main paper.

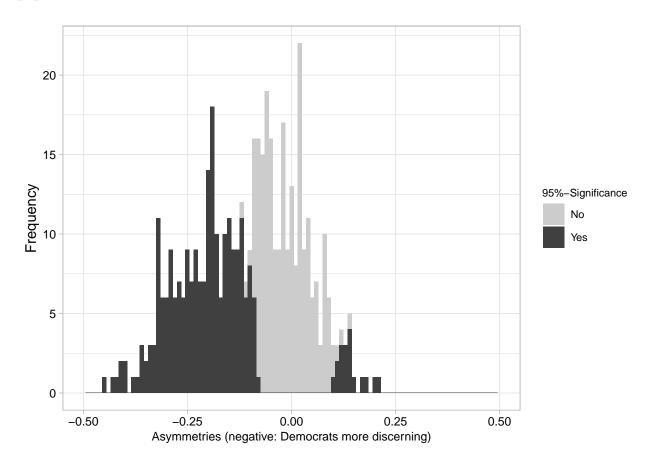


Figure 1: Re-analysis of Pennycook and Rand (2019), with continuous balancing

B News item sample

B.1 Data collection from Google News

The Google News data was collected through the Google News API with the following parameters: "from" and "to" in order to define the time frame; "language" set to "en" to limit results to English news items; "sources" to a list of sources determined through the endpoint https://newsapi.org/v2/sources with parameter "country" set to "us" and "category" to "business", "general", "health" or "science" to exclude news that are likely non-political.

B.2 Data collection from fact-checkers

A first risk in relying on fact-checkers is a potential ideological bias in selection what information to check (Ostermeier 2011; Uscinski and Butler 2013; Marietta, Barker, and Bowser 2015). Second, some fact-checker only publish about news checked as false. The aim of publishing only the latter might distort the selection process (Marietta 2019). A third risk is that although fact-checkers have been found to be reliable on outright truths and falsehoods, ratings of ambiguous claims are more unreliable (Nieminen and Rapeli 2019; Lim 2018). To minimize these risks, I excluded fact-checkers that only publish false results. I further excluded fact-checkers that primarily check speeches by politicians. I ended up with the three organizations Snopes, Politifact and Truth or Fiction.

The risk of selection bias cannot be excluded completely. At least in theory, all three organisations commit to non-partisan selection, although procedures do not seem formalized. Snopes explains that they "don't choose or exclude items for coverage based on whether they deal with Republican/Democratic, conservative/liberal, or religious/secular issues" and that "reader interest" plays a role. PolitiFact lists several selection criteria, among them whether a statement is "significant" and commits "to check from both Democrats and Republicans". Truth or Fiction describes their focus as "on stories that are the most widely-circulated via social media".

The fact-check collection was composed through scraping the archives of Snopes, Politifact and Truth or Fiction for the same time frame with the following parameters:

- https://www.snopes.com/fact-check/category/politics/; reports labelled as "mixture", "unproven", "outdated", "miscaptioned", "scam", "legend", "labeled satire", "lost legend", "mostly true" and "mostly false" were not included; those labelled as "false", "misattribution", "true" or "correct attribution" were included.
- https://www.politifact.com/factchecks/; categories "Facebook Post", "Bloggers" and "Instagram" included; "Viral Image" and "Names" exluded; reports labelled as "True", "False" or "Pants on Fire" included, "Mostly True", "Half True" and "Mostly False" excluded.

¹https://www.snopes.com/faq/decide-fact-check/, accessed August 24th, 2020.

²https://www.PolitiFact.com/article/2018/feb/12/principles-truth-o-meter-PolitiFacts-methodology-i/, accessed August 24th, 2020.

³https://www.truthorfiction.com/about/, accessed August 24th, 2020.

• https://www.truthorfiction.com/category/fact-checks/politics/; items labelled "Truth!" or "Fiction!" included, "Reported to be Truth!", "Reported to be Fiction!", "Unproven!" and "Truth! & Fiction!" excluded.

Below, Section B.3 list the items excluded during the iterative sampling procedure, separately for the two collections. Exclusion reasons as explained in the paper. Section B.4 lists the URLs of the items in the final sample. Each item has a unique ID that corresponds to the ID in Table 5.

B.3 Iterative sampling exclusions

I filtered out items according to the following criteria, as listed in the pre-analysis plan. To meet the definition of the population of political news, I excluded items (1) that have a normative character, such as analysis or opinion pieces; (2) items that were non-political in content; and (3) information that consisted only of a social media statement by a politician that was not embedded in a report. Further, the practical limitation of a survey required to exclude (4) items that consist of summaries of several news reports, such as press digests or "latest updates", as they would complicate the measurement of the main outcome; (5) overly long items such as long-read features, if it was impossible to shorten them without distorting the substance (otherwise, items were shortened if too long for the survey format); (6) items that consisted primarily of video, photo or audio content, also including graphic memes; (7) items that were primarily reactions to other reports that could not be meaningfully represented without including the reference; and (8) items with broken URLs or behind paywalls.

Iteration	Item URL	Reason for exclusion
1	www.cbsnews.com/video/remains-of-pearl-harbor-sailor-return-home/	Video/audio/photo
1	www.foxnews.com/opinion/tara-mcclary-reeves-thank-service-veterans	Opinion/analysis
1	www.foxnews.com/entertainment/dennis-quaid-laura-savoie-engagement-ring	Non-political
1	$feedproxy.google.com/\sim r/discovercrux/\sim 3/ua-_f7ICGVg/when-a-bee-falls-in-water-it-surfs-tiny-ripples-to-safety$	Broken URL
1	www.aljazeera.com/indepth/features/diplomats-sale-ambassadorship-bought-lost-191202080408558.html	Length
1	www.washingtonpost.com/world/asia_pacific/pakistani-lawyer-who-fought-for-unlawfully-held-is-abducted/2019/12/17/4871a99e-20b5-11ea-b034-de7dc2b5199b_story.html	Length
1	www.msnbc.com/kasie-dc/watch/the-nixonian-smoking-gun-from-trump-impeachment-probe-71203909720"	Video/audio/photo
1	www.politico.com/news/2019/12/10/democrats-fret-trade-deal-trump-reelection-081447	Opinion/analysis
1	www.usatoday.com/story/news/nation/ $2020/03/22$ /coronavirus-n-95-mask-shortage-us-femadonald-trump/ 2895344001 /	Length
1	apnews.com/ f 3de10fe7d622b0a5b06e0969975fa2b	Non-political
1	disneyparks.disney.go.com/blog/2019/10/disneyland-resort-cast-members-help-build-12th-disney-sponsored-kaboom-playground-in-anaheim/	Non-political
1	www.businessinsider.com/ces-2020-bosch-virtual-visor-blocks-sun-glare-while-driving-2020-1	Non-political
1	abcnews.go.com/Health/video/coronavirus-daily-update-06-2020-70543470	Video/audio/photo
1	radio.foxnews.com/2020/03/19/a-look-inside-facebook-with-steven-levy/	Video/audio/photo
1	www.washingtonpost.com/opinions/2019/10/24/what-jews-think-about-anti-semitism/	Opinion/analysis
1	www.newsweek.com/impeachment-trial-1483970	Opinion/analysis
1	time.com/5803809/arnold-schwarzenegger-coronavirus/	Video/audio/photo
1	www.reuters.com/article/us-rio-tinto-aluminium-iceland-idUSKBN2060Y8	Non-political
1	www.reuters.com/article/usa-stocks-idUSZXN0RP62I	Summary article
1	www.cnn.com/2019/11/30/entertainment/kpop-pressures-goo-hara-sulli-intl-hnk-scli/index.html	Non-political
1	apnews.com/f95ab09060ec2ff4b0aa48f725abd224	Non-political

6

Iteration	Item URL	Reason for exclusion
1	www.nbcnews.com/politics/trump-impeachment-inquiry/live-blog/impeachment-live-updates-judiciary-debates-articles-impeachment-n1100121	Summary article
1	www.businessinsider.com/kobe-bryants-last-public-appearance-nba-game-with-daughter-gigi-2020-1	Non-political
1	www.wsj.com/articles/u-s-indicts-venezuelan-president-nicolas-maduro-on-allegations-of-drug-trafficking-11585236443	Paywall
1	www.businessinsider.com/jane-street-millennium-corporate-bond-trading-technology-2020-1	Non-political
1	www.newsweek.com/how-some-senators-positions-impeachment-trial-witnesses-changed-clinton-trump-1482192	Length
2	www.reuters.com/article/emerging-markets-idUSL8N29P1IB	Summary article
2	www.foxnews.com/science/astronaut-scott-kelly-describes-life-coronavirus-lockdown	Non-political
2	$feedproxy.google.com/\sim r/apartmenttherapy/thekitchn/\sim 3/wp0NyzrWVdQ/a-week-of-easy-make-ahead-comfort-meals-23017865$	Broken URL
2	apnews.com/d665ac3c89877273c67ea9c8cae65b23	Non-political
2	feedproxy.google.com/~r/crunchyroll/animenews/~3/dqyzJoQ0bRs/xenoblade-chronicles-gears-up-for-switch-debut-with-overview-trailer	Broken URL
2	feedproxy.google.com/~r/macupdate/~3/WvMasE4yNqM/1581154616	Broken URL
2	rss.cnn.com/~r/services/podcasting/studentnews/rss/~3/EQEpyrIWIRI/ten-0325.cnn_3157044_ios_1240.mp4	Broken URL
2	thehill.com/business-a-lobbying/lobbying-hires/482673-lobbying-world	Non-political
2	www.nbcnews.com/news/crime-courts/patrick-frazee-s-ex-girlfriend-reveals-kelsey-berreth-s-last-n1078236	Non-political
2	www.foxnews.com/opinion/biden-sex-assault-allegation-media-hypocrisy-kavanaugh-tim-graham	Opinion/analysis
2	mmajunkie.usatoday.com/2019/10/ufc-243-free-fight-relive-fight-of-the-year-candidate-between-israel-adesanya-and-kelvin-gastelum	Non-political
2	www.foxnews.com/sports/ohio-state-ryan-day-calls-fiesta-bowl-clemson	Non-political
3	www.cnn.com/videos/world/2019/10/23/protests-lebanon-chile-hong-kong-orig-md-mss.cnn	Video/audio/photo
3	www.cbsnews.com/news/jose-andres-pitch-baseballl-world-series-washington-nationals-booing/	Non-political

Iteration	Item URL	Reason for exclusion
3	www.usatoday.com/videos/sports/golf/whatimhearing/2020/03/13/coronavirus-affects-premiere-golf-tournament/5047861002/	Non-political
3	www.businessinsider.com/personal-finance/student-loan-forbearance-vs-deferment-coronavirus-2020-5	Non-political
3	in.reuters.com/article/ubs-group-russia-moves-idINKBN22O1OX	Non-political
3	www.businessinsider.com/power-moves-of-the-week-intel-shake-shack-credit-suisse-2019-10	Non-political
3	apnews.com/543fc8d6fe36c0f181ad14a85d704f03	Non-political
4	www.foxnews.com/sports/conor-mcgregor-holds-all-the-ufc-cards-after-comeback-win	Non-political
4	www.cnn.com/2019/11/24/investing/stocks-week-ahead/index.html	Non-political
4	feedproxy.google.com/~r/allcnetvideopodcasts/~3/6F- 0Wh6dHPs/NBC_Streaming_v2_SITE_234422_740.mp4	Broken URL
5	apnews.com/3011e7f34c8ef5a5be9a78ae2a992183	Non-political
5	ca.reuters.com/article/businessNews/idCAKBN1WU148-OCABS	Non-political
6	www.cbsnews.com/video/apple-ceo-files-brief-at-supreme-court-supporting-daca/	Video/audio/photo
6	www.bloomberg.com/news/audio/2019-10-18/tesla-plays-gravity-in-woods-high-flying-ark-etf-podcast	Video/audio/photo
7	www.reuters.com/article/us-tennis-wtafinals-idUSKBN1X91S0	Non-political
8	www.reuters.com/article/us-bank-of-america-leadership-idUSKBN20C2EB	Non-political
8	ca.reuters.com/article/technologyNews/idCAKBN1Y217X-OCATC	Non-political

Table 2: Sampling exclusions fact-checks collection

Iteration	Item link	Reason for exclusion
1	www.politifact.com/factchecks/2020/feb/20/blog-posting/death-hoax-about-kobe-bryants-eldest-daughter-spre/	Non-political
1	www.politifact.com/factchecks/2020/jan/06/facebook-posts/soldiers-photo-are-traveling-break-basic-training-/	Video/audio/photo
1	www.politifact.com/factchecks/2019/nov/26/blog-posting/dont-fall-story-mall-santa-beating-child-molester/	Non-political

Iteration	Item link	Reason for exclusion
1	www.politifact.com/factchecks/2020/apr/09/facebook-posts/photos-show-money-streets-venezuela-2019-not-italy/	Video/audio/photo
1	www.politifact.com/factchecks/2019/nov/11/facebook-posts/no-craigslist-ad-offering-pay-trump-support-phony/	Video/audio/photo
1	www.snopes.com/fact-check/trump-discover-know-everything/	Video/audio/photo
1	www.snopes.com/fact-check/white-house-trump_photo-delete/	Video/audio/photo
1	www.snopes.com/fact-check/experts-officials-pandemic-2018/	Reference to other article
1	www.politifact.com/factchecks/2019/dec/10/facebook-posts/celebrity-death-hoax-about-will-smith-and-his-son-/	Non-political
1	www.politifact.com/factchecks/2020/apr/27/facebook-posts/no-proof-mosquitoes-transfer-covid-19-between-peop/	Non-political
1	www.snopes.com/fact-check/buttigieg-dogs-clipping/	Video/audio/photo
1	www.politifact.com/factchecks/2020/feb/29/facebook-posts/no-nancy-pelosi-was-not-escorted-out-restaurant-dr/	Video/audio/photo
1	www.snopes.com/fact-check/joe-biden-corn-dog/	Video/audio/photo
1	www.politifact.com/factchecks/2020/apr/23/facebook-posts/no-democrats-arent-pushing-microchips-fight-corona/	Opinion/analysis
1	www.politifact.com/factchecks/2020/feb/27/blog-posting/no-bernie-sanders-did-not-collaborate-marxist-regi/	Video/audio/photo
1	www.politifact.com/factchecks/2020/feb/20/facebook-posts/starbucks-exec-didnt-say-she-dislikes-white-people/	Reference to other article
1	www.snopes.com/fact-check/trump-biden-coffin/	Video/audio/photo
1	www.politifact.com/factchecks/2019/sep/27/facebook-posts/greta-thunberg-did-not-pose-isis-or-george-soros/	Video/audio/photo
1	www.snopes.com/fact-check/pat-robertson-shooting-up-churches/	Video/audio/photo
2	www.politifact.com/factchecks/2020/mar/23/blog-posting/no-such-thing-free-lowes-coupon-answering-some-que/	Non-political
2	www.snopes.com/fact-check/james-clapper-barack-obama-russia/	Video/audio/photo
2	www.snopes.com/fact-check/monica-lewinsky-trump-tweet/	Video/audio/photo

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Iteration	Item link	Reason for exclusion
2	www.politifact.com/factchecks/2019/dec/10/facebook-posts/social-posts-falsely-connect-trumps-impeachment-bi/	Opinion/analysis
2	www.snopes.com/fact-check/trump-covid19-statements/	Reference to other article
2	www.politifact.com/factchecks/2020/apr/28/facebook-posts/uv-radiation-not-common-way-kill-viruses-and-bacte/	Video/audio/photo
2	www.snopes.com/fact-check/trump-ever-voted-by-mail/	Reference to other article
2	www.snopes.com/fact-check/trump-live-let-die-song-mask/	Video/audio/photo
2	www.truthorfiction.com/ivanka-trump-and-the-alexis-de-tocqueville-quote/	Reference to other article
2	www.politifact.com/factchecks/2020/mar/23/facebook-posts/no-your-census-response-wont-affect-whether-you-ge/	Non-political
2	www.truthorfiction.com/did-mike-bloomberg-say-bernie-sanders-would-have-beaten-trump-in-2016/	politician quote
2	www.politifact.com/factchecks/2020/jan/29/blog-posting/no-msnbc-reporter-was-not-fired-over-viral-live-ai/	Broken URL
3	www.politifact.com/factchecks/2019/oct/30/facebook-posts/no-evidence-cream-tartar-orange-juice-drink-will-h/	Non-political
3	www.politifact.com/factchecks/2019/nov/15/facebook-posts/no-sex-traffickers-arent-using-zip-ties-mark-victi/	Video/audio/photo
3	www.politifact.com/factchecks/2020/jan/02/facebook-posts/social-media-post-recycles-debunked-quotes-joe-bid/	politician quote
3	www.politifact.com/factchecks/2020/feb/29/facebook-posts/no-mountain-dew-isnt-being-canceled-being-bad-you/	Non-political
3	www.politifact.com/factchecks/2020/apr/13/tweets/2016-video-trump-urging-sick-people-vote-resurface/	Video/audio/photo
3	www.politifact.com/factchecks/2020/mar/03/facebook-posts/viral-image-draws-misleading-parallel-between-coro/	Video/audio/photo
4	www.snopes.com/fact-check/tulsi-gabbard-impeachment-vote/	

Iteration	Item link	Reason for exclusion
4	www.politifact.com/factchecks/2019/nov/08/facebook-posts/post-obama-being-furious-about-photo-him-holding-p/	Reference to other article
4	www.politifact.com/factchecks/2020/jan/23/facebook-posts/there-outbreak-china-wuhan-coronavirus-there-not-v/	Video/audio/photo
4	www.politifact.com/factchecks/2020/jan/13/facebook-posts/no-viral-post-isnt-correct-australias-gun-laws-vio/	Video/audio/photo
5	www.truthorfiction.com/mods-are-asleep-post-mike-bloomberg-in-epsteins-black-book/	Video/audio/photo
5	www.truthorfiction.com/are-these-really-donald-trumps-notes/	Video/audio/photo
5	www.truthorfiction.com/andrew-yang-pathway-to-citizenship-make-them-earn-it-policy-statement/	Video/audio/photo
6	www.politifact.com/factchecks/2019/oct/01/blog-posting/clint-eastwood-still-not-dead/	Non-political
6	www.truthorfiction.com/what-is-a-scif-and-why-does-it-matter/	Video/audio/photo

B.4 Final item samples

Table 3: Final sample of Google News items

URL	Item ID
https://www.breitbart.com/entertainment/2020/04/08/don-cheadle-another-trump-presidency-could-end-us-	1
$\mathrm{all}/$	
https://the hill.com/blogs/blog-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-coach-sorry-for-racist-chants-six-people-briefing-room/news/466023-bulgaria-briefing-room/news/466023-bulgaria-briefing-room/news/466023-bulgaria-briefing-briefing-briefing-room/news/466023-bulgaria-briefing-briefing-briefing-bri	2
detained	
https://www.nbcnews.com/politics/trump-impeachment-inquiry/gop-senators-under-pressure-witness-	3
testimony-trump-trial-after-bolton-n1123776	
https://www.reuters.com/article/us-pemex-results-idUSKCN20L2OG	4
https://abcnews.go.com/US/wireStory/aclu-appeals-case-alleging-wv-trans-teen-harassment-69289986	5
https://apnews.com/6be38b474bd64dd6ed7a839294c555cc	6
https://www.businessinsider.com/healthcare-workers-coronavirus-challenges-housing-apartments-2020-4	7
https://abcnews.go.com/International/wireStory/uk-economy-shrinks-quarter-full-lockdown-70652099	8

Table 3: Final sample of Google News items (continued)

10-million-in-coronavirus-relief/ https://www.businessinsider.com/how-nsos-platform-is-helping-countries-track-the-coronavirus-2020-4 https://apnews.com/613a79beaf94ab2943bb9cc91ca61788 https://apnews.com/1dd4abccb2914fdc95357465dcbca089 https://apnews.com/f0004b80dfb84f85934b51c00e92a9ab https://www.nbcnews.com/health/health-news/we-re-not-there-yet-key-steps-reopen-economy-fauci-n1183606 https://uk.reuters.com/article/uk-health-coronavirus-swiss-idUKKBN21G0AS https://www.foxnews.com/media/former-acting-ag-calls-upcoming-ig-report-most-consequential-report-in-many-years https://www.foxnews.com/media/white-house-trade-navarro-trump-jobs-report https://www.foxnews.com/article/us-china-health-australia-idUSKBN1ZT0K4 https://abcnews.go.com/US/explosion-erupts-texas-chemical-refinery/story https://thehill.com/policy/defense/467290-nuclear-command-nominee-sidesteps-questions-on-whether-to-stay-in-arms-control https://uk.reuters.com/article/uk-cambodia-politics-idUKKBN1XL0AQ https://www.nbcnews.com/news/us-news/family-wichita-man-killed-police-swatting-incident-seeking-25-million-n1079836 https://www.reuters.com/article/us-usa-trump-whistleblower-australia-idUSKBN1WH001 https://www.reuters.com/article/us-health-coronavirus-indonesia-cases-idUSKBN22U12J https://apnews.com/b7c48507edd97d13a7f3ab32aeb0815b https://www.newsweek.com/donald-trump-jr-accuses-democrats-using-gestapo-tactics-calls-impeachment-proceedings-1469733 https://apnews.com/9ab735616b5c783faf58ec005394b765		Item ID
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$https://apnews.com/b7c48507edd97d13a7f3ab32aeb0815b\\ https://www.newsweek.com/donald-trump-jr-accuses-democrats-using-gestapo-tactics-calls-impeachment-proceedings-1469733\\ https://apnews.com/4f45cf311abb16d3c9f0b012090e534b\\ https://apnews.com/9ab735616b5c783faf58ec005394b765\\$	s.com/article/us-usa-trump-whistleblower-australia-idUSKBN1WH001	23
$https://www.newsweek.com/donald-trump-jr-accuses-democrats-using-gestapo-tactics-calls-impeachment-proceedings-1469733 \\ https://apnews.com/4f45cf311abb16d3c9f0b012090e534b \\ https://apnews.com/9ab735616b5c783faf58ec005394b765$		24
proceedings-1469733 https://apnews.com/4f45cf311abb16d3c9f0b012090e534b https://apnews.com/9ab735616b5c783faf58ec005394b765	/b7c48507edd97d13a7f3ab32aeb0815b	25
https://apnews.com/4f45cf311abb16d3c9f0b012090e534b https://apnews.com/9ab735616b5c783faf58ec005394b765	eek.com/donald-trump-jr-accuses-democrats-using-gestapo-tactics-calls-impeachment-	26
https://apnews.com/9ab735616b5c783faf58ec005394b765		
- // - /	/4f45cf311abb16d3c9f0b012090e534b	27
1	/9ab735616b5c783faf58ec005394b765	28
https://www.washingtonpost.com/politics/2020/04/02/wealthy-cities-have-more-coronavirus-cases-new-york-poorer-communities-are-more-affected/		29
	,	30

Table 3: Final sample of Google News items (continued)

URL	Item ID
https://thehill.com/policy/finance/471533-harris-waters-release-100-billion-affordable-housing-bill	31
https://apnews.com/99ce3a06c7f12dda3e9cdbb083b81eb8	32
https://www.reuters.com/article/us-health-coronavirus-gilead-pricing-idUSKBN22I2NM	33
https://thehill.com/homenews/administration/492106-white-house-reporter-tests-negative-for-coronavirus	34
https://af.reuters.com/article/worldNews/idAFKBN1WW17J	35
https://www.reuters.com/article/us-russia-shooting-casualties-idUSKBN1YN2DK	36
https://in.reuters.com/article/us-health-coronavirus-stimulus-banks-exc-idINKBN21K075	37
https://apnews.com/8725deb9606e4f54939695afb6e61093	38
https://www.reuters.com/article/us-pakistan-pollution-idUSKBN1XW1G4	39
https://apnews.com/6bdd7209ec32f68868b5aac8f08f13bd	40

Table 4: Final sample of fact-checked items

URL	Item ID
https://www.newsweek.com/ice-fails-redact-document-reveals-location-urban-warfare-training-facility-1458732	41
https://www.facebook.com/WarriorCodeNation/photos/a.1725067604416925/2591241537799523/	42
https://www.theguardian.com/politics/2019/dec/11/boris-johnson-hides-in-fridge-to-avoid-piers-morgan-	43
interview	
https://web.archive.org/web/20190616072052/https://newspunch.com/nicole-kidman-blacklisted-hollywood-support-president/	44
www.truthandaction.org/un-plans-implant-everyone-biometric-id/2/	45
http://archive.is/M7hGS	46
https://www.dailymail.co.uk/news/article-8085175/US-hospitals-prepare-96-MILLION-coronavirus-infections-	47
HALF-MILLION-deaths.html	
https://www.newsweek.com/video-resurfaces-michelle-obama-praising-wonderful-human-being-harvey-	48
weinstein-after-sex-abuse-1488875	

Table 4: Final sample of fact-checked items (continued)

URL	Item ID
https://breakingnewshouse.com/2019/09/06/actor-will-smith-im-not-afraid-to-say-that-trump-and-his-supporters-are-ba/	49
https://edition.cnn.com/2020/01/16/us/missouri-parental-library-oversight-bill-trnd/index.html	50
Re-constructed from https://www.snopes.com/fact-check/bloomberg-political-ads/	51
https://www.facebook.com/photo.php	52
https://twitter.com/soledadobrien/status/1222637252892942338	53
https://ushealthpharma.com/pelosiif-impeachments-fails-i-will-resign-immediately/	54
https://www.newsweek.com/trump-threatens-withdraw-aid-california-wildfires-1469873	55
https://the federal ist.com/2019/09/27/intel-community-secretly-gutted-requirement-of-first-hand-whistleblower-knowledge/	56
https://www.facebook.com/john.morano.96/posts/3413463322015404	57
https://www.newsweek.com/biden-says-over-150-million-americans-killed-gun-violence-since-2007-which-would-third-us-1489115	58
https://dailycaller.com/2019/12/01/biden-children-leg-hair/	59
https://twitter.com/KayaJones/status/1179224969642938368	60
https://www.facebook.com/AP.i.am.awake/photos/a.2273198979374324/3365236183503926/	61
https://www.facebook.com/RealTrumpNation/photos/a.744441295687017/1691648380966299/	62
https://obamawatcher.com/2019/10/george-was-obama-in-disguise/	63
https://newsmag.pro/celebrities-call-for-total-hollywood-strike-until-trump-resigns/	64
https://ktkmediagh.com/trump-announce-name-of-vaccine-to-cure-corona-virus-in-three-hours/	65
https://www.facebook.com/sandra.feno/posts/3869474993092657	66
https://halturnerradioshow.com/index.php/en/news-page/news-nation/virginia-governor-reportedly-orders-plans-to-cut-electric-phones-internet-for-gun-confiscations	67
https://www.facebook.com/AnonymousNewsNetwork/photos/a.790147877730457/2604897786255448/	68
https://www.facebook.com/three.percent.nation/photos/a.182961539037603/452063342127420/	69
https://massachusettsdaily.com/2020/01/06/nancy-pelosi-assures-iran-that-trump-will-pay-for-his-crimes/	70
https://thepoliticalbrief.com/	71
https://www.facebook.com/ben.hart.1042/posts/10157465624892705	72
https://conservativetears.com/2019/12/14/carol-burnette-dead-at-89-a-huge-trump-supporter-lost/	73

Table 4: Final sample of fact-checked items (continued)

URL	Item ID
https://archive.is/LQ7E5	74
https://www.facebook.com/three.percent.nation/photos/a.182961539037603/452063342127420/	75
Re-constructed from https://www.snopes.com/fact-check/coronavirus-doomsday-asteroid/	76
https://www.facebook.com/mickespn/posts/10216441379683361	77
https://www.facebook.com/photo.php	78
https://www.teaparty.org/huge-results-from-breaking-chloroquine-study-show-100-cure-rate-for-patients-infected-with-the-coronavirus-432559/	79
https://archive.is/KKPkd	80

B.5 Ideological valence pre-testing

Ideological valence of the 80 news items was pre-tested between June 19 and 30, 2020 with two different opt-in samples on Prolific and MTurk. To improve quality of raters, MTurk participants had to have voted in the 2016 presidential elections. Prolific raters also had to have indicated "politics" has a hobby, and were recruited so that there was an equal number of moderates, liberals and conservatives.

After giving consent and answering some sociodemographic questions, respondents were introduced to the task with the following text: "We would like you to look at about ten news reports/posts we have found online. For each of them, we would like you to assume that the information is completely accurate, and to answer the following questions: 1) Is this information more favorable to conservatives or liberals or neither group? 2) Is this information more consistent with the beliefs of conservatives, or of liberals, or of neither group? The answer options go from '-2 (liberals)' to '2 (conservatives)'. A good part of the reports/posts might not have such relevance for either side. In that case, do not hesitate to choose '0'!"

In the main task, each respondent saw a random subset of 10 out of the 80 news items. For each item, respondents were asked to respond to two questions: "Assume the above information is entirely accurate. Is it—or was it at the time of publishing—more favorable to liberals or conservatives or neither?" and "Assume the above information is entirely accurate. Is it—or was it at the time of publishing—more consistent with the beliefs of liberals or of conservatives or neither?", both with response scales from "-2 (liberals)" to "2 (conservatives)". After rating the ten items, some more covariates were measured and respondents were debriefed, i.e., received corrections about any false items they saw.

Figure 2 below shows that item-level average ratings are highly correlated both between measures and between samples. Table 5 lists all items along with their truth value, and the average valence rating (number of raters per item and standard error in parenthesis).

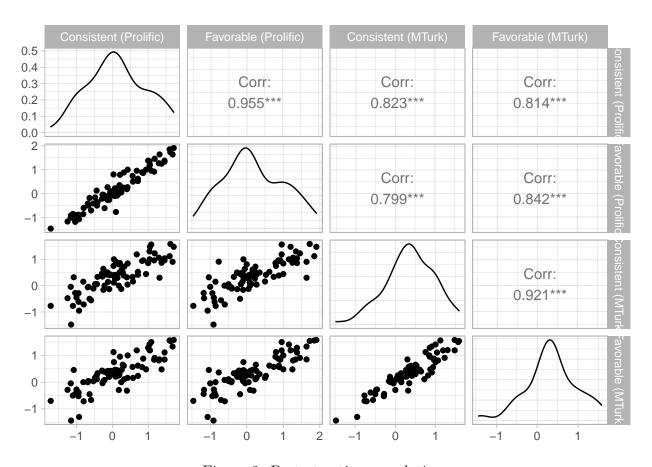


Figure 2: Pretest rating correlations

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
Don Cheadle: 'Another Trump Presidency Could End	1	true	-1.29 (n=56,	-1.12 (n=56,
Us All'			SE=0.17)	SE=0.17)
Bulgaria coach sorry for racist chants, six people	2	true	-0.59 (n=39,	-0.71 (n=38,
detained			SE=0.19)	SE=0.17)
Romney, Collins say Bolton report strengthens case for	3	true	-0.68 (n=53,	-0.83 (n=53,
witnesses, makes them increasingly likely			SE=0.17)	SE=0.18)
Mexico's state-run Pemex posts steep 2019 loss in blow	4	true	0.08 (n=36,	0.03 (n=36,
to president's revival plan			SE=0.13)	SE=0.13)
ACLU appeals in case alleging WV trans teen	5	true	-0.64 (n=47,	-0.55 (n=47,
harassment			SE=0.20)	SE=0.20)
Mexico: More social spending, no big business bailout	6	true	-0.10 (n=38,	-0.08 (n=38,
			SE=0.23)	SE=0.21)
The co-op board of an Upper West Side building turned	7	true	-0.20 (n=45,	-0.02 (n=45,
away a doctor who came to NYC to treat coronavirus			SE=0.15)	SE=0.15)
patients, and it highlights yet another ch				
UK on course for 'significant' recession after March	8	true	$0.20 \ (n=50,$	0.10 (n=49,
slump			SE=0.13)	SE=0.13)
U. of Wisconsin-Madison Furloughs Employees Despite	9	true	0.35 (n=40,	0.32 (n=40,
Accepting \$10 Million in Coronavirus Relief			SE=0.18)	SE=0.19)
Dozens of countries are testing an NSO platform to	10	true	0.09 (n=46,	-0.11 (n=46,
track citizens infected with coronavirus. Here's a sneak			SE=0.14)	SE=0.13)
peak at how it works.				
UConn to propose increased tuition for all students	11	true	0.17 (n=52,	0.12 (n=52,
			SE=0.13)	SE=0.12)
WHO anti-cholera vaccination campaign begins in	12	true	-0.26 (n=43,	-0.02 (n=43,
Sudan			SE=0.16)	SE=0.14)
Man admits attempted arson at Planned Parenthood	13	true	0.44 (n=52,	-0.29 (n=52,
clinic			SE=0.18)	SE=0.19)

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Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
Fauci: 'We're not there yet' on key steps to reopen	14	true	-0.91 (n=46,	-0.65 (n=46,
economy			SE=0.18)	SE=0.19)
Switzerland might increase 20 billion franc emergency	15	true	0.06 (n=47,	0.09 (n=47,
scheme - Finance Minister			SE=0.19)	SE=0.17)
Former acting AG calls Whitaker says upcoming IG	16	true	0.17 (n=53,	0.34 (n=53,
report 'most consequential' in many years			SE=0.21)	SE=0.21)
White House trade adviser touts new jobs report:	17	true	1.30 (n=43,	1.49 (n=43,
Trump is 'focused on job creation every day'			SE=0.15)	SE=0.14)
Australia defends choice of remote detention center to	18	true	0.51 (n=39,	0.18 (n=39,
house locals evacuated from Wuhan			SE=0.16)	SE=0.16)
Explosion erupts at Texas chemical refinery	19	true	-0.16 (n=32,	-0.16 (n=32,
			SE=0.14)	SE=0.17)
Nuclear command nominee sidesteps questions on arms	20	true	0.23 (n=57,	0.07 (n=57,
control treaties			SE=0.16)	SE=0.15)
Cambodian opposition leader meets ambassador after	21	true	0.19 (n=37,	0.18 (n=38,
house arrest lifted			SE=0.16)	SE=0.14)
Family of Wichita man killed by police in swatting	22	true	-0.71 (n=42,	-0.57 (n=42,
incident seeking \$25 million from city			SE=0.16)	SE=0.15)
Australia Foreign Minister says helping White House	23	true	0.26 (n=51,	0.37 (n=51,
probe in national interest			SE=0.18)	SE=0.19)
Indonesia reports 496 new coronavirus infections, 43	24	true	0.11 (n=45,	0.09 (n=45,
deaths			SE=0.12)	SE=0.12)
Mom wants answers after girl taken to mental health	25	true	-0.40 (n=35,	-0.23 (n=35,
center			SE=0.18)	SE=0.19)
Donald Trump Jr. Accuses Democrats of Using	26	true	1.20 (n=50,	1.08 (n=50,
'Gestapo Tactics,' Calls Impeachment Proceedings			SE=0.17)	SE = 0.18)
'Kangaroo Court Stuff'			·	•

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
More than 2 dozen mumps cases seen at University of	27	true	0.00 (n=46,	0.09 (n=46,
Arkansas			SE=0.11)	SE = 0.12)
Coroner: Man found in vacant house died of gunshot	28	true	$0.24 \ (n=37,$	0.11 (n=37,
wounds			SE=0.12)	SE=0.12)
Wealthy cities have more coronavirus cases — but, in	29	true	-0.36 (n=47,	-0.23 (n=47,
New York, poorer communities are more affected			SE=0.16)	SE=0.15)
Data on arthritis drug to treat coronavirus could come	30	true	0.40 (n=50,	0.46 (n=50,
within weeks: Regeneron executive			SE=0.12)	SE=0.12)
Harris, Waters release \$100 billion affordable housing	31	true	-1.20 (n=55,	-1.05 (n=56,
bill			SE=0.17)	SE=0.16)
State places consumption limits on fish caught in	32	true	-0.57 (n=42,	-0.31 (n=42,
Squam Lake			SE=0.16)	SE=0.17)
Will Gilead price its coronavirus drug for public good or	33	true	0.06 (n=48,	-0.04 (n=48,
company profit?			SE=0.16)	SE=0.14)
White House reporter tests negative for coronavirus	34	true	0.23 (n=44,	0.23 (n=44,
			SE=0.15)	SE=0.13)
Brexit deal done - two EU officials	35	true	0.88 (n=34,	0.74 (n=34,
			SE=0.16)	SE=0.18)
Security service employee dead in Moscow shooting:	36	true	0.23 (n=48,	0.21 (n=48,
Interfax cites FSB			SE=0.11)	SE=0.12)
Thousands of U.S. banks may sit out small-business	37	true	0.07 (n=41,	0.17 (n=41,
rescue plan on liability worries: sources			SE=0.15)	SE=0.14)
Vintage WWII fighter plane to fly sightseers over Hawaii	38	true	0.47 (n=47,	0.34 (n=47,
			SE=0.12)	SE=0.13)
Schools shut in Lahore as city chokes in toxic smog	39	true	-0.76 (n=34,	-0.65 (n=34,
			SE=0.18)	SE=0.17)
Hundreds urge lawmakers to keep religious vaccine	40	true	0.45 (n=38,	0.10 (n=38,
exemption			SE=0.22)	SE=0.21)

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
ICE Fails To Properly Redact Document, Reveals	41	true	-0.58 (n=45,	-0.69 (n=45,
Location Of Future 'Urban Warfare' Training Facility			SE=0.17)	SE=0.18)
Bernie Sanders said at the debate last night he wants	42	false	0.46 (n=44,	0.66 (n=44,
minimum wage to be \$15 an hour. 15 \$ x 40 hr work week = \$600 600\$ x 52 weeks per year = \$			SE=0.25)	SE=0.23)
Boris Johnson 'hides in a fridge' to avoid Piers Morgan	43	true	-0.34 (n=41,	-0.44 (n=41,
interview			SE=0.21)	SE=0.22
Nicole Kidman 'blacklisted' from Hollywood for vowing	44	false	0.62 (n=40,	$1.00 \ (n=40,$
to support president			SE = 0.26)	SE = 0.19
The UN Plans To Implant Everyone With A Biometric	45	false	$0.60 \ (n=35,$	0.89 (n=35,
ID			SE=0.26)	SE=0.22)
Judge Rules High School Girls MUST Shower With	46	false	0.45 (n=38,	$0.26 \ (n=38,$
Boys, says Girls Have No Right To Privacy			SE=0.25)	SE=0.26)
Doctor warned US hospitals should prepare for as many	47	false	-0.89 (n=45,	-0.76 (n=45,
as 96 MILLION coronavirus infections and nearly			SE=0.18)	SE=0.17)
HALF A MILLION deaths				
Video Resurfaces of Michelle Obama Praising	48	true	1.15 (n=46,	1.28 (n=46,
'Wonderful Human Being' Harvey Weinstein After Sex			SE=0.19)	SE=0.18)
Abuse Conviction				
ACTOR WILL SMITH: 'I'M NOT AFRAID TO SAY	49	false	-0.74 (n=43,	-0.58 (n=43,
THAT TRUMP AND HIS SUPPORTERS ARE Ba			SE=0.21)	SE=0.23)
A Missouri bill would cut off aid to libraries that allow	50	true	0.62 (n=42,	0.62 (n=42,
kids to access 'age-inappropriate sexual materials'			SE=0.20)	SE=0.20)
Bloomberg spent \$500 million on ads. The U.S.	51	false	-0.19 (n=32,	0.19 (n=32,
population is 327 million. He could have given each			SE=0.23)	SE=0.25)
American \$1 million and still have money left ove				
Joe Biden said: People who have never died before are	52	false	0.34 (n=38,	0.79 (n=38,
now dying from coronavirus.			SE=0.21)	SE=0.21)

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
Trump's 2020 budget includes \$25,000,000,000 in cuts to Social Security.	53	true	0.37 (n=49, SE=0.23)	-0.04 (n=49, SE=0.25)
Pelosi:'If Impeachment Fails, I Will Resign Immediately'	54	false	1.27 (n=41, SE=0.20)	1.20 (n=41, SE=0.20)
Russia Says Trump Once Offered to Help Putin Fight Wildfires—Now He's Threatening to Withdraw Aid From California	55	true	-0.94 (n=48, SE=0.18)	-1.17 (n=48, SE=0.16)
Intel Community Secretly Gutted Requirement Of First-Hand Whistleblower Knowledge	56	false	-0.27 (n=44, SE=0.23)	-0.14 (n=44, SE=0.23)
Staged Event? These officers were involved with something, I'm not sure exactly what, but something is just not adding up. I think there is at the	57	false	0.33 (n=64, SE=0.19)	0.30 (n=64, SE=0.19)
Biden Says Over 150 Million Americans Killed by Gun Violence Since 2007, Which Would Be Half of U.S. Population	58	true	0.35 (n=54, SE=0.20)	0.94 (n=54, SE=0.17)
Biden Described Allowing Children To Play With His Wet Leg Hair In Resurfaced Clip: 'I've Loved Kids Jumping On My Lap'	59	true	0.83 (n=42, SE=0.19)	1.26 (n=42, SE=0.15)
Did you know that if the impeachment reaches the house and passes to the senate and isn't passed the first term is nullified and Trump can run two	60	false	1.21 (n=44, SE=0.16)	1.18 (n=44, SE=0.18)
Anthony Fauci stands to lose 100 million dollars on Bill gates 'vaccine' for the coronavirus. Because he invested in this vaccine. If ever	61	false	1.06 (n=49, SE=0.16)	0.88 (n=49, SE=0.17)
Barack Hussien Obama's real name is: Barry Soetoro. Kamala Harris' real name is: Maya Harrison. Ilha Omar real name is: Ilhan Esmi	62	false	1.24 (n=51, SE=0.14)	1.24 (n=51, SE=0.14)

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
'He's Low Risk,' Said Obama Before Freeing ISIS	63	false	1.60 (n=40,	1.75 (n=40,
Leader Al Baghdadi			SE=0.12)	SE=0.10)
CELEBRITIES CALL FOR 'TOTAL HOLLYWOOD	64	false	-0.44 (n=48,	-0.35 (n=48,
STRIKE' UNTIL TRUMP RESIGNS			SE=0.24)	SE=0.25)
Trump Announce Name Of Vaccine To Cure Corona	65	false	0.93 (n=45,	1.33 (n=45,
Virus In Three Hours			SE=0.17)	SE=0.18)
I just want to share what Goodwill Industries just did	66	false	-0.11 (n=47,	-0.26 (n=47,
to all their employees. They use this pandemic to fire			SE=0.20)	SE=0.18)
all their employees instead of laying				
VIRGINIA GOVERNOR REPORTEDLY ORDERS	67	false	0.21 (n=47,	0.28 (n=47,
PLANS TO CUT ELECTRIC, PHONES, INTERNET			SE=0.25)	SE=0.24)
FOR GUN CONFISCATIONS!				
Do you know what really happens when you donate	68	false	0.21 (n=43,	0.16 (n=43,
your birthday to charity on Facebook?			SE=0.14)	SE=0.12)
In 1988 Iran nearly sank the USS Samuel B. Roberts.	69	true	1.28 (n=39,	1.18 (n=39,
In response Reagan destroyed half of Iran's navy.			SE=0.14)	SE=0.15)
Nancy Pelosi Assures Iran That Trump Will 'Pay For	70	false	0.98 (n=54,	1.09 (n=54,
His Crimes'			SE=0.19)	SE=0.18)
Biden Caught In Damaging Gaffe On Hot Mic – Tells	71	false	1.33 (n=45,	1.69 (n=45,
Men To Marry Into Families 'With 3 Or 4 Sisters'			SE=0.16)	SE=0.10)
Do you wonder why CA only has 559 CV19 deaths	72	false	1.18 (n=62,	1.03 (n=62,
compared to 7,067 deaths in NY? Welp, researchers at			SE=0.15)	SE=0.13)
Stanford's School of Medicine suspect it			,	,
Carol Burnette Dead at 89 – A Huge Trump Supporter	73	false	1.08 (n=39,	0.80 (n=39)
Lost			SE=0.19)	SE=0.20)
Supreme Court Ends Pelosi's Reign Of Terror With	74	false	1.60 (n=53,	1.64 (n=53,
Landmark Decision On Impeachment			SE=0.11)	SE=0.12)

Table 5: Sample of news items: Content, truth, average valence (number of raters per item and standard error in parentheses) (continued)

Headline or first sentence	Item ID	Truth	Valence 'consistent'	Valence 'favorable'
Churchgoers Must Register With the Government in Kansas City	75	false	0.91 (n=54, SE=0.18)	0.87 (n=54, SE=0.18)
The World Deserves the Truth Please brace yourself for the following information I'm about to share with you. It's not going to be easy to unders	76	false	0.58 (n=38, SE=0.17)	0.40 (n=38, SE=0.16)
Check this out! Hospitals get \$750 if you die from the flu, and \$17,500 if you died from COVID-19. Now think about that!	77	false	0.64 (n=42, SE=0.19)	0.69 (n=42, SE=0.17)
SERIOUS EXCELLENT ADVICE by Japanese doctors treating COVID-19 cases. Everyone should ensure your mouth & throat is moist, never DRY. Take a few si	78	false	0.23 (n=51, SE=0.13)	0.22 (n=51, SE=0.14)
Huge! Results From Breaking Chloroquine Study Show 100percent Cure Rate For Patients Infected With The Coronavirus	79	false	1.02 (n=48, SE=0.15)	1.27 (n=48, SE=0.12)
BREAKING: All Big 3 networks ABC, CBS, NBC blacked out Trump defense lawyer Pam Bondi's presentation this afternoon of Ukraine corruption related t	80	false	0.24 (n=45, SE=0.25)	0.20 (n=45, SE=0.26)

C Subject sample

Tables 6 through 9 compares the sample with population statistics on basic sociodemographic variables.

Table 6: Gender distribution of population and sample

		Sample	
Sex	Population percent ^a	Abs.	Percent
Male	49	678	48.71
Female	51	714	51.29

^a Source: U.S. Census Bureau, Current Population Survey, 2018 Annual Social and Economic Supplement, https://www.census.gov/data/tables/2018

Table 7: Age distribution of population and sample

Age group		Sample		
	Population percent ^a	Abs.	Percent	
18-25	11.77	165	11.84	
26-34	16.23	220	15.79	
35-54	34.17	478	34.31	
55-64	17.29	242	17.37	
65+	20.54	288	20.67	

^a Source: U.S. Census Bureau, Current Population Survey, 2018 Annual Social and Economic Supplement, https://www.census.gov/data/tables/2018

Table 8: Education distribution of population and sample

Age group		Sample		
	Population percent ^a	Abs.	Percent	
18-25	11.77	165	11.84	
26-34	16.23	220	15.79	
35-54	34.17	478	34.31	
55-64	17.29	242	17.37	
65+	20.54	288	20.67	

^a Source: U.S. Census Bureau, Current Population Survey, 2018 Annual Social and Economic Supplement, https://www.census.gov/data/tables/2018

Table 9: Partisan distribution of population and sample

Partisanship		Sample	
	Population percent ^a	Abs.	Percent
Democrat Republican	33 26	482 373	34.60 26.78

Non-partisan 37 538 38.62

 $^{\rm a}$ Source: Pew Research Center 2018, https://www.people-press.org/2018/03/20/party-identification-trends-1992-2017/

D Variable measurement

Variable	Question	Choices/Coding
Age Gender	"How old are you?" "What is your gender?"	Number "Male", "Female", Other"
Education	"What is the highest level of school you have completed or the highest degree you have received?"	5 choices from "12th grade without diploma or less" to "Master's degree, professional school degree, or doctorate degree"
Partisanship	"Generally speaking, do you usually think of yourself as a Democrat, a Republican, an Independent, or what?"	"Democrat", "Republican", "Independent", "Other party", "No preference"
Ideology	"Here is a seven-point scale on which the political views that people might hold are arranged from extremely liberal to extremely conservative. Where would you place yourself on this scale?	7-point scale from "Extremely liberal" to "Extremely conservative" and "Haven't thought much about this"
Turnout	"In 2016 Hillary Clinton ran on the Democratic ticket against Donald Trump who ran for the Republicans. Do you remember for sure whether or not you voted in that election?"	"Yes, voted", "No, didn't vote"
Facebook use	"How often do you use Facebook?"	9-point scale from "Many times every day" to "Never" and "I don't have an account"
General media trust	"In general, how much trust and confidence do you have in the mass media – such as newspapers, TV and radio – when it comes to reporting the news fully, accurately, and fairly?"	7-point scale from "0 - none at all" to "6 - a great deal"
Digital literacy	"How familiar are you with the following computer and Internet-related items? Please choose a number between 0 and 6 where 0 represents 'no understanding' and 5 represents 'full understanding' of the item."	Separate 7-point scales for "Pishing", "Hashtag", "JPG", "Malware", "Cache", "RSS"

Variable	Question	Choices/Coding
Economic left-right item 1	"Some people think the government should provide fewer services even in areas such as health and education in order to reduce spending, others feel it is important for the government to provide many more services even if it means an increase in spending. Where would you place yourself on a scale from 1 to 7?"	7-point scale from "0 - Government should provide fewer services" to "6 - Government should provide more services"
Economic left-right item 2	"Some people feel the government in Washington should see to it that every person has a job and a good standard of living. Others think the government should just let each person get ahead on their own. Where would you place yourself on a scale from 1 to 7?"	7-point scale from "0 - Government should let people get ahead on their own" to "6 - Government should see to jobs and living standards"
Social left-right item 2	"There has been some discussion about abortion during recent years. Which one of the opinions below best agrees with your view?"	4 choices from "By law, abortion should never be permitted" to "By law, a woman should always be able to obtain an abortion as a matter of personal choice."
Social left-right item 2	Do you think gay or lesbian couples should be legally permitted to adopt children?	"Yes", "No"
Social left-right item 3	"Do you think it is better, worse, or makes no difference for the family as a whole if the man works outside the home and the woman takes care of the home and family?"	"Worse", "Better", "Makes no difference"
Need for closure item 1	"How disorganized are the rooms that you personally live and work in most?"	7-point scale from "0 - not disorganized at all" to "7 - Extremely disorganized"
Need for closure item 2	"Do you like unpredictable situations or dislike them?"	7-point scale from "0 - dislike unpredictable situations" to "7 - extremely disorganized"
Need for closure item 3 Need for closure item 4	"How many of your important decisions do you make quickly and confidently?" "When you don't understand the reason why something happens in your life, how uncomfortable does that make you feel?"	7-point scale from "0 - None" to "6 - All" 7-point scale from "0 - Not uncomfortable at all" to "6 - Very uncomfortable"

Variable	Question	Choices/Coding
Need for closure item 5	"In the situations when you see two people in a conflict with one another, how often can	7-point scale from "0 - Always" to "6 - Never"
Cognitive reflection item 1	you see how both sides could be right?" "A bat and a ball cost \$1.10 in total. The bat costs \$1.00 more than the ball. How much does the ball cost?"	Open-ended
Cognitive reflection item 2	"In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half of the lake?"	Open-ended
Cognitive reflection item 3	"Emily's father has three daughters. The first two arenamed April and May. What is the third daughter's name?"	Open-ended
Cognitive reflection item 4	"If you're running a race and you pass the person in second place, what place are you in?"	Open-ended
Ethnicity	"Here is a list of five race categories. Please choose one or more races that you consider yourself to be"	"White"," Black or African-American", "American Indian or Alaska Native", "Asian", "Native Hawaiian or other Pacific Islander"
State of residence	"In what U.S. state do you live?"	Choice among 50 federal states and "DC"
Income	"What was your total income in 2019? This figure should include income from all sources, including salaries, wages, pensions, Social Security, dividends, interest, and all other income"	Open-ended

E Differences to pre-registration

Research questions

• Renamed RQ1a from the pre-analysis plan to RQ1; RQ2a to RQ2; RQ2b to RQ3.

Measurement

- Age measured with question "How old are you?" instead of "What is the year of your birth?"
- Gender third option "Other" instead of "Other/Don't want to say"
- State of residence measured with question "In what U.S. state do you live?" instead of "In what state are you registered to vote now?"
- Partisanship measured with question "Generally speaking, do you usually think of yourself as a Democrat, a Republican, an Independent, or what?" instead of "What political party are you registered with, if any?", and only three options.
- Length of media use per day ("On average, how many minutes per day would you say you spent reading, watching, or listening to news about politics?") and relevance of sources ("Which of those sources are your most important sources of news?") was not measured.
- Digital literacy measured on 7-point instead of 5-point scales.
- Third item of economic left-right battery ("We would like you to tell us whether you would like to see spending increased or decreased on aid to the poor") was dropped.
- Need for closure items were measured on end-labelled seven-point scales instead of fully labelled five-point scale
- The outcome (belief) was measured with the question "To the best of your knowledge, how accurate is the information in the above item? 0 means not at all, 6 means completely." from Pennycook and Rand (2020) instead of the question "Do you believe that this information is true? 0 means not at all, 6 means completely."

Analysis

• Instead of clustering standard errors only at the subject level, I also clustered them at the item level. This does not change estimates, but created more conservative standard errors.

F Ideological asymmetries and covariates

F.1 Correlations of ideology and covariates

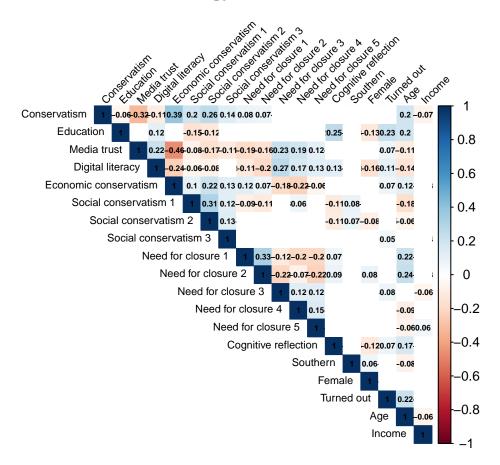


Figure 3: Covariates of individual ideology

F.2 Regressions with covariates

The regression below include interactions with some of the variables shown in Figure 3 above. The left columns of tables 11 and 12 shows the same models as reported in the main text. The middle columns include interactions of the truth or congruence of the news item with all variables correlated to ideology. The rightmost column includes only variables with a significant interaction term, and serves as the basis for the marginal-effects plots. In sum, it shows that none of the measured variables can explain away the ideological asymmetries found. But some variables reveal interesting interactions in themselves: For example, higher age, higher digital literacy and greater media trust all contribute positively to truth discernment, as seen in Figure 4.

Table 11: Truth discernment regression, with covariates

		Belief	
	RQ1	RQ1 with all covariates	RQ1 with significant covariates
Ideology	0.04 (0.03)	0.10*** (0.03)	0.11*** (0.03)
Digital literacy	()	0.02 (0.03)	0.05 (0.03)
Age		-0.02***(0.003)	-0.02***(0.003)
Education		$-0.07 \ (0.04)$	-0.08*(0.04)
Media trust		$0.11^{**}(0.03)$	$0.16^{***} (0.03)$
Econ. conservatism (index)		-0.02(0.04)	,
Soc. conservatism 1		$0.13^{**}(0.05)$	
Soc. conservatism 2		0.34***(0.10)	0.41^{***} (0.09)
Soc. conservatism 3		$-0.01\ (0.07)^{'}$,
Need for closure 1		-0.06*(0.03)	
Need for closure 2		-0.16***(0.03)	-0.20^{***} (0.03)
Need for closure 3		0.07 (0.04)	(= = =)
Need for closure 4		0.11**(0.03)	
Need for closure 5		$0.05 \ (0.04)$	
Item truth	0.92^{***} (0.11)	$-1.03^{*}(0.40)$	-1.47^{***} (0.29)
Truth * Ideology	-0.10**(0.04)	-0.08*(0.03)	-0.09*(0.04)
Truth * Digital literacy	()	$0.12^{***}(0.03)$	$0.11^{***}(0.03)$
Truth * Age		0.02^{***} (0.003)	0.02^{***} (0.004)
Truth * Education		0.11* (0.04)	0.12** (0.04)
Truth * Media trust		0.08*(0.04)	0.07*(0.03)
Truth * Economic conservatism		$-0.03\ (0.04)$, ,
Truth * Soc. conservatism 1		-0.09(0.05)	
Truth * Soc. conservatism 2		$-0.31^{**}(0.11)$	-0.40^{***} (0.10)
Truth * Soc. conservatism 3		0.04 (0.07)	,
Truth * Need for closure 1		$0.06\ (0.03)$	
Truth * Need for closure 2		$0.12^{***}(0.04)$	0.16^{***} (0.03)
Fruth * Need for closure 3		-0.03 (0.04)	,
Truth * Need for closure 4		-0.02(0.03)	
Truth * Need for closure 5		-0.06(0.04)	
Constant	$2.55^{***} (0.09)$	3.09*** (0.38)	$3.77^{***} (0.27)$
Observations	10,431	9,754	10,016
\mathbb{R}^2	0.06	0.17	0.16

Note:

*p<0.05; **p<0.01; ***p<0.001

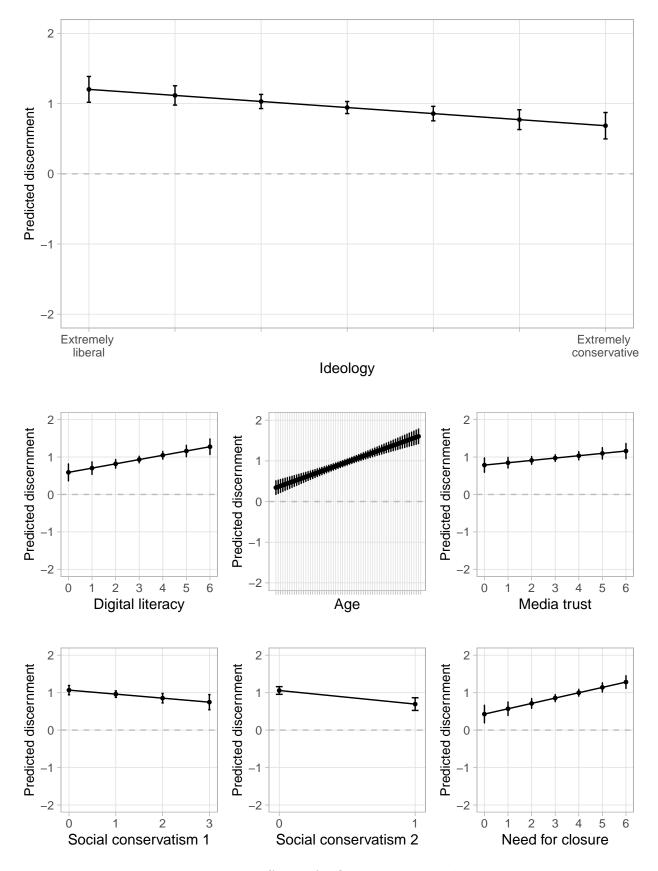


Figure 4: Marginal effects of RQ1 regression with covariates

Table 12: Bias regression, with covariates $\,$

	_	Belief	
	RQ2	RQ2 with all covariates	RQ2 with significant covariates
Ideology	0.04 (0.04)	0.13*** (0.03)	0.07* (0.04)
Digital literacy	, ,	0.08*(0.03)	,
Age		-0.01*(0.003)	-0.01^{***} (0.003)
Education		$-0.04\ (0.04)$, ,
Media trust		$0.18^{***}(0.03)$	
Econ. conservatism (index)		$-0.04\ (0.04)$	
Soc. conservatism 1		0.12*(0.05)	
Soc. conservatism 2		0.14 (0.11)	
Soc. conservatism 3		$0.01\ (0.07)$	
Need for closure 1		-0.03(0.03)	
Need for closure 2		-0.14***(0.03)	-0.19****(0.03)
Need for closure 3		0.04 (0.03)	` ,
Need for closure 4		$0.13^{***}(0.03)$	
Need for closure 5		$-0.03\ (0.03)^{'}$	0.03(0.04)
Item truth	0.17^{**} (0.06)	$-0.80\ (0.49)$	-0.71**(0.27)
Truth * Ideology	-0.15*(0.06)	$-0.20^{***}(0.05)$	$-0.17^{**}(0.06)$
Truth * Digital literacy	, ,	0.03 (0.04)	,
Truth * Age		0.01*(0.003)	0.01 (0.003)
Truth * Education		$0.02\ (0.05)^{'}$	` '
Truth * Media trust		-0.004(0.04)	
Truth * Economic conservatism		$0.03\ (0.05)$	
Truth * Soc. conservatism 1		-0.06(0.06)	
Truth * Soc. conservatism 2		-0.02(0.13)	
Truth * Soc. conservatism 3		-0.004(0.08)	
Truth * Need for closure 1		$0.02\ (0.03)$	
Truth * Need for closure 2		0.09**(0.03)	0.09*(0.04)
Truth * Need for closure 3		0.003(0.04)	,
Truth * Need for closure 4		-0.07(0.04)	
Truth * Need for closure 5		$0.11^* (0.05)$	0.08 (0.05)
Constant	3.14*** (0.08)	2.86*** (0.36)	4.33*** (0.23)
Observations	7,234	6,764	7,226
\mathbb{R}^2	0.01	0.11	0.05

Note:

*p<0.05; **p<0.01; ***p<0.001

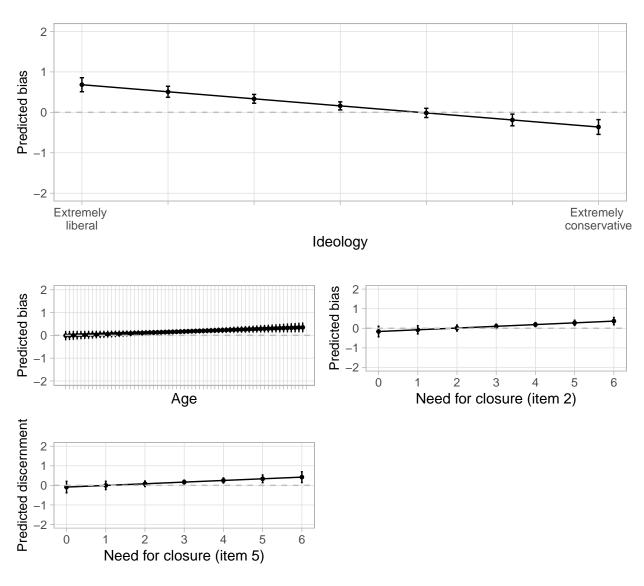


Figure 5: Marginal effects of RQ2 regression with covariates

G Plot of truth discernment-bias interaction (RQ3)

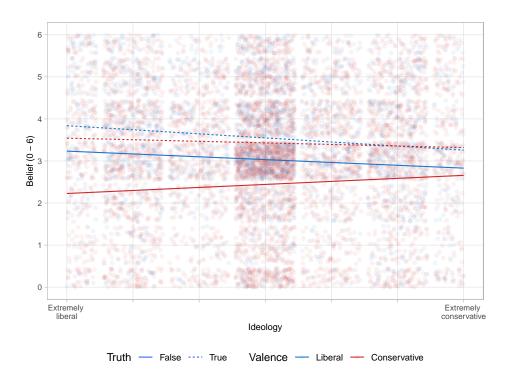


Figure 6: Truth discernment-bias interaction

H Re-estimating truth discernment with a balanced item sample

Instead of balancing the selection of items on some variable deemed relevant ex ante, as many previous studies have done, this study's design attempted to represent the true distribution of such variables in the population by randomly sampling from a larger collection. This also allows to balance on any measured item-level variable ex-post to get estimates similar to studies like Pennycook and Rand (2019). Specifically, such studies commonly select their news stimuli ensuring that there is an equal number (and degree) of false news that are in line with a conservative, and those that are in line with a liberal worldview. Thus, I re-estimate the model for truth discernment, as well as for bias, while varying ideological valence within the news item sample.

H.1 Truth discernment

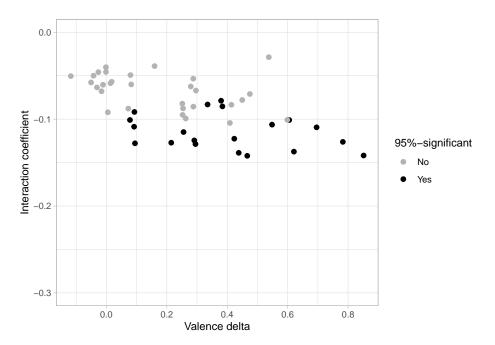


Figure 7: Effect of controlling for valence delta on truth discernment asymmetry

As shown in Figure 2 in the main paper, false items have a valence score that is slightly higher, i.e. more conservative, than true items. I refer to this difference as "valence delta". To understand how results depend more generally on the valence delta, I proceed as follows: Out of the complete sample of 80 items, I sample 20 true and 20 false items 50 times. To vary the extent to which false and true items differ in ideological valence across samples, I set different constraints while sampling: 10 samples are constrained to have a valence delta smaller or equal to zero; 10 samples a delta smaller than 0.1; further 10 a delta smaller than 0.3; further 10 a delta smaller than 0.5; and 10 are sampled with no constraint. For each of these samples, I run the same cluster-robust regression and record the relevant coefficients each time.

Figure 7 shows the truth-ideology interaction coefficient from all these regressions, plotted against the valence delta. Significant cases are colored in dark. As previously, a negative interaction coefficient means that conservatives are less truth discerning. It can be seen that with a small valence delta, the ideological asymmetry indeed decreases, which suggests that supply does matter. Overall, the correlation between valence delta and the regression coefficient is -0.56. However, among the samples with a valence delta around zero, a good part still reveals an asymmetry. These alternative estimates with a valence data of zero are more comparable with studies like Pennycook and Rand (2019). On the one hand, given that imperfectness of my data collection, there may be value in such balancing. On the other hand, it is still unclear what kind of population of information such balanced sub-samples represent. What is more, there are as many ways to conduct such balancing as there are many item-level variables potentially relevant. For example, familiarity with information has been shown to strongly influence belief (Brashier and Marsh 2020).

H.2 Bias

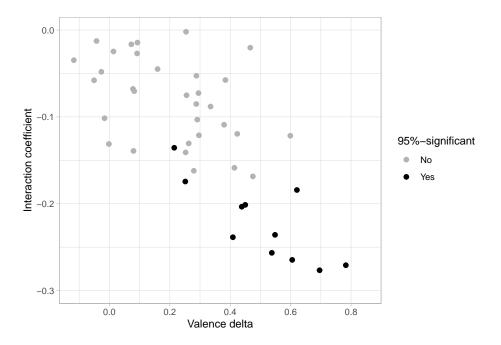


Figure 8: Effect of controlling for valence delta on bias asymmetry

To explore how balancing the sample affects asymmetries in bias, I apply the sample resampling strategy as in the previous subsection. For each of these samples, I run the same cluster-robust regression and record the relevant coefficients each time. Figure 8 shows the truth-ideology interaction coefficient from all these regressions, plotted against the valence delta. Significant cases are colored in dark. A negative interaction coefficient means that conservatives are less biased. It can be seen that with a small valence delta, the ideological asymmetry indeed decreases,. Overall, the correlation between valence delta and the regression coefficient is -0.79.

I Robustness checks

I.1 Continuous congruence variable

Table 13 shows results for RQ2 and RQ3 using a continuous version of the congruence variable, instead of the categorical version.

Table 13: Bias: continuous congruence

	Belief	
	RQ2	RQ3
Ideology	-0.04^{*}	0.003
	(0.02)	(0.04)
Congruence	0.17***	0.16^{*}
	(0.04)	(0.07)
Item truth		0.87***
		(0.12)
Ideology * Congruence	-0.16***	-0.07
	(0.04)	(0.06)
Ideology * Truth		-0.07
		(0.04)
Congruence * Truth		-0.03
		(0.10)
Ideology * Congruence * Truth		0.01
		(0.08)
Constant	3.17***	2.61***
	(0.07)	(0.11)
Observations	10,431	10,431
\mathbb{R}^2	0.01	0.07
Note:	*p<0.05; **p	<0.01; ***p<

I.2 Favorability instead of consistence

Table 14 show results for RQ2 and RQ3 using a the "favorability" instead of "consistence" measure of ideological valuence

Table 14: Bias: congruence with favorable instead of consistent pre-test

	Belief		
	RQ2	RQ3	
Ideology	0.05	0.07	
	(0.04)	(0.06)	
Congruence	0.18**	0.25	
	(0.06)	(0.13)	
Item truth		0.93***	
		(0.13)	
Ideology * Congruence	-0.17^{**}	-0.13	
	(0.06)	(0.10)	
Ideology * Truth		-0.11	
		(0.06)	
Congruence * Truth		-0.17	
		(0.14)	
Ideology * Congruence * Truth		0.10	
		(0.12)	
Constant	3.14***	2.55***	
	(0.08)	(0.12)	
Observations	7,234	7,234	
\mathbb{R}^2	0.01	0.06	
Note:	*p<0.05; **p	*p<0.05; **p<0.01; ***p<0.00	

40

I.3 Including subjects who did not finish

Tables 15 shows results when those who did not finish the questionnaire are included, which gives a sample size of n = 1641.

Table 15: Truth discernment and bias: Including dropouts

	Belief		
	RQ1	RQ2	RQ3
Ideology	0.03	-0.04^*	-0.01
	(0.03)	(0.02)	(0.04)
Item truth	0.89***		0.85***
	(0.10)		(0.11)
Ideology * Truth	-0.09**		-0.06
	(0.03)		(0.04)
Truth * Congruence			-0.02
			(0.10)
Ideology * Truth * Congruence			0.01
			(0.07)
Congruence		0.16***	0.15^{*}
, and the second		(0.04)	(0.07)
Ideology * Congruence		-0.15***	-0.06
		(0.04)	(0.05)
Constant	2.57***	3.17***	2.62***
	(0.09)	(0.06)	(0.10)
Observations	11,075	11,075	11,075
$\frac{\mathbb{R}^2}{}$	0.06	0.01	0.06
Note:	p<0.05;	**p<0.01; **	*p<0.001

I.4 Partisanship instead of ideology

Table 16 shows results for RQ1, RQ2 and RQ3 using partial partial predisposition.

Table 16: Truth discernment and bias: With partisanship

	Belief		
	RQ1	RQ2	RQ3
Partisanship	0.07	0.08	0.33***
•	(0.07)	(0.08)	(0.10)
Report truth	0.88***		0.94***
	(0.11)		(0.10)
Partisanship * Truth	-0.18^*		-0.45***
•	(0.07)		(0.11)
Congruence * Truth			-0.17
			(0.13)
Partisanship * Congruence * Truth			0.54**
. 0			(0.18)
Congruence		0.13*	0.24*
		(0.06)	(0.11)
Partisanship * Congruence		-0.30^{*}	-0.55***
		(0.12)	(0.15)
Constant	2.56***	3.13***	2.55***
	(0.09)	(0.08)	(0.08)
Observations	11,125	7,234	7,234
\mathbb{R}^2	0.06	0.01	0.07

Note:

*p<0.05; **p<0.01; ***p<0.001