Everyone I don't like is biased: Affective evaluations and the bias blind spot

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Abstract

People commonly exhibit a bias blind spot (BBS), judging themselves as less susceptible to bias than the "average other." However, less is known about how people attribute bias to familiar others who evoke strong affect. We examined whether attributions of bias are sensitive to affective impressions of others. In Experiment 1, participants viewed themselves as considerably less biased than the average survey respondent and a personally-known disliked other but not less biased than a familiar individual whom they liked. Experiments 2 and 3 examined the BBS in politically polarized groups of Democrats and Republicans. While participants judged themselves as somewhat less biased than co-partisans, they viewed themselves as much less biased than political opponents. In all experiments, the effect of other target selection on the BBS was mediated by affective evaluations. We discuss the theoretical implications of people using affective evaluations as heuristic cues when attributing bias to familiar others.

Keywords: bias blind spot, affect, interpersonal perception, intergroup conflict, political polarization

Introduction

Psychologists have documented numerous biases that distort human judgment, both within the social (Nisbett & Ross, 1980; Nisbett & Wilson, 1977) and cognitive domain (Tversky & Kahneman, 1974). While people readily recognize these biases in others, they often fail to perceive the same biases in themselves (Pronin et al., 2002). This *bias blind spot* often undermines judgment quality, as people fail to correct for biases that they do not know they have (Scopelliti et al., 2015). Furthermore, viewing oneself as objective while accusing others of bias can promote negative interpersonal interactions, facilitating feelings of distrust and impeding conflict resolution (Kennedy & Pronin, 2008; Pronin, 2008). Thus, the bias blind spot, in which people judge themselves as exhibiting less bias than their peers, represents an important meta-bias, one that can hinder judgment and provoke conflict.

Bias blind spots have been attributed to two complementary mechanisms (Pronin et al., 2004; Pronin, 2007, 2008): (1) people's belief that they objectively perceive reality (i.e., naïve realism; Griffin & Ross, 1991; Ross & Ward, 1996), and (2) self-other asymmetries in the value[1] given to introspective evidence (Pronin & Kugler, 2007). Believing that we objectively perceive reality leads us to assume that the beliefs of others will correspond with our own "objective" assessments. When this assumption is proven false, people tend not to question the objectivity of their judgments, instead attributing a lack of information or even bias to individuals with opposing views. Self-other asymmetries regarding the value given to introspective evidence support the perception of an objective self in a world of biased others. The cognitive processes that engender psychological biases are thought to be nonconscious and, as such, inaccessible to introspection (Wilson & Brekke, 1994; Wilson et al., 2002). Still, people tend to value

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[1] Relevant to this self-other asymmetry in *value* is the self-other asymmetry in *access* to introspective evidence, with people able to directly probe their own but not others' introspections.

introspective evidence when assessing their own (but not others') biases. Failing to find evidence of bias when consulting introspection, people are inclined to conclude that their judgments were unaffected by bias. Conversely, when assessing bias in others, people tend to use a different strategy, examining people's *behavior* for evidence of bias (Pronin et al., 2004). Due to the presumed nonconscious nature of many biases, this self-other asymmetry in *strategies* for assessing bias has been theorized to produce self-other asymmetries in *attributions* of bias that reflect a bias blind spot.

Much of the literature surrounding the bias blind spot has investigated the tendency for people to rate themselves as less biased than a hypothetical "average other" (e.g., the average American). Therefore, the extent to which people view themselves as less biased than their friends, family members, or enemies is less clear. Much evidence demonstrates the significant role of affect in human judgment (Lerner et al., 2015; Slovic et al., 2007). Affective reactions are generated quickly and automatically (Bargh et al., 1992; Zajonc, 1980), and guide how people attend to, encode, and interpret various events (Baumeister & Newman, 1994). Positive affect towards oneself and well-liked others (e.g., friends and family) may serve as a heuristic cue facilitating attributions of objectivity. Conversely, negative affective impressions may lead people to quickly discount disliked individuals as biased. In either case, people can rely on readily available affective impressions to quickly and efficiently attribute bias to themselves and familiar others, with more cognitively taxing introspective and behavioral observation strategies, if engaged in, being swayed by and serving to justify initial affect-based judgments. Thus, independent of potential self-other asymmetries in individuals' cognitive *strategies* for assessing bias, when evaluating the biases of familiar others, readily available affective impressions may shape bias attributions. Nevertheless, the role of affect in attributions of bias, and consequently,

the bias blind spot, is poorly understood. Do people view themselves as less biased than individuals they like? Do negative feelings towards a disliked group facilitate the view that members of this group are biased? The current research addressed these questions.

The Current Research

The tendency for people to view themselves as less biased than an "average other" is well-established (Pronin & Hazel, 2023). However, less is known about how people attribute bias to familiar others with whom they have positive or negative feelings. In Experiment 1, participants judged the extent to which they and either a liked well-known other, a disliked well-known other, or the average survey respondent exhibited various psychological biases. We hypothesized that participants' attributions of bias would be sensitive to their affective evaluations of a target other. Therefore, we predicted that participants would attribute less bias to a liked well-known other than a disliked well-known other or the average survey respondent. Consequently, we anticipated that participants' bias blind spots would be reduced or even eliminated when randomly assigned to evaluate the biases of a well-liked individual, raising the possibility that this robust meta-bias may not extend to the positively-valenced relationships common in everyday social life.

Like interpersonal contexts, intergroup conflict can evoke strong affective judgments typified by in-group love and out-group hate (Finkel et al., 2020). The extent to which affective evaluations guide attributions of bias is an important question, as viewing out-group members as biased can exacerbate group conflict (Kennedy & Pronin, 2008; Pronin et al., 2006). In Experiments 2 and 3, we leveraged Democrats' and Republicans' negative feelings towards one another and positive sentiments towards co-partisans (Iyengar et al., 2019) to assess the role of affect in attributions of bias within a polarized group context. Specifically, we recruited

Democrats and Republicans and had them judge the extent to which they and the average

Democrat and Republican exhibited different psychological biases.[2] We hypothesized that

participants would attribute more bias to the average political out-group member than in-group

member, resulting in participants exhibiting larger bias blind spots when political out-group

members were the focal "other." Additionally, we hypothesized that affective feelings toward

target others would guide attributions of bias. As such, we predicted that more positive affective

evaluations of in-group members would be associated with partisans' failing to perceive bias in

their political in-group, whereas more negative affective evaluations of out-group members

would be associated with partisans' attributing more bias to their political opponents. Taken

together, the present work investigates the extent to which affective impressions guide

attributions of bias towards familiar others and, consequently, impact the magnitude of

individuals' bias blind spots within interpersonal and intergroup contexts.

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Experiment 1

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Method

Participants

      Six hundred and sixty participants were recruited from Prolific, an online research

platform. To be eligible to participate in this study, participants were required to: (1) self-report

an age between 18 and 60 years old, (2) self-report English as their first language, (3) reside in

the United States, United Kingdom, Canada, Australia, or New Zealand, (4) have completed

between 100 and 10,000 work submissions on Prolific, and (5) possess a Prolific submission

approval rating greater than or equal to 95%. Participants received $4.50 USD upon completion

of a 25-minute online questionnaire. We collected a sample size of 660 participants for each

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[2] Note that these biases were (largely) non-political in nature such that they pertained to general psychological tendencies (e.g., action-inaction bias) as opposed to, for example, the partisan treatment of political information.

experiment with the goal of retaining data from at least 600 participants following pre-registered

exclusions. This sample size was chosen on the basis of prior work on the bias blind spot

(Mandel et al., 2022) with sensitivity power analyses using G*Power (Faul et al., 2007) revealing

that this sample provided at least 80% power to detect a minimum effect size of $\eta_p^2 = .113$ for

the conducted mixed ANOVAs and $d = 0.28$ for follow-up independent samples t-tests. We

excluded data from 27 participants based on a set of pre-registered exclusion criteria (see *Data*

Preparation below), leaving data from 633 participants (49% Female; $M_{age} = 38.76$, $SD_{age} =$

11.37; 81% British, 7% Canadian, 3% American, 9% Other; 78% College educated). All

experiments were reviewed and received ethics approval from the Defence Research and

Development Canada Human Research Ethics Committee.

Measures and Materials

Bias Blind Spot. Participants completed a bias blind spot task adapted from Scopelliti

and colleagues (2015). For this task, they were presented with descriptions of 14 biases (see

Table 1) and asked to evaluate the extent to which they (Self block) and a target other (Other

block) exhibited each bias. Specifically, on each trial, participants were presented with a

description of a bias (referred to as an effect or tendency) and asked, "To what extent do you

believe that [you/the average survey respondent/the person you know well and personally]

show[s] this effect or tendency?" Responses to this question ranged from 1 (*Not at all*) to 7 (*Very*

much). Consistent with prior work (Scopelliti et al., 2015), this 14-item measure demonstrated

good internal consistency ($\alpha = 0.82$), supporting item aggregation. We calculated a bias blind

spot score for each participant by subtracting their mean Self judgment from their mean Other

judgment. As such, positive scores reflected the belief that a target other exhibits the described

biases more than oneself.

Table 1

Study Materials: Bias Blind Spot Task

Item	Description	Bias
1	People tend to judge a harmful action as worse than an equally harmful inaction. ...	**Action-inaction Bias**
2	People tend to do or believe a thing only because many other people believe or do that thing, to feel safer or to avoid conflict.	**Bandwagon Effect**
3	People tend to show a "disconfirmation" tendency in the way they evaluate research about dangerous habits. That is, they are more critical and skeptical in evaluating evidence that an activity is dangerous when they engage in that activity than when they do not.	**Disconfirmation Bias**
4	People tend to make irrational decisions to justify actions they have already taken. ...	**Escalation of Commitment**
5	People tend to exhibit an aversion to learning about potential losses. For example, people may try to avoid bad news by ignoring it.	**Ostrich Effect**
6	People tend to show a "self-interest" effect in the way they view political candidates. That is, people's ... judgments about the extent to which particular candidates would pursue policies good for the American people ... tend to be influenced by their feelings about whether the candidates' policies would serve their own particular interests.	**Self-Interest Bias**
7	People tend to show a "self-serving" tendency in the way they view their job performance. That is, they tend to take credit for success but deny responsibility for failure. ...	**Self-Serving Bias**
8	People tend to react to counter-evidence by strengthening their beliefs. ...	**Confirmation Bias**
9	People tend not to help in an emergency situation when other people are present. ...	**Diffusion of Responsibility**
10	People tend to make "overly dispositional inferences" in the way they view victims of assault crimes. That is, they are overly inclined to view the victim's plight as one he or she brought on by carelessness, foolishness, misbehavior, or naiveté.	**Fundamental Attribution Error**
11	People tend to show a "halo" effect in the way they form impressions of attractive people. For instance, when it comes to assessing how nice, interesting, or able someone is, people tend to judge an attractive person more positively than he or she deserves.	**Halo Effect**
12	People tend to possess an unconscious, automatic tendency to be less generous to people of a different race than to people of their race. ...	**Ingroup Favoritism**
13	People tend to underestimate the impact or the strength of another person's feelings. For example, people who have not been victims of discrimination do not really understand a victim's social suffering and the emotional effects of discrimination.	**Projection Bias**
14	Gender biases tend to lead people to associate men with technology and women with housework.	**Stereotyping**

Note. Bias Blind Spot items. Participants read descriptions of psychological biases and judged the extent to which they and a target other exhibited each bias. Some item descriptions are shortened within this table for presentation purposes. The exact wording of each item can be viewed in the Supplementary Materials (Part A). Participants viewed all 14 items in Experiment 1, but only items 1-7 in Experiments 2 and 3.

Bias Assessment Strategy. Using a methodology adapted from prior work (Pronin & Kugler, 2007),[3] we assessed the extent to which participants endorsed using different strategies when judging the biases of themselves and others. Participants were asked: "When I rated the extent to which [I/the average survey respondent/the person I know well and personally] exhibited a psychological effect or tendency, I answered mainly based on:" and endorsed one of three presented strategies. These strategies included a strategy based on introspection, one based on behavior observation, and another based on declarative knowledge.

Affect. We assessed participants' affective feelings towards each target with the question: "How do you feel about [yourself/people in general/the person you know well and personally]?" We also measured participants' perceptions of how the average survey respondent (i.e., "people in general") or a well-known other feels about them.[4] Responses to both questions were provided on a 7-point scale that ranged from -3 (*Extremely negative*) to +3 (*Extremely positive*).

Design and Procedure

Experiment 1 used a block design for which participants evaluated the extent to which they (Self block) and a target other (Other block) exhibited various biases, with block order counterbalanced. Each block began with 14 bias blind spot trials and concluded with participants responding to strategy and affect-related questions. Random assignment determined whether participants assessed the biases of the average survey respondent, a liked well-known other, or a disliked well-known other during the Other block. Participants assigned to evaluate the biases of

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[3] Relative to prior work, methodological differences included instructing participants to select the strategy they relied on most (rather than have them rate the extent to which they used each strategy), minor wording adjustments to the introspection and behavioral observation strategy options, and the addition of a declarative knowledge option.
[4] This question regarding participants' meta-perceptions (perceptions of others' perceptions) was motivated by prior work demonstrating the importance of individuals' meta-perceptions in the political realm (Fernbach & Van Boven, 2022). Specifically, this research finds that political partisans' tend to overestimate the amount of dislike rival partisans feel towards them, with negative meta-perceptions being linked with ideological extremity and anti-democratic attitudes (Lees & Cikara, 2020; Moore-Berg et al., 2020).

a well-known other were asked to think about a person they knew well and personally whom they felt either positively or negatively towards, depending on their condition.

Data Preparation

We excluded data from 27 participants who indicated that English was not their first language ($n = 2$), reported problems viewing study materials ($n = 7$), selected a different imagined well-known other before and during the bias blind spot task ($n = 9$), or completed Experiment 1 in under 500 seconds ($n = 10$).[5] These exclusions were consistent with pre-registered criteria.

Transparency and Openness

For all experiments, we collected our full sample prior to data analyses and report how we determined our sample size, all data exclusions, all manipulations, and all measures used. All measures and materials presented in the current study can be viewed in the supplementary materials (Part A).[6] Data and analyses scripts (i.e., annotated R scripts) pertaining to each experiment are available on Open Science Framework

(https://osf.io/czvgy/?view_only=678bb21ecd034b578ca190d891079a0a). Data were analyzed using R, version 4.3.1 (R Core Team, 2023). All experiments were preregistered through Open Science Framework. These pre-registrations can be viewed via the following links (Exp. 1: https://osf.io/cpxgw/?view_only=cfdf1ad401884db0aae6b44aa39fbdc0; Exp. 2: https://osf.io/d3tm5/?view_only=9a061ed2d6f94e3b843e80ed4f8f3fe4; Exp. 3: https://osf.io/rhzqk/?view_only=82f281d2acd1456483ac0bedb9330566). We describe minor deviations from these pre-registrations in the supplementary materials (Part B).

Results and Discussion

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[5] Note that one participant exhibited multiple grounds for exclusion.
[6] For the purpose of brevity, some measures are reported exclusively in the supplementary materials (Part A).

Participants demonstrated a bias blind spot, judging themselves ($M = 3.56$, $SD = 0.90$) as less biased than a target other ($M = 4.31$, $SD = 1.03$), $t(632) = 17.14$, $p < .001$, $d = 0.77$, 95% CI [0.65, 0.89]. This pattern was observed consistently at the item-level: participants exhibited a bias blind spot on 13 of the 14 bias blind spot items[7] (all $ps < .001$, all $ds > 0.21$). Critically, we assessed the degree to which participants' bias blind spots differed as a result of the target other they evaluated. This allowed us to test whether people view themselves as less biased not only than the hypothetical average person, but also relative to familiar individuals within their real-world social networks. A mixed ANOVA featuring Target (Self vs. Other) as a within-subjects factor and Other Reference Group (Average survey respondent vs. Liked well-known other vs. Disliked well-known other) as a between-subjects factor revealed a Target by Other Reference Group interaction, $F(2, 630) = 104.63$, $p < .001$, $\eta_p^2 = .249$ (see Figure 1). While we observed small differences in bias evaluations of the self across Other Reference Group (all $ds < 0.33$), considerably less bias was attributed to liked well-known others ($M = 3.50$, $SD = 0.93$) compared to disliked well-known others ($M = 4.69$, $SD = 0.89$), $t(417) = 13.25$, $p < .001$, $d = 1.29$, 95% CI [1.08, 1.51], and the average survey respondent ($M = 4.72$, $SD = 0.77$), $t(422) = 14.71$, $p < .001$, $d = 1.43$, 95% CI [1.21, 1.64].[8] Consequently, participants evaluating the biases of the average survey respondent ($M = 1.00$, $SD = 0.97$) or a disliked well-known other ($M = 1.25$, $SD = 1.04$) displayed large bias blind spots ($p < .001$ and $d > 1.19$ in both cases). Conversely, participants did not display a bias blind spot when evaluating the biases of a liked well-known other ($M = -0.02$, $SD = 0.83$), $t(209) = -0.27$, $p = .784$, $d = -0.02$, 95% CI [-0.14, 0.11]. These results suggest

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[7] Participants did not endorse exhibiting less *diffusion of responsibility* bias than a target other, $t(632) = 1.61$, $p = .109$, $d = 0.08$, 95% CI [-0.02, 0.17], and thus did not exhibit a bias blind spot for this item. A full breakdown of exploratory item-level analyses for each experiment is provided in Part E of the supplementary materials.
[8] This finding generalized across biases as, for all 14 bias blind spot items, liked well-known others were judged as exhibiting the described bias less than disliked well-known others (all $p < .013$) and the average survey respondent (all $p < .001$).

that the widely documented bias blind spot does not extend to a meaningful class of social

comparisons—those involving well-liked familiar others. As such, in many real-world

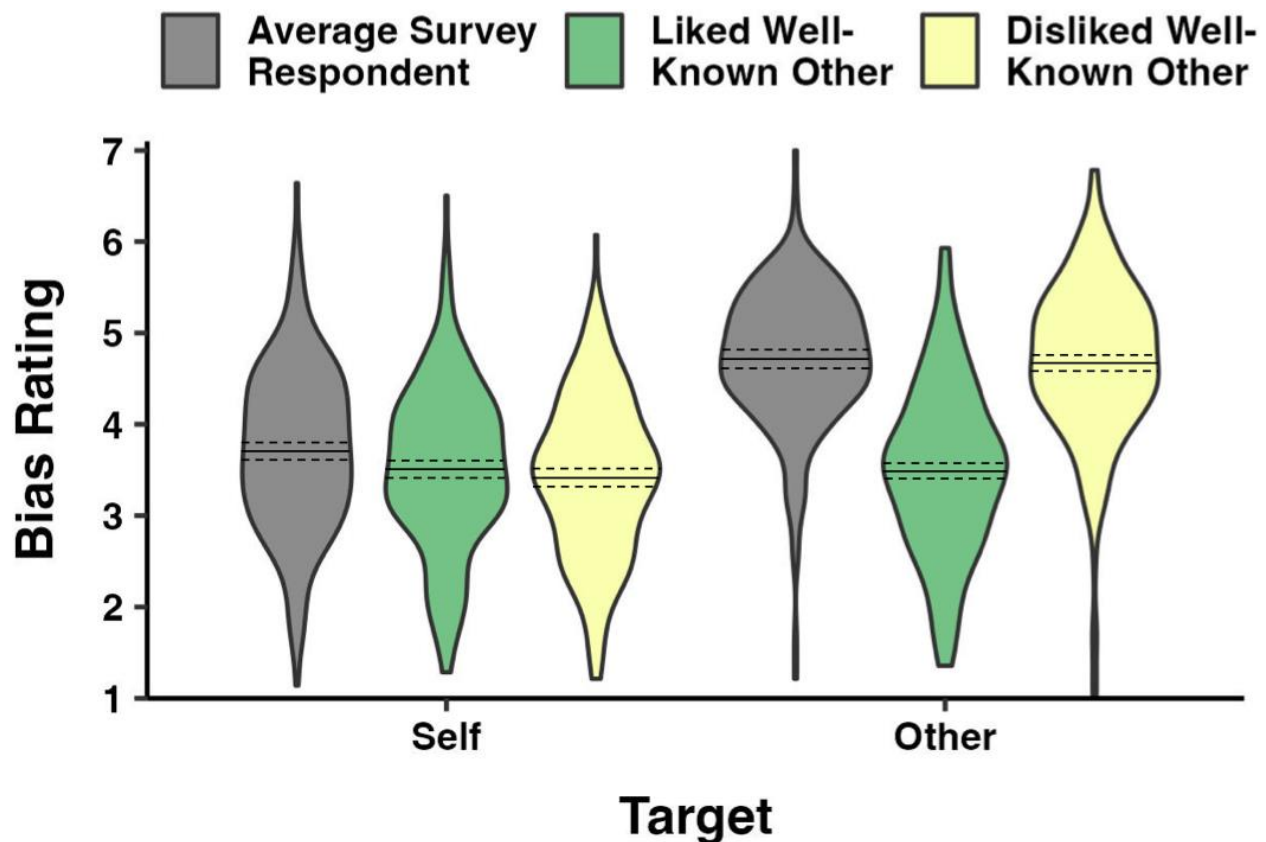relationships, people may not see themselves as uniquely free from bias.

Figure 1. Experiment 1 Results: Bias Attributions. This figure displays the distribution of participants' mean bias ratings for each Target and Other Reference Group condition. Solid lines represent the mean bias rating within a condition while dashed lines represent the 95% confidence interval.

Affective Evaluations Are Linked to Bias Attributions

Next, we tested whether participants' affective evaluations were associated with their

attributions of bias. As expected, we observed a strong negative correlation between participants'

affective evaluations of a target other and the magnitude of their bias blind spot, $r(631) = -.52$, p

$< .001$. Notably, this negative association was observed not only across conditions but also

within each experimental group: Average survey respondent, $r(212) = -.23$, $p < .001$; Liked well-

known other, $r(208) = -.18$, $p = .010$; Disliked well-known other, $r(207) = -.31$, $p < .001$.

Regardless of the target other being evaluated, the more positively participants felt toward the

target, the less bias they ascribed to them, $r(631) = -.50$, $p < .001$, and consequently, the smaller

their bias blind spots. Furthermore, participants' *perceptions* of how a well-known other felt

about *them* were also negatively correlated with their bias blind spot scores, $r(417) = -.46$, $p <$

.001. Specifically, the more participants believed a well-known other viewed them negatively,

the more bias they attributed to this familiar individual, $r(417) = -.52$, $p < .001$. Finally, we

observed a small correlation between participants' feelings toward themselves and their self-

rated bias, $r(631) = -.10$, $p = .013$, with those reporting more positive feelings toward themselves

tending to view themselves as less biased. This modest correlation with reference to the self was

significantly smaller than the former correlation which referenced the other, $z = -7.52$, $p < .001$,

suggesting that it is affective evaluations of others rather than oneself that modulates the bias

blind spot.

How Do Affective Feelings Influence Bias Attributions?

The results of Experiment 1 demonstrate that people do not perceive themselves as less

biased than individuals who are familiar to them and whom they like. This finding, along with

the observed associations between affective feelings and attributions of bias, suggest that

affective impressions shape how people perceive bias in others. However, the mechanism by

which affect exerts this influence remains unclear. A prominent account of the bias blind spot—

known as the *introspection illusion hypothesis*—proposes that individuals rely on introspective

evidence when evaluating their own biases but focus more on observable behavior when judging

the biases of others (Pronin, 2007, 2008). This self-other asymmetry in bias assessment strategies

is thought to underlie, at least in part, self-other asymmetries in bias attributions. Accordingly,

we examined whether participants' affective impressions of target others were related to the

strategy they endorsed using to assess those individuals' biases.[9] If people are more inclined to

consider the presumed thoughts and intentions of well-liked others when evaluating their

susceptibility to bias, this may help explain *why* affective impressions shape bias attributions.

Participants' affective evaluations of a target other were linked to the strategy they

reported using to judge this target's biases. Specifically, participants reported more positive

feelings toward a target when they endorsed an introspection-based strategy ($M = 0.86$, $SD = $

1.73) compared to a behavioral observation strategy ($M = 0.38$, $SD = 2.14$), $t(580) = 3.05$, $p = $

.002, $d = 0.24$, 95% *CI* [-0.08, 0.40]. However, contrary to the idea that affective impressions

shape attributions of bias by shifting assessment strategies, participants were more likely to

report using an introspection strategy when attributing bias to the average survey respondent

(57.84%) than a liked well-known other (34.76%), $\chi^2 = 21.26$, $p < .001$—despite attributing

significantly *more bias* to the former. More generally, participants' self-reported strategies were

largely inconsistent with the introspection illusion account. For example, while a majority of

participants (61.51%) endorsed a behavior observation strategy when assessing the biases of a

target other, $\chi^2 = 32.93$, $p < .001$, they did not favor an introspection strategy (Behavior: 51.03%

vs. Introspection: 48.97%) when attributing bias to themselves, $\chi^2 = 0.27$, $p = .604$. Relatedly,

use of an introspection strategy was not associated with attributions of bias regarding oneself or a

target other, $r < .04$, $p > .320$

Taken together, these findings suggest that affective evaluations do not shape bias

attributions by altering the strategy people use to assess bias in others, with participants'

endorsed strategy sharing no relation to their bias attributions. Rather, we find that participants'

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[9] Analyses examining participants' bias assessment strategies removed instances in which participants endorsed a declarative knowledge strategy as a) this strategy was endorsed by only a handful of participants (Exp. 1: $n = 12$; Exp 2: $n = 41$) and b) was not pertinent to the claims assessed here.

affective evaluations, particularly toward target others, predict the strength of their bias blind spots independent of the strategy used to assess bias (see Table 2). Therefore, the results of Experiment 1 are consistent with a novel account of the bias blind spot, in which readily available affective impressions act as heuristic cues that guide attributions of bias, leading people to perceive themselves and individuals they like as objective while viewing others, particularly those whom they dislike, as biased.

Table 2

Affective Evaluations Predict Bias Blind Spot Scores

Predictor	b	95% CI	β	t	p
Intercept	0.85	[0.77, 0.94]	-	20.35	< .001
Affect (Self)	0.08	[0.03, 0.13]	0.11	3.32	< .001
Affect (Other)	-0.29	[-0.33, -0.25]	-0.53	-15.56	< .001
Strategy (Self)	0.14	[-0.01, 0.28]	0.06	1.84	.066
Strategy (Other)	0.13	[-0.03, 0.28]	0.06	1.64	.102

Note. $N = 621$; $df = 616$. Results from a multiple linear regression predicting participants' bias blind spot scores from their affective evaluations of the self and a target other, as well as their self-reported bias assessment strategy for each target. Strategy use was dummy-coded such that participants who reported using an introspection-based strategy were coded as 0, and those using a behavioral observation strategy were coded as 1. Model Summary: $R^2 = 0.30$, $F(4, 616) = 65.37$, $p < .001$.

Experiment 2

Experiment 2 investigated the role of affective evaluations in attributions of bias within a polarized group context. Instead of manipulating affect directly, we utilized Democrats' and Republicans' positive affect towards in-group members and negative affect towards out-group members (Iyengar et al., 2019). We hypothesized that partisans would judge political out-group—compared to in-group—members as more susceptible to a host of psychological biases, and thus display larger bias blind spots when assessing bias in rival partisans. Furthermore, we

hypothesized that the effect of other reference group (in-group vs. out-group member) on

partisans' bias blind spots would be mediated by their affective evaluation of a target other.

Thus, we expected stronger positive affect towards one's in-group to be associated with partisans

viewing in-group members as less biased and stronger negative affect towards one's out-group to

be associated with partisans attributing more bias to their political opponents.

Method

Participants

We recruited a sample of 660 participants from Prolific using the same recruitment

criteria as Experiment 1 with the exception that all participants were required to reside in the

United States and self-report their political affiliation as either Democrat or Republican.

Participants received $4.50 USD upon completion of a 25-minute online questionnaire. We

excluded data from 34 participants based on pre-registered exclusion criteria, leaving data from

626 participants (51% Female; $M_{age} = 39.77$, $SD_{age} = 11.12$; 50% Democrat; 68% College

educated) to be analyzed.

Measures and Materials

Bias Blind Spot. People are less likely to acknowledge exhibiting biases that they

perceive as socially undesirable (Pronin et al., 2002). As such, we conducted a pilot study (see

Supplementary Materials Part D for a full report) to ensure that Democrats and Republicans

viewed all biases described in Experiment 2 as similarly "bias-like" and negative (i.e., socially

undesirable). The results of this study revealed that Democrats viewed the described biases

(adapted from Scopelliti et al., 2015) more negatively than Republicans ($p < .001$, $d = 0.85$;

Figure 2A). Item-level analyses showed significant partisan differences for 7 (out of 14) bias

blind spot items.[10] Based on these findings, we selected seven bias blind spot items (Items 1-7 in

Table 1) for inclusion in Experiment 2, each of which was rated as similarly "bias-like" and

negative by Democrats and Republicans. Aggregated responses across these seven items

revealed no significant partisan differences in bias categorization ($p = .605$, $d = 0.10$) or affect

judgments ($p = .091$, $d = 0.34$; Figure 2B). Furthermore, the resulting 7-item, non-partisan bias

blind spot measure showed acceptable internal consistency ($\alpha = 0.75$), supporting item
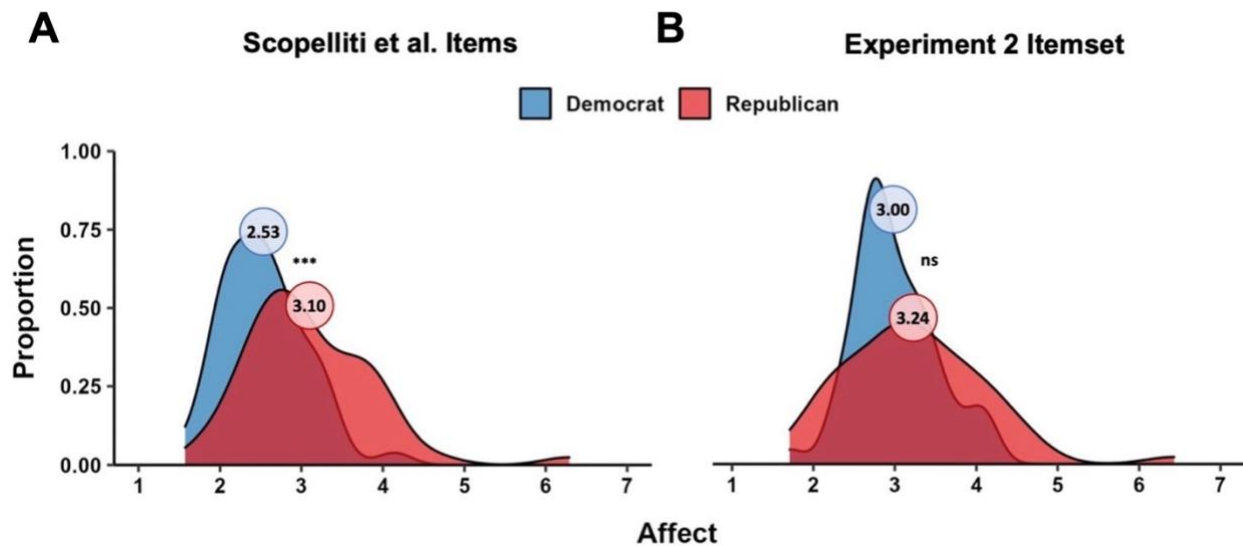
aggregation.

Figure 2. Item Selection Pre-Test: Affect. This figure displays the distribution of participants' (*N* = 100) mean affective judgment of 14 psychological biases described within bias blind spot items adapted from Scopelliti and colleagues (2015; Panel A). Participants' responses within this pilot study informed the selection of seven non-partisan bias blind spot items for inclusion in Experiment 2. The distribution of affective judgments regarding these seven remaining items is shown in panel B. Results of a *t*-test comparing the affective judgments of Democrats and Republicans are depicted (*** $p < .001$, *ns* $p > .05$) as are the mean affective judgments of Democrats and Republicans within each item set. Affect: "How do you view this effect or tendency?" (1 = *Extremely Negative*, 7 = *Extremely Positive*).

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[10] Note that it may not have been the biases themselves that evoked different reactions from Democrats and Republicans, but rather how these biases were described. To provide one example, the in-group favoritism item, created by Scopelliti and colleagues (2015), for which we observed partisan differences, focuses on peoples' "unconscious and automatic tendency to be less generous to people of a different race than to people of their race." It is possible that describing in-group favoritism in a different manner may reduce or even eliminate the partisan differences observed here.

Political Identity Strength. We measured the strength of participants' identification with their preferred political party using a 5-item scale adapted from Leach and colleagues (2008). Participants judged how much they agreed with statements probing their identification with their political party (e.g., "I feel a bond with [Democrats/Republicans]") using a 7-point scale that ranged from 1 (*Strongly Disagree*) to 7 (*Strongly Agree)*. Scale items showed excellent internal consistency ($\alpha = .93$) and thus were aggregated to form a composite measure of political identity strength.

Design and Procedure

The methodology of Experiment 2 largely mirrored that of Experiment 1. Participants completed a bias blind spot task in which they were presented with descriptions of seven biases and evaluated the extent to which they (Self block) and a target other (Other block) exhibited each bias. Block order was counterbalanced. Following all bias blind spot items within a given block, participants responded to bias assessment strategy and affect-related questions, as in Experiment 1. Random assignment determined whether participants evaluated the biases of the average Democrat or Republican during the Other block. Following the bias blind spot task, participants responded to three items, asking them how biased (*bias non-specific*) they viewed themselves, the average Democrat, and the average Republican. Unlike items in the bias blind spot task, these items asked participants to attribute bias to themselves and the average partisan *without* reference to specific psychological biases, and thus measured participants' bias attributions independent of the psychological biases selected.

Data Preparation

We excluded data from 34 participants who indicated that English was not their first language (*n* = 4), self-reported an age 61 years or older (*n* = 1), reported problems viewing study

materials ($n = 7$), or completed Experiment 2 in under 450 seconds ($n = 22$). These exclusions

were consistent with our pre-registered criteria.

Results and Discussion

Participants exhibited a bias blind spot, judging themselves ($M = 3.66$, $SD = 1.09$) as less

biased than a target other ($M = 4.67$, $SD = 1.07$), $t(625) = 19.06$, $p < .001$, $d = 0.94$, 95% *CI*

[0.82, 1.06]. This effect generalized across biases, with participants rating themselves as less

biased than a target other on all seven bias blind spot items (all $ps < .001$, all $ds > 0.39$). To

assess whether participants exhibited larger bias blind spots when evaluating the biases of the

average member of their political out-group (as opposed to in-group), we conducted a mixed

ANOVA with Target (Self vs. Other) as a within-subjects factor and Participant Partisanship

(Democrat vs. Republican) and Other Reference Group (In-Group Member vs. Out-Group

Member) as between-subjects factors. This analysis revealed a Target by Other Reference Group

interaction, $F(1, 622) = 152.26$, $p < .001$, $\eta_p^2 = .197$ (see Figure 3). While bias evaluations of the

self did not differ across Other Reference Group, $t(624) = 1.57$, $p = .116$, $d = 0.13$, 95% *CI* [-

0.03, 0.28], participants attributed significantly more bias to the average member of their

political out-group ($M = 5.18$, $SD = 0.91$) than in-group ($M = 4.14$, $SD = 0.96$), $t(624) = 13.91$, p

$< .001$, $d = 1.11$, 95% *CI* [0.94, 1.28].[11] Consequently, while participants displayed a bias blind

spot ($p < .001$) when evaluating the biases of the average co-partisan ($M = 0.41$, $SD = 0.98$), they

exhibited larger bias blind spots when evaluating the biases of the average out-group member

($M = 1.59$, $SD = 1.38$), $t(624) = 12.31$, $p < .001$, $d = 0.98$, 95% *CI* [0.82, 1.15]. There was no

main effect of Participant Partisanship, $F(1, 622) = 2.65$, $p = .104$, $\eta_p^2 = .004$, nor did we observe

any additional interactions (all $p > .05$). Responses to items asking participants how biased they

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[11] This finding generalized across biases as, for all seven bias blind spot items, political in-group members were judged as exhibiting the described bias less than political out-group members (all $p < .001$).

view themselves, the average Democrat, and the average Republican (bias non-specific),

mirrored responses provided within the bias blind spot task (which focused on seven specific

psychological biases). That is, while participants viewed themselves as less biased than the

average member of their political in-group ($p < .001$, $d = 0.38$), they displayed a larger bias blind

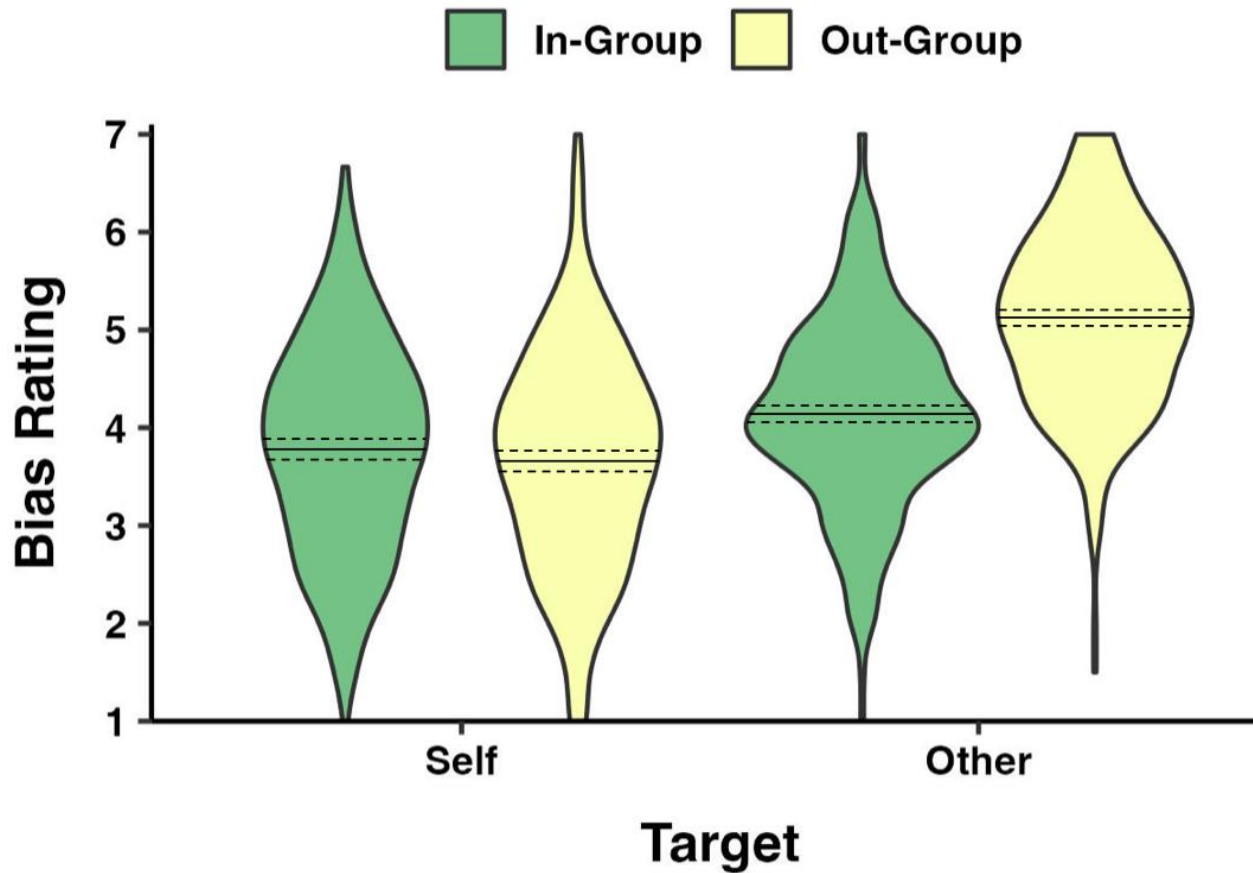spot when attributing bias to their political opponents ($p < .001$, $d = 0.92$).

Figure 3. Experiment 2 Results: Bias Attributions. This figure displays the distribution of participants' mean bias ratings for each Target and Other Reference Group condition. Solid lines represent the mean bias rating within a condition while dashed lines represent the 95% confidence interval.

Affective Evaluations Are Linked to Bias Attributions Within and Across Groups

Next, we examined whether participants' attributions of bias were sensitive to their

affective evaluations. Replicating the results of Experiment 1, negative feelings towards a target

other were associated with viewing this target other as more biased, $r(624) = -.55$, $p < .001$, and

consequently, larger bias blind spots, $r(624) = -.47$, $p < .001$. Importantly, these negative associations were observed not just across but also *within* each experimental condition. Participants' affective evaluations of a target other were negatively correlated with the magnitude of their bias blind spot regardless of whether the target other they evaluated was a political in-group, $r(304) = -.30$, $p < .001$, or out-group member, $r(318) = -.23$, $p < .001$. Given the robust association between affective evaluations and bias blind spot scores, we conducted mediation analyses to test whether affective judgments accounted for differences in participants' bias blind spots across conditions. These analyses revealed that the effect of Other Reference Group on bias blind spot scores was partially mediated by participants' affective evaluations of target others ($b = 0.62$, 95% *CI* [0.40, 0.80]; see Supplementary Materials Part C), suggesting that heightened attributions of bias toward political out-group members were driven, in part, by participants' affective feelings toward each party. Taken together, these findings suggest that while affect contributes to intergroup differences in bias attribution (consistent with in-group favoritism), it also shapes judgments within group boundaries. Thus, these results are consistent with affective feelings serving as a general heuristic cue guiding bias attributions both across and within groups.

We also examined the relationship between participants' other affective judgments and their bias blind spot scores. Consistent with Experiment 1, participants' *perceptions* of how a target other felt about *them* was negatively correlated with their bias blind spot, $r(624) = -.47$, $p < .001$, such that the more participants believed a target other viewed them negatively the more they tended to judge this target other as biased, $r(624) = -.52$, $p < .001$. Additionally, participants who reported more positive feelings toward themselves tended to view themselves as less biased, $r(624) = -.11$, $p = .006$. This modest correlation with reference to the self was significantly

smaller than the former correlation referencing a target other, $z = -8.21$, $p < .001$, again

suggesting that it is affective feelings toward others, not oneself, that modulates the bias blind

spot.

Strongly Identified Partisans Attribute Less Bias to Their Political In-Group

The design of Experiment 2 permitted a test of whether participants' level of

identification with their preferred political party was related to their bias blind spot scores.

Among participants assigned to evaluate the biases of the average out-group member, political

identity strength was not correlated with bias blind spot scores, $r(318) = .09$, $p = .111$. However,

among those judging the biases of the average in-group member, stronger identification with

one's political in-group was associated with viewing the average in-group member as less biased,

$r(304) = -.15$, $p = .009$, and relatedly, with *smaller* bias blind spots, $r(304) = -.30$, $p < .001$. This

association remained when controlling for affective evaluations of the average in-group member,

$b = -0.14$, 95% CI [-0.25, -0.02], $t(302) = -2.31$, $p = .022$, itself a significant predictor of bias

blind spot scores, $b = -0.19$, 95% CI [-0.35, -0.04], $t(302) = -2.42$, $p = .016$. In sum, rather than

strongly identified partisans attributing more bias to political opponents and exhibiting larger

bias blind spots, political identity strength was linked to viewing in-group members as less

biased—mirroring how individuals viewed themselves. This effect was not simply due to strong

partisans' more positive feelings toward their in-group, as political identity strength continued to

predict bias blind spot scores after controlling for affective evaluations.

Affect Predicts Bias Attributions Beyond Its Influence on Bias Assessment Strategies

We next examined whether participants' affective evaluations of target others were

associated with the strategies they reported using to assess those targets' biases. A greater

proportion of participants endorsed an introspection strategy when evaluating the biases of the

average in-group member (62.20%) than when evaluating the average out-group member

(38.46%), $\chi^2 = 33.00$, $p < .001$. Moreover, participants reported more positive feelings toward

target others' when endorsing an introspection strategy ($M = 0.53$, $SD = 1.62$) compared to one

focused on a target's behavior ($M = -0.33$, $SD = 1.81$), $t(594) = 6.18$, $p < .001$, $d = 0.50$, 95% CI

[0.34, 0.67]. Together, these results suggest that affective evaluations are tied to individuals' bias

assessment strategies, with more positive feelings toward a group corresponding to greater

reliance on the presumed internal states—rather than observable behavior—of its members.

Next, we assessed whether affective impressions shaped attributions of bias by shifting

participants' bias assessment strategies—specifically, whether positive feelings increased

reliance on introspection, thereby reducing attributions of bias, consistent with the introspection

illusion account. Participants' self-reported strategies again undermined key predictions of this

account. For example, participants favored a behavioral observation strategy (65.64%) when

assessing their own biases, $\chi^2 = 57.25$, $p < .001$. Moreover, they did not favor a behavioral

observation strategy when assessing the biases of a target other (Behavior: 49.91% vs.

Introspection: 50.09%), $\chi^2 = 0.02$, $p = .967$. Finally, there was no association between

participants' self-directed bias assessment strategies and bias attributions, $r(600) < .01$, $p = .935$.

However, endorsing an introspection strategy was associated with lower attributions of bias

when ascribing bias to others, $r(601) = -.16$, $p < .001$. Endorsing an introspection strategy when

evaluating others' biases was also associated with smaller bias blind spot scores—even after

controlling for participants' affective evaluations (see Table 3). Thus, these results provide some

evidence that people rely more heavily on introspection-based strategies when evaluating well-

liked others and that such strategies are linked to viewing others as less biased. Nevertheless,

affective feelings, particularly those toward target others, remained the strongest and most

consistent predictor of participants' bias blind spot scores, suggesting that affective impressions primarily shape attributions of bias independent of their influence on bias assessment strategies.

Table 3

Affective Evaluations Predict Bias Blind Spot Scores in a Polarized Group Context

Predictor	b	95% CI	β	t	p
Intercept	0.81	[0.61, 1.00]	-	8.04	< .001
Affect (Self)	0.12	[0.06, 0.19]	0.14	3.92	< .001
Affect (Other)	-0.35	[-0.41, -0.30]	-0.47	-12.57	< .001
Strategy (Self)	0.03	[-0.17, 0.23]	0.01	0.31	.754
Strategy (Other)	0.27	[0.07, 0.46]	0.10	2.70	.007

Note. $N = 585$; $df = 580$. Results from a multiple linear regression predicting participants' bias blind spot scores from their affective evaluations of the self and a target other, as well as their self-reported bias assessment strategy for each target. Strategy use was once again dummy-coded such that participants who reported using an introspection-based strategy were coded as 0, and those using a behavioral observation strategy were coded as 1. Model Summary: $R^2 = 0.26$, $F(4, 580) = 49.99$, $p < .001$.

Experiment 3

Experiment 3 provided a conceptual replication of Experiment 2, with a primary modification being that participants evaluated the biases of both the average Democrat and Republican. Therefore, Experiment 3 allowed us to assess whether the observed tendency for individuals to view themselves and liked-others (political in-group members) as less biased than more disliked-others (rival partisans) would persist in a within-subjects design in which potential comparisons between the average in-group and out-group member were more salient.

Method

Participants

We recruited 660 participants from Prolific using the same criteria as Experiment 2. Based on pre-registered criteria, we excluded data from 24 participants, leaving data from 636 participants (49% Female; M_{age} = 38.26, SD_{age} = 10.80; 50% Democrat; 64% College educated).

Measures and Materials

All measures and materials described in Experiment 2 were featured in Experiment 3, with two exceptions. First, Experiment 3 did not include bias assessment strategy items. Second, Experiment 3 used a modified measure of political identity strength: one item was removed and four new items were added. These new items aimed to capture the extent to which *not* belonging to one's political out-group was an important part of individuals' identity (e.g., "The fact that I am not a [Republican/Democrat] is an important part of my identity"). The resulting 8-item scale demonstrated good internal consistency (α = 0.87) and was aggregated to form a composite measure of political identity strength. Finally, the 7-item non-partisan bias blind spot measure used in Experiment 2 again showed acceptable internal consistency (α = 0.70) in Experiment 3.

Design and Procedure

The design of Experiment 3 mirrored that of Experiment 2, with one exception. Participants in Experiment 3 completed an additional bias blind spot task block. That is, unlike in Experiment 2, all participants evaluated the extent to which both the average Democrat *and* the average Republican exhibited seven distinct biases. As in previous experiments, participants also evaluated the extent to which they exhibited these biases (Self block). The presentation of Self vs. Other blocks as well as Democrat vs. Republican Other blocks were counterbalanced.

Data Preparation

We excluded data from 24 participants who indicated that English was not their first language (n = 1), self-reported an age 61 years or older (n = 1), reported problems viewing study

materials ($n = 9$), or completed Experiment 3 in under 450 seconds ($n = 13$). These exclusions

were consistent with pre-registered criteria.

Results and Discussion

Participants displayed a bias blind spot, judging themselves ($M = 3.66$, $SD = 1.07$) as less

biased than target others ($M = 4.62$, $SD = 0.70$), $t(635) = 22.97$, $p < .001$, $d = 1.04$, 95% CI [0.93,

1.14]. This effect, once again, generalized across biases, with participants rating themselves as

less biased than target others on all seven bias blind spot items (all $ps < .001$, all $ds > 0.37$).

Critically, we assessed whether the magnitude of this bias blind spot increased when the target

other was the average member of one's political out-group (as opposed to in-group). A mixed

ANOVA featuring Participant Partisanship (Democrat vs. Republican) as a between-subjects

factor and Other Reference Group (in-group member vs. out-group member) as a within-subjects

factor revealed a main effect of Other Reference Group, $F(1,634) = 415.88$, $p < .001$, $\eta_p^2 = .396$.

That is, while participants exhibited a bias blind spot ($p < .001$) when evaluating the biases of the

average in-group member ($M = 0.43$, $SD = 1.00$), they exhibited much larger bias blind spots

when evaluating the biases of the average out-group member ($M = 1.48$, $SD = 1.45$), $t(635) =$

19.91, $p < .001$, $d = 0.83$, 95% CI [0.73, 0.93].[12] Thus, the tendency to view oneself and political

in-group members as less biased than rival partisans persisted in a within-subjects design where

direct comparisons between in- and out-group members were made salient.

This analysis also revealed a main effect of Participant Partisanship, $F(1,634) = 9.10$, $p =$

.003, $\eta_p^2 = .014$, and a Participant Partisanship by Other Reference Group interaction, $F(1,634) =$

30.19, $p < .001$, $\eta_p^2 = .045$ (see Figure 4). Democrats displayed larger bias blind spots ($M = 1.08$,

$SD = 0.97$) than Republicans ($M = 0.83$, $SD = 1.11$), reflecting their greater attribution of bias to

political out-group members. That is, Democrats and Republicans did not differ in the extent to

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[12] As in Experiment 2, this effect of Other Reference Group generalized across biases (all $p < .001$).

which they attributed bias to themselves ($p = .338$) or the average in-group member ($p = .149$). However, Democrats attributed significantly more bias to the average out-group member ($M = 5.38$, $SD = 0.84$) than did Republicans ($M = 4.92$, $SD = 0.94$), $t(634) = 6.41$, $p < .001$, $d = 0.51$, 95% CI [0.35, 0.67]. As a result, Democrats displayed larger bias blind spots than Republicans when their self-attributions of bias were compared to their attributions of bias towards the average out-group ($p < .001$, $d = 0.38$), but not in-group member ($p = .651$, $d = 0.04$).

Responses to questions asking participants to attribute bias to themselves and others in a bias non-specific manner replicated these findings, suggesting that our results did not depend on the specific psychological biases assessed. For example, within these single-item measures, participants viewed themselves as less biased than the average co-partisan ($p < .001$, $d = 0.37$) and displayed larger bias blind spots when attributing bias to the average out-group member ($p < .001$, $d = 0.89$). Moreover, Democrats attributed more bias to the average out-group member than Republicans, $t(634) = 3.93$, $p < .001$, $d = 0.31$, 95% CI [0.16, 0.47].
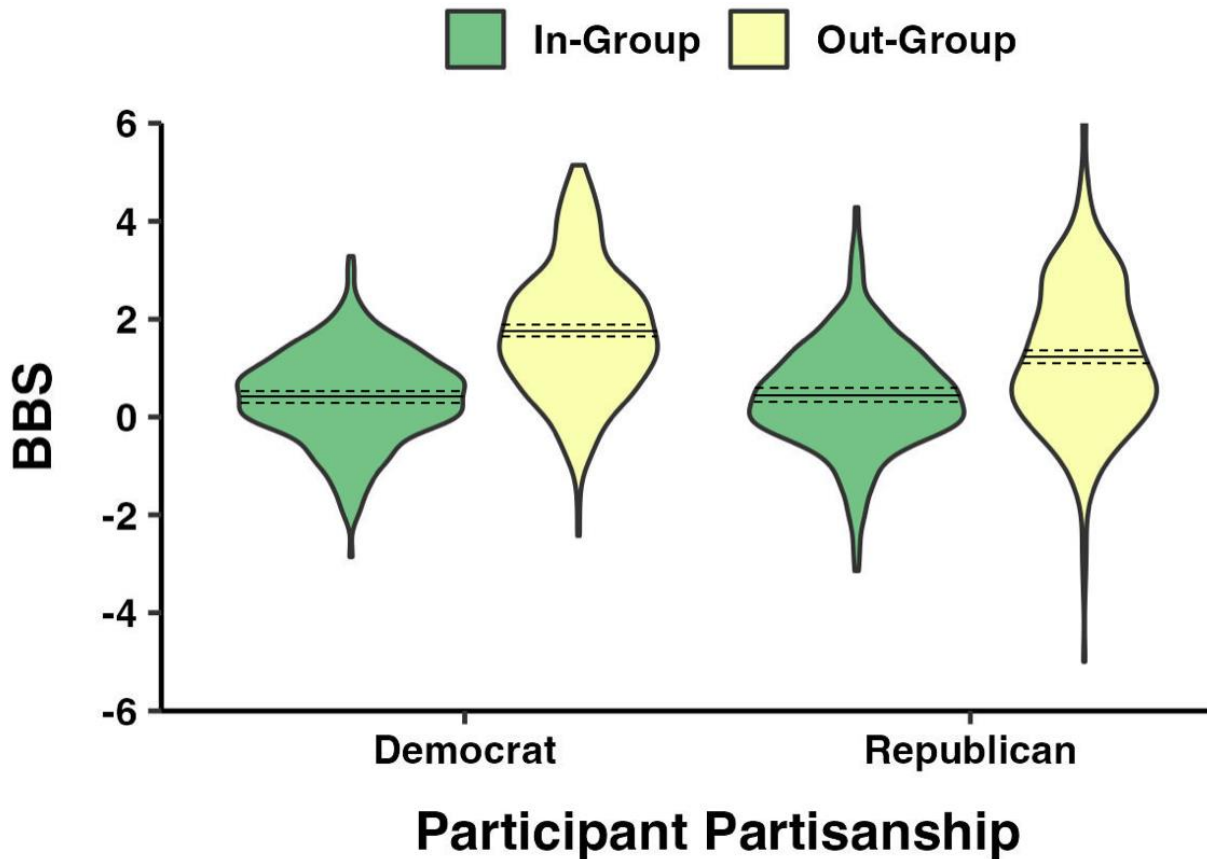
Figure 4. Experiment 3 Results: Bias Blind Spots. This figure displays the distribution of participants' bias blind spots (other bias rating – self bias rating) for each Other Reference Group. Solid lines represent the mean bias rating within a condition while dashed lines represent the 95% confidence interval.

Affective Evaluations Are Linked to Bias Attributions Within and Across Groups

Next, we examined whether participants' affective evaluations were associated with their attributions of bias. Reporting more positive feelings toward target others was correlated with judging those target others as less biased (in-group member: $r(634) = -.35$, $p < .001$; out-group member: $r(634) = -.41$, $p < .001$), and consequently, with smaller bias blind spots (in-group member: $r(634) = -.29$, $p < .001$; out-group member: $r(634) = -.32$, $p < .001$). Thus, as in Experiments 1 and 2, affective evaluations showed robust associations with attributions of bias *within* each target other category. We then conducted a mediation analysis to test whether

affective evaluations accounted for differences in bias blind spot scores across target other categories. This analysis revealed that affective evaluations of target others fully mediated the effect of Other Reference Group on participants' bias blind spot scores (b = -0.98, 95% *CI* [-1.14, -0.82]; see Supplementary Materials Part C), suggesting that polarized attributions of bias toward in-group and out-group members were driven by corresponding differences in affective feelings toward these groups. Together, these findings provide further support for the significant role of affect in shaping attributions of bias both *between* and *within* group boundaries. Finally, we examined the association between participants' other affective judgments and their bias blind spot scores. Replicating the results of Experiments 1 and 2, the *perception* that target others possessed negative feelings towards *oneself* was associated with judging target others as more biased (in-group member: $r(634)$ = -.33, $p < .001$, out-group member: $r(634)$ = -.40, $p < .001$) and larger bias blind spots (in-group member: $r(634)$ = -.22, $p < .001$, out-group member: $r(634)$ = -.31, $p < .001$). Unlike in Experiments 1 and 2, we did not observe an association between affective judgments and bias attributions when the target of evaluation was oneself, $r(634)$ = -.07, $p = .069$.

Strongly Identified Partisans Attribute Less Bias to Their Political In-Group

Finally, we examined whether individual differences in political identity strength were associated with participants' bias blind spot scores. Replicating the results of Experiment 2, stronger identification with one's preferred political party was associated with attributing less bias to the average in-group member, $r(634)$ = -.25, $p < .001$, and with smaller bias blind spots when the average in-group member served as the focal other, $r(634)$ = -.24, $p < .001$. This association with bias blind spot scores remained when controlling for affective evaluations of the average in-group member, b = -0.08, 95% *CI* [-0.16, -0.01], $t(633)$ = -2.08, $p = .038$, itself a

strong predictor of participants' bias blind spots, $b = -0.23$, 95% CI [-0.32, -0.13], $t(633) = -4.74$, $p < .001$. Therefore, strong partisans again exhibited a tendency to view the average in-group member as less susceptible to a host of psychological biases, displaying smaller bias blind spots within an in-group context. Additionally, the relation between political identity strength and in-group bias attribution was not explained solely by strong partisans' more positive feelings toward their in-group, suggesting that other facets of a strong partisan identity contribute to ascribing less bias to co-partisans.

Unlike in Experiment 2, possessing a stronger partisan identity was associated with attributing more bias to the average out-group member, $r(634) = .26$, $p < .001$, and with larger bias blind spots when the average out-group member was the focal other, $r(634) = .18$, $p < .001$. However, this association with bias blind spot scores was no longer significant after controlling for affective evaluations of the average out-group member, $b = 0.05$, 95% CI [-0.05, 0.15], $t(633) = 1.06$, $p = .289$, which was again a strong predictor of bias blind spot scores, $b = -0.33$, 95% CI [-0.42, -0.24], $t(633) = -7.02$, $p < .001$. Thus, strongly identified partisans' tendency to attribute more bias to political opponents appeared to be driven by their negative feelings toward the out-group.

General Discussion

Across three experiments, we find that people's tendency to attribute bias to others while denying it in themselves is shaped by their affective evaluations of targets, particularly target others. Consistent with past examinations of the bias blind spot (Mandel et al., 2022; Pronin et al., 2002), participants in Experiment 1 attributed more bias to the average survey respondent than themselves. However, when asked to assess the biases of a liked well-known other, participants no longer displayed a bias blind spot, viewing themselves and this liked individual

as similarly biased. It was not participants' access to individuating information that eliminated their bias blind spot, as they viewed a familiar but disliked individual as considerably more biased than themselves. Rather, attributions of bias were closely linked to affective evaluations of others—both *across* and *within* target other conditions. The more positively participants felt toward a target other, the less bias they ascribed to them. By comparing individuals' self-evaluations of bias to those of familiar others, the current study demonstrates that the bias blind spot—a well-documented meta-bias considered to be a pervasive feature of social cognition—may rarely extend to the positively-valenced relationships that characterize much of social life. Thus, in many interpersonal contexts, people may seldom perceive themselves as less biased than the people they know and interact with.

Failure to attribute bias to individuals we like, while readily attributing bias to those we dislike has important theoretical and practical implications. The association between affect and attributions of bias can promote "bias-perception conflict spirals," previously observed within the context of disagreement (Kennedy & Pronin, 2008). In the case of affect, feelings of dislike can facilitate the view that a disliked individual is biased. This attribution of bias can then encourage individuals to engage in conflict-escalating actions (as has been shown in prior work; Kennedy & Pronin, 2008; Pronin et al., 2006) that, over time, lead to stronger negative affect and consequently, greater attributions of bias. Such negative feedback loops may be most pertinent to group contexts characterized by dislike and disagreement, such as political contexts featuring competing groups with distinct values.

Much work has documented the rise of affective polarization and partisan animosity in the United States (Finkel et al., 2020) and other countries (Boxell et al., 2022). Given peoples' proclivity to attribute bias more readily to individuals they dislike, rising partisan animosity may

amplify attributions of bias across political divides which, as we have discussed, can escalate

conflict and lead to even greater partisan animus in the future. Rising partisan animosity, insofar

as it increases the extent to which partisans view their political opponents as biased, may also

influence how people consume political information and participate in politics. For example,

perceiving political out-group members as biased can lead partisans to self-select into political

echo chambers and disengage from political discussions that feature individuals with opposing

views. Similarly, increased perceptions of bias across political lines may diminish individuals'

trust in bipartisan institutions and lead people to disengage from democratic processes. While

secondary analyses provide preliminary support for these claims,[13] future studies should

investigate the extent to which affective evaluations of political in-group and out-group members

shape how citizens consume political information and engage in democratic processes.

Experiments 2 and 3 examined the link between affect and attributions of bias in an

intergroup context. Here, we demonstrate that partisan Americans view the average member of

their political out-group as far more susceptible to a host of psychological biases than themselves

or the average member of their political in-group. Furthermore, we again observed a strong

relationship between affective evaluations and attributions of bias. The more positively

participants felt toward their political in-group, the less biased they viewed the average in-group

member. Similarly, more negative feelings towards one's political out-group predicted greater

attributions of bias towards opposing partisans. Even *perceptions* of affect were associated with

attributions of bias. For example, participants perceiving more negative feelings between

Democrats and Republicans attributed more bias to the average member of their political out-

group and exhibited larger bias blind spots. Thus, even when lacking negative affect towards

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[13] In Experiment 3, attributing more bias to the average political out-group member was associated with a stronger preference for ideologically congruent media, $r(634) = .24$, $p < .001$ (see Supplementary Materials Part E).

rival partisans, heightened perceptions of partisan animosity—even if exaggerated[14]—may lead

partisans to more readily impute bias to their political opponents, exacerbating partisan conflicts.

Research on affective polarization shows that negative feelings toward political out-

groups shape individuals' political attitudes and behaviors (Abramowitz & Webster, 2016;

Finkel et al., 2020; Kingzette et al., 2021). The present research contributes to this literature by

linking the polarized feelings of American partisans to non-political judgments of political in-

group and out-group members. That is, partisans' affective evaluations of the average Democrat

and Republican predicted the extent to which they saw members of each group as prone to a set

of domain-general psychological biases, most of which were not political in nature. Thus,

partisans who harbor strong animosity toward their political opponents may not only distrust

their judgments in political contexts (e.g., their assessment of political events) but also question

their objectivity more broadly. These results are consistent with the idea that affective

impressions serve as a domain-general heuristic cue guiding attributions of bias. By highlighting

the central role of "hot" affective evaluations over "cold" cognitive strategies, our results also

contribute to ongoing debates about the origins of partisan bias (Celniker & Ditto, 2024;

Druckman & McGrath, 2019). Although our experiments did not assess the evidentiary basis for

partisans' bias attributions, the robust association between affective evaluations and judgments

of bias suggests that partisans' polarized affective feelings played a central role in their tendency

to view in-group members as objective and out-group members as biased.

Affect and the Bias Blind Spot: Theoretical Implications

A prominent account of the bias blind spot states that this meta-bias results, at least in

part, from peoples' tendency to value their own introspective evidence, while dismissing the

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[14] Consistent with prior work on "false polarization" (Fernbach & Boven, 2022; Lees & Cikara, 2021), participants in Experiment 2 overestimated how biased members of their political out-group viewed the average member of their political in-group ($p < .001$, $d = 0.23$; see Supplementary Materials Part E).

introspective evidence of others (Pronin, 2007, 2008). Distrusting the introspections of others, people instead focus on others' behavior when assessing their level of bias (Pronin et al., 2004). Given that the cognitive processes that produce many psychological biases are inaccessible to introspection (Wilson & Brekke, 1994; Wilson et al., 2002), this self-other asymmetry in *strategies* for assessing bias has been theorized to produce the self-other asymmetry in *attributions* of bias that characterize the bias blind spot. Contrary to this account, a majority of participants in Experiments 1 and 2 endorsed a behavioral observation—as opposed to introspection—strategy when assessing their own biases. Likewise, while a majority of participants endorsed a behavioral observation strategy when assessing the biases of a target other in Experiment 1, this preference was not observed in Experiment 2. Additionally, reliance on introspective evidence was weakly correlated with lower attributions of bias in Experiment 2, with no such relation being observed in Experiment 1. Thus, while participants exhibited bias blind spots in Experiments 1 and 2, this meta-bias was not readily explained by self-other asymmetries in reliance on introspective evidence, as (a) such asymmetries were infrequently observed and (b) bias assessment strategies were not reliably associated with attributions of bias.

Participants' affective evaluations of familiar others predicted how much bias they attributed to familiar others and consequently, the extent to which they viewed themselves as less biased than individuals they know and interact with. Furthermore, in a polarized group context, affective impressions of the "average" Democrat and Republican mediated the extent to which American partisans attributed different psychological biases to political in-group and out-group members. Affective impressions are generated quickly and automatically (Bargh et al., 1992; Zajonc, 1980) and play a significant role in human judgment (Lerner et al., 2015; Slovic et al., 2007). The present findings are consistent with participants using readily available affective

feelings as heuristic cues when assessing the biases of others. Thus, independent of individuals' strategies for assessing bias, affective feelings may prompt them to attribute objectivity to people they like and bias to those they dislike, consistent with the observed elimination of the bias blind spot when participants evaluated bias in themselves and a well-liked other. These results support our novel account of the bias blind spot, one that can explain how individuals attributed bias to familiar others in the present work. Our account emphasizes the primacy of "hot" affective evaluations over "cold" cognitive strategies. We theorize that, when attributing bias to familiar others who elicit affective reactions, affective feelings come to dominate assessments of bias either by (a) impacting downstream cognitive strategies (e.g., increasing reliance on introspective evidence for members of well-liked groups) or (b) acting as a heuristic cue allowing people to quickly and efficiently attribute bias to themselves and familiar others without engaging in these more effortful cognitive processes.

Implications for Debiasing the Bias Blind Spot

Viewing oneself as objective while perceiving bias in others has been linked with poor judgment and negative interpersonal interactions (Kennedy & Pronin, 2008; Scopelliti et al., 2015). The present work has implications for interventions aimed at mitigating this important meta-bias, particularly in affect-rich interpersonal and intergroup contexts. Rather than attempting to have people question the objectivity of their perceptions and the value of their introspections, the present findings suggest that promoting positive affective evaluations between individuals and groups can reduce the extent to which people view themselves as uniquely unbiased. Therefore, by encouraging interventions that shape individuals' "hot" affective reactions as opposed to their "cold" cognitive strategies, our account can inform the development of interventions that seek to mitigate the bias blind spot.

Study Limitations

We find that peoples' affective evaluations of familiar others guide how they attribute bias to these individuals, and consequently, the extent to which they view themselves as less biased than others. This finding was supported across distinct contexts (interpersonal and intergroup), study designs (within-subjects and between-subjects), and biases. Nevertheless, the present work is not without limitations. For instance, the current study manipulated affect by randomly assigning participants to a) assess the biases of a liked or disliked well-known other and b) assess the biases of the average political in-group and out-group member. This methodology was high in ecological validity, taking advantage of participants' naturally occurring affective impressions of target others. However, target others may have differed not only with regards to participants' affective evaluations, but in additional ways that influenced bias attributions. While we find that affective evaluations *within* each target category share a negative relation with attributions of bias, future work may seek to manipulate affective impressions in a way that eliminates the potential influence of extraneous variables (e.g., disagreement) on bias attributions.

Constraints on Generality

While Experiment 1 primarily included non-American participants, Experiments 2 and 3 leveraged the polarized affective feelings of Democrats and Republicans to investigate how affective evaluations influence attributions of bias in an intergroup context. While this context—marked by strong positive affect toward political in-group members and negative affect toward out-group members—provided a compelling testbed for our hypotheses, its U.S.-centric focus may raise questions about the generalizability of our findings to other intergroup contexts and political systems. However, consistent with the findings of Experiment 1, prior research has

documented individuals' bias blind spots (Chandrashekar et al., 2021; Niszczota et al., 2023) and reliance on an affect heuristic (Finucane et al., 2000; Keller et al., 2006) in non-U.S. populations. Moreover, affective polarization is not unique to the United States; comparable affectively charged intergroup divisions have been observed globally, including in multi-party systems (Reiljan, 2020; Wagner, 2021). On this basis, we expect our findings—particularly the role of affect in bias attribution—to generalize across intergroup contexts characterized by polarized affective evaluations of in-group and out-group members. Additionally, consistent with the results of the current study, we expect our findings to generalize across psychological biases. However, researchers should ensure that the biases they assess are viewed as socially undesirable and are endorsed as biases by participants, particularly if wishing to make comparisons between groups with distinct values (e.g., Democrats and Republicans) or recruiting participants from previously unassessed cultures. The pilot study discussed in Experiment 2 and reported in full in the Supplementary Materials (Part D) provides one example of this practice. We have no reason to believe that the results depend on other characteristics of the participants, materials, or context.

Conclusion

People exhibit a bias blind spot, perceiving themselves as less susceptible to bias than the "average other" (Pronin & Hazel, 2023). The present investigation provides insight into how people attribute bias to familiar others who evoke significant affect. Across interpersonal and intergroup contexts, we show that attributions of bias are sensitive to affective evaluations of others, with people perceiving themselves and individuals they like as objective while viewing disliked individuals as considerably biased. The present findings have theoretical implications for current theories of bias attribution, suggesting that affective evaluations serve as heuristic

cues that guide how people attribute bias to others. They also have practical implications, suggesting that initial feelings of dislike can facilitate the perception that a disliked individual or group is biased, encouraging conflict-escalating actions and hindering compromise. In a political domain characterized by rising partisan animosity, understanding how affective feelings shape attributions of bias is of considerable importance, as effective governance is not possible when people view their political opponents as hopelessly biased.

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