De facto selective exposure revisited:

Causes and consequences for attitudes, persuasion, and impression formation

Allison Earl, Dolores Albarracín, William Hart, Susannah Cazaubon & Hari Sandaram

- Department of Psychology and Research Center for Group Dynamics at the Institute for Social Research, University of Michigan, Ann Arbor, USA;
  - Department of Psychology, University of Illinois, Champaign Illinois, USA
  - Department of Psychology, University of Alabama, Tuscaloosa, Alabama, USA;

*Corresponding author. Email: anearl@umich.edu

Allison Earl and Susannah Cazaubon
University of Michigan
530 Church Street
Ann Arbor, MI, USA 48109
+1 734 763 1133
anearl@umich.edu

William Hart
University of Alabama
505 Hackberry Lane
Tuscaloosa, AL, USA 35487
+1 205 348 1930
wphart@ua.edu and kburton1@crimson.ua.edu

Dolores Albarracín and Hari Sandaram
University of Illinois
603 East Daniel Street
Champaign, IL 61822
+1 217 244 7019
dalbarra@illinois.edu
Abstract
Much research has explored how people select from amongst supportive and challenging information for themselves. Surprisingly, however, no work has examined how people select information in a similar context for others. We propose that people may filter conclusion-challenging information for others, while forwarding conclusion-supportive information, particularly when the information recipient is liked. We label this effect vicarious selective exposure, and across three studies, examine degree of selection of supportive (versus challenging) information for another person. Results indicated that selectors gave recipients biased information in favor of recipient’s desired conclusions, particularly for a liked (versus disliked) recipient. Furthermore, in parallel with selective exposure for the self, vicarious selective exposure was influenced by hedonic and informational motives.

*Keywords*: selective exposure; information selection; motives for information selection; interpersonal consequences of information selection
People are more likely to see information that supports (versus challenges) their desired conclusions (D’Alessio & Allen, 2002; Earl et al., 2009; Earl & Hall, in press; Earl & Nisson, 2015; Festinger, 1957, 1964; Freedman & Sears, 1965; Frey, 1986; Greenwald & Sakumura, 1967; Hart et al., 2009; Lazarsfeld, Berelson, & Gaudet, 1948; Jonas et al., 2009; Sears & Freedman, 1967). This phenomenon has been explained by one of two processes (Freedman & Sears, 1965; Hart et al., 2009). First, people may actively seek out supportive verses challenging information (labeled congenial versus uncongenial information; “attitudinal selectivity”). Indeed, when people are given choices between congenial and uncongenial information, they choose more congenial information (D’Alessio & Allen, 2002; Festinger, 1957, 1964; Frey, 1986; Hart et al., 2009). Second, for various reasons – many of which are unclear – people may simply be in environments that contain more congenial (versus uncongenial) information (Freedman & Sears, 1965; Greenwald & Sakumura, 1967; Lazarsfeld, Berelson, & Gaudet, 1948; Sears & Freedman, 1967; “de facto selectivity”).

But what does de facto selectivity entail? The definition from previous literature refers to the phenomenon of being in mostly congenial information environments, but does not have much theorizing about these congenial information environments. We posit that there are three distinct ways in which de facto selectivity may unfold. The first possibility is that individuals just happen to be in information environments that contain relatively more congenial, compared to uncongenial, information because attitudes are learned from the environment. This mechanism suggests an inductive process by which attitudes are constructed from available information. Thus, we are in congenial information environments, de facto, because the information environment shaped our attitudes in the first place (Earl & Hall, in press). Indeed, extensive literatures on mere exposure (Berlyne, 1970; Stang, 1973; Montoya, Horton, Vevea, Citkowicz,
& Lauber, 2017; Zajonc, 1968), evaluative conditioning (De Houwer, Thomas, & Baeyens, 2001; Harmon-Jones, Armstrong, & Olson, in press; Hofmann, de Houwer, Perugini, Baeyens, & Crombez, 2010; Jones, Olson, & Fazio, 2010), and learning theory (Bandura, 1997) support the notion that we learn our attitudes from the environment. A second, as of yet untested, possibility is that agents outside the self aid in the construction of congenial information environments. In this case, other people know what we want to hear and decide to give it to us. In earlier work, this was hypothesized to be people like sycophantic politicians (Zimmerman & Bauer, 1956) or totalitarian regimes (Sears & Freedman, 1967), both controlling information for their own nefarious purposes. However, a far more common, yet less insidious pathway may exist. Namely, our friends could construct congenial information environments on our behalves. In this case, information selection may serve a hedonic, and ultimately affiliative, function. A third, also previously untested, possibility is that we may simply evaluate information favorably, even when it is not, in fact, attitude consistent. For instance, we may view information from a liked other as enjoyable or useful, regardless of its congeniality. The current paper explores the second and third routes to de facto selectivity: (a) individuals construct congenial information environments on behalf of liked others, a process labeled vicarious selective exposure and (b) information from liked others is evaluated more favorably, regardless of its congeniality, resulting in perceived matching between an individual’s attitude and the information environment. This work has implications not only for attitude theory, but also for information dissemination, motivated reasoning, echo chambers, receptivity to persuasive messages, etc. etc. etc.

Selective Exposure For the Self: Attitude Selectivity

Selective exposure for the self is well-established, summarized by meta-analytic evidence that people show a moderate preference for information that is congenial (versus uncongenial) to
their decisions \((d = .36; \text{Hart et al., 2009})\). Selective exposure for the self is driven primarily by the desire to feel good and the desire to be correct (Chaiken, Giner-Sorolla, & Chen, 1996; Chaiken, Liberman, & Eagly, 1989; Eagly, Chen, Chaiken, & Shaw-Barnes, 1999; Hart et al., 2009). For instance, the desire to feel good drives avoidance of uncongenial information and approach to congenial information, particularly when information quality is high (vs. low; Lowin, 1967, 1969). In contrast, the desire to be correct drives even-handed information selection and a preference for high-quality (vs. low-quality) information regardless of congeniality.

**Vicarious Selective Exposure**

Apart from attitude selectivity, selectivity on behalf of others is one way that people may receive congenial (versus uncongenial) information (Sears, 1968). Yet, little empirical work has tested this proposed mechanism of information selectivity. Furthermore, the selectors specified by earlier work were often described as sycophantic politicians or totalitarian regimes controlling the information an audience receives (Sears & Freedman, 1967; Zimmerman & Bauer, 1956). However, a less insidious, yet far more common, pathway may exist. Namely, people may forward conclusion-supportive information to others, while filtering conclusion-challenging information, particularly for liked recipients. We label this effect *vicarious selective exposure*. Broadly, we presume that vicarious information selection is likely to involve motives to make others feel good (“hedonic motivation”), to make others accurate (“informational motivation”). One consequence of vicarious selective exposure is that individuals may end up in a curated information environment, comprised of relatively more congenial compared to uncongenial information.
Beyond the self, how do people choose information on behalf of others? One possibility is that people disregard the recipient’s views and choose information that they personally prefer. When the topic elicits defensive motives for selectors (e.g., when selectors have a strongly held attitude on a topic), they may choose whatever suits their own views; this outcome simultaneously affirms one’s views and avoids dissonance from propagating un congenial information (Festinger, 1957; Hart et al., 2009). However, this view largely ignores the recipient’s attitudes, and research suggests that there should be circumstances under which selectors are likely to take recipients’ perspectives into account when selecting information on their behalf. For instance, people may choose to silence themselves rather than say something that would hurt another’s feelings (Rosen & Tesser, 1970). In instances of group decision-making, people may suppress their own points of view to preserve group harmony, especially if their views might be un congenial to other group members (Janis, 1972). Finally, when deciding whether or how to deliver bad news to someone, the information messenger may consider the recipient’s preferences and feelings (Sweeney & Shepperd, 2007).

Accounting for an information recipient’s attitudes or feelings should occur especially for liked others. People are more likely to experience the emotions of liked others (Hatfield, Cacioppo, & Rapson, 1994; Heider, 1958; Howard & Gengler, 2001), experience vicarious distress from liked others’ pain (Krebs, 1975), and experience vicarious dissonance with liked others (Norton, Monin, Cooper, & Hogg, 2003). Liked others are also more likely to be incorporated into one’s self-concept when they are similar in personality (Smith & Henry, 1996) and attitudes (Coats, Smith, Claypool, & Banner, 2000). Thus, information selectors should produce more congenial information for recipients to promote validation and reduce the
discomfort associated with uncongenial information. Even for attitudinally dissimilar others, an information recipient’s likability may affect the congeniality of information selections.

Understanding selectors’ intentions when choosing information for others is also of theoretical value. For the self, issues that are value-relevant for selectors are more likely to elicit defensive motives, thereby increasing both congeniality bias and the need for validation; topics that are less value-relevant should elicit accuracy motives, thereby decreasing congeniality bias and increasing the need for useful information (Hart et al., 2009). How do these intentions manifest when selecting information for others? Issues eliciting defensive motives for the selector may lead to a congeniality bias for attitudinally similar recipients out of a desire to provide the same hedonic validation that the selector feels, but attitudinally dissimilar others may receive mostly uncongenial information (for them) out of the selector’s attempt to persuade them (i.e., a motive to provide information that is useful, not hedonic, for the recipient).

**Evaluating Information From Liked Others**

Beyond questions of how people select information for others, the present research can also address: (a) the heterogeneity or homogeneity of information environments that selectors promote for recipients; (b) how recipients evaluate information as a result of characteristics of the selector and the selected information; and (c) whether recipients can identify the homogeneity or heterogeneity of their information environments. These questions are especially relevant in the modern age of increased news consumption in online settings (Olmstead, Mitchell, & Rosenstiel, 2011), which may change how information is received and processed (Flanagin, 2017). Although there have been warnings that online platforms such as social media promote “echo chambers” that facilitate exposure to homogeneous and agreeable information (Bennett & Iyengar, 2008; Pariser, 2011; Stroud, 2008; Sunstein, 2001), research is divided
about this possibility. Some suggest that these fears may be exaggerated (Bakshy, Messing, & Adamic, 2015; Diehl, Weeks, & Gil de Zúñiga, 2016; Nelson & Webster, 2017; Weeks et al., 2016), and others suggest that online environments may actually promote more heterogeneous information exposure (Barberá, 2015; Barberá, Jost, Nagler, Tucker, & Bonneau, 2015; Messing & Westwood, 2014).

**Current Studies**

Across four studies, the present research addresses the two previously untested routes of de facto selectivity: (a) vicarious selective exposure, and (b) evaluating information from a liked other. First, Studies 1 and 2 focus on information selectors and how their selection decisions are influenced by the recipient’s likability. Study 1 examines information selection for a novel issue (i.e., selector has no attitude), whereas Study 2 examines selection for a familiar issue (i.e., selector has an attitude). Then, Studies 3 and 4 examine information recipients as a function of the selector’s likability and the congeniality of the received information. In doing so, Studies 3 and 4 assess recipients’ perceptions of informational bias and the factors that influenced their information environment.

**Study 1**

The goal of Study 1 was to assess how people make informational choices for other people. Specifically, Study 1 examined how informational choices varied by the information recipient’s likability and stance on the issue at hand. In Study 1, all participants were selectors and were tasked with choosing information for alleged recipients about a fictitious intelligence test—the “MEQ”—to assess how such information selection for others occurs with a novel issue (i.e., one that participants did not have a preexisting attitude about).

**Method**
Participants. One hundred seventy-five American adults were recruited through Amazon Mechanical Turk (MTurk) for $1.00. Participants were screened using two criteria: (1) if they indicated that their data was not of high quality ($n = 2$); and (2) if they failed an attention check that read, “If you are reading this question, please leave it blank” ($n = 19$). The final sample consisted of the remaining 154 participants (55.2% female; 76.6% non-Hispanic White; $M_{\text{age}} = 37.77$ years, $SD = 12.17$ years).

Design. Study 1 had a between-subject design with two independent variables. The first, likability of the participant’s fictitious partner (i.e., the alleged information recipient), had two levels: (a) likable partner, whose responses to questions about themselves indicated that they valued time with family and friends, were passionate about life, and that they took pride in being an honest, hardworking MTurk worker; or (b) unlikable partner, whose responses to questions about themselves indicated that they were uninterested in other people, enjoyed manipulating other people, and took pride in being a deceitful, dishonest MTurk worker motivated by money. The second independent variable, the fictitious partner’s perception of the fictitious MEQ intelligence test, also had two levels: (a) valid, with the partner indicating that they had done well on the test and considered it a “good and genuine measure of my intelligence”; or (b) invalid, with the partner indicating that they had done poorly on the test and that it was “complete garbage” and “not a good test.” Study 1 had a 2 (partner likability: likable or unlikable) x 2 (partner’s perception of MEQ: valid or invalid) design. See the Appendix for full descriptions of both manipulations.

Procedure. Participants were told that the purpose of Study 1 was to test the use of “a quick, easy-to-administer type of intelligence test.” Participants were informed that some other participants had already taken the test and would be returning for another study session in which
they would read articles about the test that had been selected for them; the researchers were interested in transmitting this information electronically and were asking participants to select test-relevant information for the other participants in order to “remove the role of the experimenter in assigning these articles.” Participants were also informed that the identities of themselves and their partner would remain anonymous.

Next, participants completed questions about themselves for their partner to read when the partner received the articles that the participant had selected for them. Participants were also told that they would have access to their partner’s responses to these same questions after providing their responses. Participants answered seven questions about: (1) gender; (2) occupation; (3) favorite color; (4) hobbies or leisure activities; (5) one unique trait they have; (6) personal values; and (7) what they enjoy about being a Mechanical Turk worker. After answering these questions, participants saw their alleged partner’s responses, which were randomly assigned to be likable or unlikable. Participants were then told that they were in the information selection phase of the study and that they could read their alleged partner’s impression of the test before selecting articles for them. Participants were then randomly assigned to view a response from a partner who viewed the test as either valid or invalid.

Lastly, participants selected articles about the test for their partner, evaluated their partner and the selected articles, and completed demographic measures.

**Measures.**

*Article selection.* Participants saw the thesis statements of eight articles about the MEQ test; four statements supported the MEQ’s validity, and four opposed its validity. Each statement conveyed whether the article supported or opposed the test’s validity as a measure of intelligence. For each of the eight articles, participants had a binary choice of selecting, “Yes,
send to my partner” or “No, do not send to my partner.” Participants could send between zero and eight articles.

**Hedonic experience.** In response to the question, “When thinking about the article(s) you selected, how much would your partner…” participants used a 7-point scale (1 *not at all* – 7 *extremely*) to rate how much their partner would: (a) want to read the article(s); (b) agree with the article(s); (c) enjoy the article(s); (d) feel annoyed by the article(s); and (e) dislike the article(s). Items (d) and (e) we reverse-coded, and a composite mean of these five measures was constructed due to high internal reliability (Cronbach’s $\alpha = .92$).

**Utility.** In response to the prompt, “When thinking about the article(s) you selected…” participants used a 7-point scale (1 *not at all* – 7 *extremely*) to rate: (a) how much the selected article(s) would inform their partner about the MEQ; (b) how much knowledge about the MEQ their partner would gain by reading the article(s); and how much their partner would perceive the articles as (c) reliable, (d) valid), and (e) credible. A composite mean of these five measures was constructed due to high internal reliability ($\alpha = .91$).

**Evaluations of partner.** Using a 5-point scale (1 *not at all* – 5 *extremely*) participants evaluated their alleged partner on seven dimensions: (a) hardworking; (b) warm; (c) lazy; (d) likable; (e) cold; (f) overall impression; and (g) desire to interact with partner. Items (c) and (e) were reverse-coded, and a composite mean of these seven measures was constructed due to high internal reliability ($\alpha = .95$).

**Demographics.** Participants indicated their sex (*female*; *male*; or *prefer not to answer*), age, and racial/ethnic origin (1 *American Indian or Alaska Native*; 2 *Asian or Pacific Islander*; 3 *Black, not of Hispanic origin*; 4 *Hispanic*; 5 *White, not of Hispanic origin*; or 6 *Other*).
Analytic strategy. Consistent with selective exposure research (e.g., Hart et al., 2009), all article selections were recoded by their congeniality to the alleged partner based on that partner’s perceptions of the MEQ. For instance, for partners who scored well on the MEQ and believed it was a valid measure of intelligence, pro-MEQ articles were coded as congenial, whereas anti-MEQ articles were coded as uncongenial; the opposite set of coding applied to partners who scored poorly on the MEQ and viewed it as an invalid measure of intelligence. A difference score of the number of congenial articles minus the number of uncongenial articles (common practice in selective exposure research; e.g., Hart et al., 2009) was constructed to reflect the degree of congeniality bias in participants’ article selections for the recipient. Positive congeniality bias scores indicate that the recipient saw more congenial (vs. uncongenial) articles, whereas negative scores indicate seeing more uncongenial (vs. congenial) articles.

Results

Evaluations of partner. As a manipulation check of likability, participants in the likable partner condition rated their partners significantly more favorably \( (M = 4.03, SD = 0.57) \) than those in the unlikable partner condition \( (M = 1.91, SD = 0.82) \), \( F_{1,142} = 314.98, p < .001, d = 3.00 \).

Partner evaluations were unaffected by the partner’s perceived validity of the MEQ \( (F_{1,142} = 0.12, p = .730) \) and the interaction of the two factors \( (F_{1,142} = 0.42, p = .519) \).

Article selection. Participants selected an average of 3.81 \( (SD = 1.61) \) articles out of eight possible for their alleged partner, and this number was unaffected by the independent variables (likability: \( F_{1,150} = 0.07, p = .797 \); validity: \( F_{1,150} = 0.00, p = .957 \); interaction: \( F_{1,150} = 0.47, p = .493 \)).

Next, an analysis of variance (ANOVA) examined the effects of likability and validity on congeniality bias. Results found a significant main effect of likability \( (F_{1,150} = 18.46, p < .001, d = \)
0.49), but no effects of validity ($F_{1,150} = 0.10, p = .749$) or the interaction of the two ($F_{1,150} = 0.02, p = .894$). Participants with likable partners showed a significantly greater congeniality bias ($M = 1.31, SD = 3.82$) than those with unlikable partners ($M = -0.56, SD = 3.80$), indicating that participants chose more congenial information for likable partners, but more uncongenial information for unlikable partners. See Figure 2.

![Figure 2](image-url)

**Figure 2.** Mean congeniality bias scores as a function of partner likability condition, Study 1.

Scores represent the difference of the number of uncongenial articles chosen from the number of congenial articles chosen. Error bars represent standard errors.

**Hedonic experience.** A linear regression of perceptions of the partner’s hedonic experience from the articles on congeniality bias was significant, $B = 0.87, SE = 0.10, \beta = 0.58, t = 8.86, p < .001, R^2_{\text{adj}} = .34$. Mediational analysis using PROCESS for SPSS (Model 4, 10,000 bootstrap samples; Hayes, 2013) found a significant indirect effect of partner likability on information congeniality via perceived hedonic experience ($B = 1.19, SE = 0.20, 95\% \text{ CI} [0.82,
1.61], indicating that the more participants considered the hedonic experience of the recipient, they more they chose congenial information.

**Utility.** A linear regression of the partner’s perceived utility from the articles on congeniality bias was not significant ($B = -0.07, SE = 0.18, \beta = -0.03, t = -0.40, p = .692$), indicating that participants’ information choices were unrelated to perceptions of how much utility their partners would derive from the articles. Meditational analysis found no indirect effect of likability condition on congeniality via utility ($B = -0.09, SE = 0.06, 95\% \ CI [-0.22, 0.03]$).

**Discussion**

Study 1 points to two conclusions about how people choose information for others in the context of a novel issue. First, participants were attentive not just to their partner’s stance on the issue, but to that partner’s likability. Participants chose largely congenial information for likable partners but mostly uncongenial information for unlikable partners, indicating that participants rewarded likable recipients with information supporting their views, but punished unlikable recipients with information that opposed their views.

Second, choosing congenial (vs. uncongenial) information for partners was associated with a motivation to increase partners’ hedonic experiences, but not utility. Thus, participants chose mostly congenial information for likable partners because they anticipated their partners would find that information enjoyable to read, but not necessarily useful.

Next, Study 2 examines information selection for others as a function of the recipient’s likability and stance on the issue, but an issue for which participants already hold an attitude.

**Study 2**

Like Study 1, Study 2 examines the influence of likability on information choice for others, but for a divisive issue for which participants are likely to hold an attitude: gun control.
Therefore, beyond likability, Study 2 examines how agreement on gun control between the information selector and recipient influences information choice.

**Method**

**Participants.** Two hundred five American adults were recruited through MTurk for $1.00. Like Study 1, participants were excluded for indicating that their data was not of high quality (n = 2) or failing the attention check (n = 17). The final sample was 186 participants (50.0% female; 76.9% non-Hispanic White; M_{age} = 37.64 years, SD = 13.62 years).

**Design and procedure.** Study 2 was very similar to Study 1, with one difference from Study 1: The topic in Study 2 was gun control—a known issue—instead of the MEQ test. Otherwise, Study 2 used the same cover story, independent variable manipulations (but with gun control), and procedure as Study 1. (See Appendix for manipulations.) Like Study 1, participants in Study 2 were aware of their alleged partner’s gun control attitude before selecting gun control articles for them. The added gun control attitude measures (detailed below) all occurred after the article selection phase.

**Measures.** Measures of hedonic experience (α = .85), utility (α = .86), evaluations of partner (α = .95), and demographics were the same as Study 1. Study 2 added the following measures:

**Article selection.** Like Study 1, the article selection in Study 2 presented participants with eight thesis statements that either supported or opposed—four statements of each variety—but with the issue of gun control.

**Selection factors.** After article selection, participants indicated the extent to which various factors influenced their selection decisions. On a 7-point scale (1 not at all – 7 extremely), participants indicated the influence of: (a) my own beliefs and attitudes; (b) my
partner’s beliefs and attitudes; (c) my personality; (d) my partner’s personality; (e) I chose articles at random; and (f) other (please specify).

**Gun control attitude.** Participants’ gun control attitudes were calculated by averaging responses to six semantic differential scales (*desirable-undesirable*, *foolish-wise*, *good-bad*, *harmful-beneficial*, *necessary-unnecessary*, and *positive-negative*), from 1 to 9 ($\alpha = .99$).

**Gun control stance.** Using a binary response (1 pro-gun control; 2 anti-gun control), participants indicated their gun control stance.

**Analytic strategy.** A binary “partner agreement” variable was constructed using the fictitious partner’s binary stance on gun control (pro or anti) and the participant’s stated stance on gun control. Regardless of direction of stance, a score of -1 was assigned when the participant’s gun control stance did not align with their partner’s, and a score of 1 was assigned when the two stances aligned. Binary logistic regression found that the six-item gun control attitude composite significantly predicted a participant’s binary gun control stance, $B = 1.17$, $SE = 0.18$, Wald = 42.93, $\beta = 3.23$, $p < .001$.

Like Study 1, articles were recoded by congeniality to the alleged partner based on that partner’s gun control stance. A congeniality bias difference score was constructed by subtracting the number of uncongenial articles chosen from congenial articles chosen (like Study 1).

**Results**

**Evaluations of partner.** As a manipulation check of likability, participants in the likable partner condition rated their partners significantly more favorably ($M = 3.84$, $SD = 0.63$) than those in the unlikable partner condition ($M = 1.86$, $SD = 0.73$), $F_{1,163} = 349.91$, $p < .001$, $d = 2.90$. Partner evaluations were unaffected by whether the participant and partner agreed on gun control ($F_{1,163} = 1.16$, $p = .282$) or the interaction of both factors ($F_{1,163} = 0.19$, $p = .663$).
**Article selection.** Participants selected an average of 3.90 ($SD = 1.66$) articles out of eight possible for their partner, which was unaffected by the independent variables (likability: $F_{1, 173} = 0.66, p = .418$; agreement: $F_{1, 173} = 0.02, p = .897$; interaction: $F_{1, 173} = 2.37, p = .125$).

Using the congeniality bias difference score, ANOVA indicated that when choosing information for a partner, participants still exhibited a significant selective exposure bias (Hart et al., 2009) based on their own preferences, regardless of congeniality ($F_{1, 182} = 67.25, p < .001, d = 1.32$). Participants with an anti-gun control stance chose more anti-gun control articles for their partner ($M = -1.57, SD = 2.22$), whereas those with a pro-gun control stance chose more pro-gun control articles for their partner ($M = 1.19, SD = 1.97$). The information recipient’s gun control stance ($F_{1, 182} = 0.28, p = .597$) and the interaction of both factors ($F_{1, 182} = 0.70, p = .406$) did not affect information selection.

Next, ANOVA examined the effect of two factors—partner likability and participant-partner agreement on gun control—on congeniality bias. There was no main effect of partner likability ($F_{1, 173} = 0.63, p = .427$), but there was a significant effect of partner agreement ($F_{1, 173} = 66.90, p < .001, d = 1.21$) and an interaction of likability and agreement ($F_{1, 173} = 4.94, p = .028, \eta^2_p = .028$). For partner agreement, partners who agreed with the participant received mostly congenial information ($M = 1.36, SD = 2.08$), whereas those who disagreed received mostly uncongenial information ($M = -1.20, SD = 2.14$). This is consistent with the previous analysis showing that participants generally selected what they—not their partners—preferred based on their own gun control views. Finally, the interaction of likability and agreement found that although the congeniality of articles chosen for the information recipient was primarily influenced by agreement on gun control, these effects were amplified when that partner was likable (vs. unlikable). Partners who agreed with participants received significantly more
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congenial information when they were likable ($M = 1.85, SD = 4.10$) compared to unlikable ($M = 0.90, SD = 3.96; F_{1,m} = 4.92, p = .028, d = 0.24$); for those who disagreed, however, likability made no difference in the amount of congenial information they received ($F_{1,m} = 0.95, p = .332$). See Figure 3.

**Figure 3.** Mean congeniality bias scores as a function of partner likability condition and partner agreement, Study 2. Scores represent the difference of the number of uncongenial articles chosen from the number of congenial articles chosen. Error bars represent standard errors.

**Hedonic experience.** A linear regression of perceptions of the partner’s hedonic experience on congeniality bias was significant, like Study 1 ($B = 0.54, SE = 0.17, \beta = 0.22, t = 3.09, p = .002, R_{\text{adj}} = .05$): When participants considered the hedonic experience of the recipient, they chose more congenial information. Next, mediational analysis (PROCESS Model 4; Hayes,
2013) found that likability significantly influenced hedonic perceptions ($B = 0.39, SE = 0.07, t = 5.79, p < .001, 95\% CI [0.26, 0.53])}, indicating that hedonic experience was considered more for likable (vs. unlikable) partners. There was also a significant indirect effect of likability on congeniality bias via hedonic perceptions ($B = 0.23, SE = 0.09, 95\% CI [0.06, 0.40])}. However, analysis of moderated mediation (PROCESS Model 7; Hayes, 2013) using partner agreement as a moderator of likability on hedonic perceptions found no effect ($B = 0.06, SE = 0.09, 95\% CI [-0.09, 0.27])}, indicating that likability, not partner agreement, influenced whether participants considered recipients’ hedonic experiences.

**Utility.** A linear regression of perceptions of the partner’s utility from the articles on congeniality bias found no association, like Study 1 ($B = 0.10, SE = 0.18, \beta = 0.04, t = 0.57, p = .569$). Mediation ($B = 0.00, SE = 0.02, 95\% CI [-0.02, 0.04]$} and moderated mediation ($B = 0.00, SE = 0.03, 95\% CI [-0.06, 0.07]$} analyses found no effects of likability on congeniality bias via utility perceptions. Thus, participants again did not consider the utility of information for their partners when they chose more congenial information, unlike for hedonic perceptions.

**Selection factors.** Participants’ considerations when selecting articles for their partners were analyzed by creating mean composites for the two self factors (“my personality” and “my beliefs and attitudes”; $r = .55, p < .001$) and the two partner factors (“my partner’s personality” and “my partner’s beliefs and attitudes”; $r = .59, p < .001$). A mixed-model ANOVA with three within-subject selection factors (self factors, partner factors, and random) and two between-subject factors (likability, partner agreement) found no significant effects except for an interaction of likability and selection factors ($F_{1,173} = 3.95, p = .048, \eta_p^2 = .022$). Simple effects analyses revealed that the only significant difference between likable and unlikable partners occurred for the randomness factor ($F_{1,173} = 8.17, p = .005, d = 0.30$): Participants reported relying
on randomness as a factor more for unlikable ($M = 1.88, SD = 1.82$) than likable ($M = 1.32, SD = 1.88$) partners. Thus, likability and partner agreement had no effects on whether participants reported considering self- or partner-oriented factors when choosing information for their partner. That participants did not rely on partner factors is consistent with the results that participants generally relied on their own gun control attitudes to choose information for their partners. However, the finding that participants did not consider their partner’s personality and attitudes is inconsistent with the previous result that likability did affect participants’ information selections.

**Discussion**

Study 2 replicated and expanded upon several findings from Study 1 regarding how people choose information for others, but instead using an issue—gun control—for which participants had an attitude. The major difference between Studies 1 and 2 was that when participants had an attitude about the topic, compatibility of their partner’s attitude on gun control was a significant factor in their selection decisions for that partner; indeed, Study 2 participants generally chose articles that were consistent with their own gun control attitudes, which were congenial to agreeable partners, but not disagreeable ones. However, likability in Study 2 still mattered such that likable (vs. unlikable) partners were rewarded with more congenial information when they agreed with the participant. Thus, participants were even more attuned to likable partners’ attitudes, but not unlikable partners’ attitudes.

Study 2 also replicated Study 1 by showing that congenial information selections were driven by considerations of whether one’s partner would enjoy the information (i.e., hedonic perceptions), but not necessarily if they would find it useful (i.e., utility). Lastly, Study 2 found that participants generally did not consider their partner’s personality or attitudes when selecting
information. Thus, when it came to a contentious political topic, selectors chose based on what they personally found congenial, but not recipients. Although agreeable and likable participants received an extra boost of congenial information, those who were likable but disagreed with the participant on gun control received mostly uncongenial information.

Next, Studies 3-4 examine the opposite perspective in these informational exchanges: How do information recipients view information, and information selectors, as a function of likability and agreement on the issue?

**Study 3**

In Studies 1-2, participants selected information for fictitious partners (i.e., recipients). Study 3 turns to the recipient’s perspective to address several questions raised by the results of Studies 1-2. In Studies 1-2, participants chose more congenial information for partners when they considered their partners’ hedonic experiences, but not utility; in Study 3, will recipients similarly consider congenial information to be more hedonically enjoyable, but not more useful? Studies 1-2 also found this effect particularly for likable recipients; for recipients in Study 3, will the selector’s likability affect their appraisals—hedonic or utility—of received information?

**Method**

**Participants.** One hundred eighty-five undergraduate students (73.3% female; 67.6% non-Hispanic White; $M_{age} = 18.76$ years, $SD = 0.90$ years) enrolled in an introductory psychology course participated for course credit. The stopping point for data collection was determined by the end of the academic semester.

**Design.** Study 3’s design took one of two forms depending on how many participants were in the study at a given time. If there were an even number of participants, then participants were divided evenly between two lab rooms and partnered with one participant of the same sex
in the other lab room; however, participants only communicated with their partners via an Internet chat program and were never introduced face-to-face. In this case, the study involved one between-subject factor: the randomly generated balance of gun control information received (three levels: biased in favor of gun control, balanced, or biased against gun control). These conditions applied to 99 participants in Study 3.

However, if there were an odd number of participants, then the last participant who could not be paired with another participant instead exchanged information with a fictitious selector partner, similar to how selectors in Studies 1-2 exchanged information with a fictitious recipient. These Study 3 participants did not interact with a true partner but were not aware that their experiences were different from those of the other participants who were paired with a true, living partner. For these participants, the study had two between-subject factors: the randomly generated balance of gun control information received (same as participants in the previous condition) and likability of the fictitious partner (likable or unlikable). These conditions applied to 86 participants in Study 3.

**Procedure.** Participants were told that the study’s goal was to assess how various materials could help individuals gain an understanding of a current issue, and that they would be working with another participant to complete an information reviewing task. Participants were always told that their partner was randomly chosen to be the information “selector,” leaving them to be the information “receivers.” Participants were told that should review the information allegedly selected by their partner. Before the reviewing task, participants were informed that they would first engage in a brief exercise to get to know their partner.

For participants who were paired with an actual partner (located in a different room), a survey guided them through the Relationship Closeness Induction Task (RCIT; Sedikides,
Campbell, Reeder, & Elliot, 1999). During the task, individuals take turns answering 3 lists of questions designed to induce interpersonal closeness and familiarity. Each list contains 7-12 questions (e.g., “What are your hobbies?” or “What is something you have always wanted to do but probably will never be able to do?”) designed to elicit reciprocal conversation. Participants interacted with each other only via an instant-messaging program and posted responses to each question in the program’s chat window. See Appendix for full RCIT questionnaire.

For participants with a fictitious partner (whom they believed was located in another room), a survey guided them through a series of prompts to exchange some personal information with the fictitious partner. These questions were the same as those in Studies 1-2, except for the question about one’s MTurk worker experience. The “selector’s” responses to these questions were designed to make the individual seem likable or unlikable (like Studies 1-2). See Appendix for manipulation.

After this interaction, participants were told that gun control was the randomly chosen issue of focus for the study and reported their gun control attitudes; which they were told their partner (the selector) had access to. Then, participants were randomly assigned to one of three information conditions: biased in favor of gun control, with three pro-gun control messages and one anti-gun control message; balanced, with two pro- messages and two anti- ones; or biased against gun control, with one pro- message and three anti- ones. Across all conditions, articles were randomly generated from batches of four pro- and four anti- messages. After reading the messages, participants evaluated them for hedonic experience and utility.

Lastly, participants completed evaluation measures of their partner, perceived similarity of their gun control views to their partner and the average American, and demographic questions.
Measures. All measures of hedonic experience ($\alpha = .77$), utility ($\alpha = .87$), partner evaluations ($\alpha = .93$), gun control attitude ($\alpha = .96$), gun control stance, and gun control consensus were the same as Study 2. The following measures were added:

Perceptions of bias. After reading all the gun control messages, participants completed four measures designed to assess perceptions of the objectivity (or bias) of the information they received. All four measures used 7-point scales (1 not at all to 7 very much) and participants indicated to what extent the gun control information they read: (a) accurately represented their own opinion on gun control; (b) accurately represented multiple points of view on gun control; (c) was useful to them for understanding gun control; and (d) was useful for the average American for understanding gun control.

Gun control similarity. Like gun control consensus, participants estimated the perceived similarity of their partner’s gun control attitude with their own using a slider scale (0 least similar – 100 most similar).

Analytic strategy. At the end of the study, participants in the live partner condition were asked whether or not they knew their partner. Nine participants reported knowing their partners and were excluded from analyses due to the chance that their experience was significantly different from those who did not know their partners before the RCIT (Sedikides et al., 1999).

Like prior studies, the information balance conditions were recoded as a function of congeniality to the recipient (the participant) based on their dichotomous stance on gun control. Binary logistic regression found that the six-item gun control attitude composite predicted a participant’s binary gun control stance, $B = 2.00$, $SE = 0.40$, Wald = 2.76, $\beta = 7.42$, $p < .001$.

Results
**Hedonic experience.** ANOVA of partner condition (fictitious or real) and information congeniality on hedonic experience found a main effect of information congeniality ($F_{2,167} = 3.15$, $p = .045$, $\eta^2_p = .04$), but no effect of partner condition ($F_{1,167} = 1.30$, $p = .255$) or the interaction of the two ($F_{2,167} = 0.50$, $p = .607$). Participants rated information as significantly more negative when they received largely uncongenial information ($M = 4.05$, $SD = 1.02$) compared to the congenial ($M = 4.40$, $SD = 0.95$; $p = .030$) and balanced ($M = 4.41$, $SD = 0.98$; $p = .030$) conditions. The congenial and balanced conditions did not differ significantly ($p = .956$).

Within just the fictitious partner condition, there was a marginal effect of likability ($F_{1,80} = 3.50$, $p = .065$), but no effects of information congeniality ($F_{2,80} = 1.03$, $p = .362$) or their interaction ($F_{2,80} = 2.49$, $p = .089$) on hedonic ratings. However, within just the RCIT partner condition, hedonic ratings were positively associated with evaluations of the selector ($B = 0.30$, $SE = 0.10$, $\beta = 0.32$, $t = 3.06$, $p = .003$), but did not differ by information congeniality ($F_{2,84} = 1.60$, $p = .209$).

**Utility.** ANOVA of the two independent variables on utility ratings of the received information found no effects of partner condition ($F_{2,169} = 0.54$, $p = .462$), information congeniality ($F_{2,169} = 1.74$, $p = .178$), or their interaction ($F_{2,169} = 0.31$, $p = .732$). Within just the fictitious partner condition, there were no effects of likability ($F_{1,79} = 0.49$, $p = .485$), information congeniality ($F_{2,79} = 1.58$, $p = .212$), or their interaction ($F_{2,79} = 0.28$, $p = .755$) on utility ratings. However, within just the RCIT partner condition, utility ratings were positively associated with evaluations of the selector ($B = 0.30$, $SE = 0.11$, $\beta = 0.28$, $t = 2.71$, $p = .008$), but did not differ by information congeniality ($F_{2,87} = 0.62$, $p = .538$). This finding differs from Studies 1-2, in which selectors did not expect likable recipients to derive more utility from
information. Here, recipients in the RCIT condition derived additional hedonic enjoyment and utility from information chosen by likable selectors.

**Evaluations of partner.** As a manipulation check in the fictitious partner condition only, ANOVA found a significant effect of likability condition \((F_{1, 82} = 126.27, p < .001, d = 2.45)\), indicating a successful manipulation: Likable fictitious partners were rated more positively \((M = 5.96, SD = 1.01)\) than dislikable fictitious partners \((M = 3.13, SD = 1.28)\).

Next, we used ANOVA to assess the effects of information congeniality condition and partner condition on partner evaluations. Analyses indicated a marginal effect of information congeniality \((F_{2, 168} = 2.84, p = .061, \eta^2 = .03)\), indicating that participants who received mostly uncongenial information viewed their partners less positively \((M = 5.34, SD = 2.59)\) than those who received balanced \((M = 5.92, SD = 2.55; p = .039)\) or mostly congenial \((M = 5.90, SD = 2.47; p = .040)\) information; the congenial and balanced conditions did not differ significantly \((p = .966)\). There was also a main effect of partner condition \((F_{1, 168} = 126.88, p < .001, d = 1.61)\), showing that participants with live partners had significantly more positive impressions \((M = 6.97, SD = 2.02)\) than those with fictitious partners \((M = 4.47, SD = 2.11)\). Finally, there was a significant information congeniality by partner condition interaction \((F_{2, 168} = 4.24, p = .016, \eta^2 = .05)\). For participants paired with fictitious partners, the congeniality of information received mattered significantly \((F_{2, 80} = 5.90, p = .003, \eta^2 = .07)\): Participants who received mostly uncongenial information viewed their partners less positively than those who received balanced \((M_{\text{diff}} = -1.08, SE = 0.41; p = .009)\) and mostly congenial \((M_{\text{diff}} = -1.34, SE = 0.40; p = .001)\) information. However, for participants with live partners, the type of information received had no effect on their partner evaluations \((F_{2, 80} = 0.30, p = .740)\). See Figure 4.
These results suggest two conclusions. First, engaging in the RCIT (Sedikides, 1999) with a live partner almost always led to a positive interaction. Second, these highly positive views of one’s partner appeared to blunt any effects of the congeniality of the information ostensibly chosen by one’s partner. Participants with fictitious partners judged partners differently according to the balance of information they received, whereas participants with (mostly likable) live partners did not use that information to inform their partner evaluations.

**Gun control consensus.** ANOVA found no effects of information congeniality ($F_{2,109} = 1.58, p = .209$), partner condition ($F_{2,109} = 2.37, p = .126$), or their interaction ($F_{2,109} = 0.40, p = .673$) on the perceived percentage of Americans who share the participant’s views on gun control. When split out by partner condition, there were no significant effects.
Gun control similarity. ANOVA indicated effects of information congeniality ($F_{2.06} = 10.06, p < .001, \eta^2 = .11$) and partner condition ($F_{1.99} = 10.93, p = .001, d = 0.37$) on perceived similarity of the selector’s views on gun control, although no interaction of the two ($F_{2.06} = 1.47, p = .323$). For information congeniality, participants perceived greater attitudinal similarity with their partner after receiving mostly congenial ($M = 62.65, SD = 35.35$) compared to balanced ($M = 51.57, SD = 36.09; p = .004$) and mostly uncongenial ($M = 45.43, SD = 37.66; p < .001$) information. The balanced and uncongenial conditions did not differ significantly ($p = .122$). For partner condition, participants with live partners ($M = 58.48, SD = 29.17$) perceived more similar gun control views with their partners than those with fictitious partners ($M = 47.95, SD = 30.23$).

Within the fictitious partner condition, there was an effect of likability ($F_{1.79} = 7.09, p = .009, d = 0.41$) such that likable partners were perceived as more attitudinally similar ($M = 55.07, SD = 33.71$) than unlikable partners ($M = 41.66, SD = 31.96$). There was also a significant effect of information congeniality ($F_{1.79} = 6.30, p = .003, \eta^2 = .14$) that mirrored the effect for the combined data, but no interaction of the two ($F_{2.79} = 0.26, p = .770$). For the RCIT condition, there was no significant effect of information congeniality ($F_{1.86} = 2.67, p = .075$), but attitudinal similarity was positively associated with selector likability ($B = 5.23, SE = 2.80, \beta = 0.30, t = 2.90, p = .005$).

Perceptions of bias. In their assessments of how useful and accurate the information they read was, participants were significantly influenced by information congeniality for measures of the articles’ accuracy in representing their own view on gun control ($F_{2.06} = 8.65, p < .001, \eta^2 = .09$) and multiple points of view on the issue ($F_{2.06} = 9.17, p < .001, \eta^2 = .10$). Measures of usefulness to oneself and to the average American were not significantly influenced by information congeniality condition.
For their own opinion on gun control, participants (rightly) felt their views were most accurately represented when they received mostly congenial information \((M = 4.46, SD = 1.81)\) compared to mostly uncongenial \((M = 3.64, SD = 1.90; p < .001)\) and balanced \((M = 4.07, SD = 1.85; p = .046)\) information; the uncongenial and balanced conditions also differed significantly \((p = .033)\).

For the accuracy in representing multiple points of view, participants displayed a different pattern that was probably accurate: Participants who received balanced information rated it as being most representative of multiple points of view on gun control \((M = 5.65, SD = 2.83)\) compared to mostly congenial \((M = 4.42, SD = 2.75; p < .001)\) and mostly uncongenial \((M = 4.73, SD = 2.91; p = .003)\) information. The congenial and uncongenial conditions did not differ significantly \((p = .304)\).

However, participants displayed more biased perceptions of the information they read as a result of how much they liked the information selector. Controlling for the actual balance of information they read, hierarchical linear regressions using partner evaluations indicated that having a likable partner led participants to see the information they read as useful for themselves \((B = 0.13, SE = 0.06, \beta = 0.17, t = 2.29, p = .023, sr^2 = .03)\) and the average American in understanding gun control \((B = 0.19, SE = 0.06, \beta = 0.25, t = 3.32, p = .001, sr^2 = .06)\). But, having a more likable partner did not affect participants’ ratings of how accurately the information represented their own point of view \((B = 0.07, SE = 0.04, \beta = 0.11, t = 1.54, p = .125)\) or multiple points of view \((B = 0.12, SE = 0.07, \beta = 0.13, t = 1.75, p = .082)\).

**Discussion**

Study 3 pointed to several conclusions about how likability, interaction closeness, and information congeniality affects recipients’ views of information and its selector. Hedonic and
utility ratings of information, regardless of congeniality, were associated with positive evaluations of the alleged selector for actual (RCIT) partners, but not fictitious ones. This indicates somewhat of a mismatch between recipients and selectors: The selectors in Studies 1-2 expected information to be more hedonically enjoyable as it became more congenial, but Study 3 recipients were more attuned to the likability of the selector (especially with live partners). Another mismatch came from utility ratings: Study 3 recipients found information more useful both when it came from likable selectors (especially with actual partners), despite the findings in Studies 1-2 that congenial information was not expected to be more useful to the recipient.

When it came to partner evaluations, there was a significant divide between having a fictitious or actual partner: Fictitious partners’ evaluations were contingent upon the balance of information that they ostensibly chose for the participants, but actual partners’ evaluations were mostly unaffected by information congeniality. The actual partners in the RCIT condition were also evaluated much more favorably than even the likable, fictitious partners, indicating that the increased closeness of the RCIT not only led to a more positive selector-recipient bond, but also blunted any negative effects of receiving uncongenial information.

Although partner condition and information congeniality had no effects on perceived attitudinal consensus in the U.S. about gun control, they did affect perceptions of attitudinal similarity with the selector: Participants perceived greater similarity with likable partners and partners they believed had chosen mostly congenial information for them. Lastly, when it came to perceptions of bias, participants’ views of the utility of the information they received—regardless of congeniality—was affected by the partner likability: When participants liked the alleged selector, they saw the information they received as being more useful to themselves and the average American.
Study 4 again examines recipients who receive random balances of information from alleged selectors, but with two changes from Study 3. First, Study 4 only uses the RCIT (i.e., no fictitious partner condition). But, because Study 3 participants overwhelmingly enjoyed their RCIT partners, Study 4 pairs some participants with a scripted, unlikable RCIT partner. Second, Study 4 measures why recipients think their selection of information was chosen for them.

**Study 4**

Study 4 had the goal of replicating Study 3 with a bigger sample, in a context of increased interpersonal closeness (i.e., RCIT), and with an unlikable confederate to increase variance in participants’ evaluations of their partners, which were highly positive in Study 3. Study 4 also examined participants’ perceptions of why they received their particular batch of gun control information, which was actually assigned at random. These measures aimed to shed light *de facto* selective exposure processes; in particular, we were interested in assessing the extent to which participants believed they actively influenced their own information environments. For example, if participants believed that they received information because of their own personality or attitudes (i.e., believing they had agentic influence) would illustrate belief in attitude selectivity and relative unawareness of *de facto* selective exposure influences.

**Method**

**Participants.** One hundred sixty-six undergraduate students (53.20% female; 69.50% non-Hispanic White; $M_{age} = 18.74$ years, $SD = 0.91$ years) enrolled in an introductory psychology course participated for course credit. The stopping point for data collection was determined by the end of the academic semester.

**Design.** Like Study 3, the design and procedure of Study 4 differed depending on the number of participants in a time slot. Across all participants, there was one between-subject
factor in Study 4: balance of gun control information. When an even number of participants were present, the design was the same as the even-number condition in Study 3: Participants were paired with a live partner in another lab room, and they had an organic interaction with this partner using the RCIT (Sedikides et al., 1999). This condition applied to 126 participants.

When an odd number of participants were present, they had a slightly different study experience (unbeknownst to them), like the odd participants in Study 3. However, this odd participant in Study 4 still interacted with a live partner, though this partner was actually a confederate from the research team (“Alex”) who completed the RCIT using a pre-tested script designed to make them seem unlikable. These odd participants were routed into this “unlikable confederate” condition in order to fully utilize the number of participants available at a given time (like Study 3), but also to add variance in participants’ evaluations of their partners, which were highly positive in Study 3. This condition applied to 28 participants.

Procedure. The procedure for Study 4 was almost identical to Study 3, with two exceptions. First, the odd participants interacted with a live confederate instead of a fictitious, nonexistent participant (as in Study 3). This confederate’s scripted responses to the RCIT questions were deliberately rude and pompous; for example, in response to the question, “What are your hobbies?” the confederate responded: *no point in telling you… it’s not like we would ever hang out*. Or, in response to the question, “What is one habit you’d like to break?” the confederate responded: *i always stop for pedestrians who are trying to cross the street, but what’s the point? i got places to be*. See Appendix for full responses.

Second, Study 4 added measure to assess participants’ perceptions of the factors that influenced the balance of information they received.
Measures. All measures of hedonic experience ($\alpha = .76$), utility ($\alpha = .85$), partner evaluations ($\alpha = .93$), bias perceptions, gun control attitude ($\alpha = .99$), gun control stance, gun control consensus, and perceived similarity of the selector’s gun control attitude were the same as Study 3. The following measures were added:

Box model. Adapted from Pronin and Kugler (2010), the box model was designed to let participants visually express the relative influence of various factors on a given outcome. To measure how participants perceived the relative influence of various factors on their partner’s ostensible choice of gun control messages for them, participants were asked to think about their partner’s choice of information for them and consider what factors influenced that decision. Participants were provided with five suggested factors that could have influenced this decision: (1) your own beliefs and attitudes; (2) your personality; (3) your partner’s beliefs and attitudes; (4) your partner’s personality; and (5) random chance. Participants were told that this list was not exhaustive and that they could use or exclude any factor; they could also write in any other factors not covered by these five.

Using graph paper and a pencil, participants drew a box for each of the factors they felt was relevant to the outcome of their partner’s choice of information for them, with an arrow going from each factor to that common outcome. The relative influence of each factor was depicted by the size of the box representing that factor; the larger the box for a factor, the greater the influence of that factor on the outcome. Weightings of each factor were calculated by computing the area of the box for each factor divided by the total area of all the factor boxes combined. The instructions and an example box model are available in the Appendix.
Analytic strategy. Like Study 3, participants in the live partner condition indicated whether they knew their partner at the end of the study. Twelve participants reported knowing their partners and were therefore excluded from analyses.

Like prior studies, the information balance conditions were recoded as a function of congeniality to the recipient (the participant) based on their dichotomous stance on gun control. Binary logistic regression found that the six-item gun control attitude composite predicted a participant’s binary gun control stance, $B = 1.70, SE = 0.34, \text{Wald} = 24.56, \beta = 5.48, p < .001$.

All analyses that incorporate participants’ partner evaluations as a factor in ANOVA use a continuous, standardized version of the composite evaluations that is analyzed at three levels: one standard deviation below the mean, one standard deviation above the mean, and mean level.

Results

Hedonic experience. For participants’ hedonic experience of the articles, ANOVA indicated a significant effect of information congeniality condition ($F_{2,135} = 3.77, p = .025, \eta^2_p = .053$): Participants rated the information as more hedonically pleasing when they received mostly congenial information ($M = 4.50, SD = 1.06$) compared to both balanced ($M = 4.02, SD = 0.97; p = .064$) and uncongenial ($M = 3.83, SD = 1.27; p = .003$) information; balanced and uncongenial did not significantly differ ($p = .290$). A main effect of participants’ partner evaluations also occurred ($F_{1,135} = 7.09, p = .009, \eta^2_p = .050$) such that participants who liked their partners more also rated the information they read more positively. There was no significant interaction of information congeniality and partner evaluations ($F_{2,135} = 1.56, p = .213$). See Figure 5.
Utility. For ratings of information utility, ANOVA found a significant effect of information congeniality ($F_{2,134} = 3.37, p = .037, \eta^2 = .048$), which followed a similar pattern as hedonic ratings: mostly congenial information was seen as more useful ($M = 4.04, SD = 0.95$) than balanced ($M = 3.52, SD = 1.17; p = .044$) or mostly uncongenial ($M = 3.45, SD = 1.13; p = .010$) information; again, balanced and uncongenial conditions did not differ significantly ($p = .677$). Like hedonic ratings, a main effect of partner evaluations occurred ($F_{1,134} = 9.67, p = .002, \eta^2 = .067$), again following a similar pattern as the hedonic ratings. Lastly, there was again no significant two-way interaction ($F_{2,134} = 1.07, p = .344$). See Figure 6.
Figure 6. Mean utility ratings of information as a function of information congeniality and evaluation of partner. Evaluation of partner is plotted at minus one standard deviation below the mean, mean level, and plus one standard deviation above the mean. Error bars represent standard errors.

Evaluations of partner. As a manipulation check, ANOVA found a significant effect of partner condition ($F_{1,135} = 255.20, p < .001, d = 2.97$): Participants reported more positive impressions of live partners ($M = 6.61, SD = 0.96$) than the unlikable confederate ($M = 3.03, SD = 1.41$), indicating a successful manipulation.

In addition, there was a significant effect of information congeniality ($F_{2,130} = 6.30, p = .002, \eta^2 = .085$) such that participants evaluated partners who sent them congenial information more positively ($M = 6.26, SD = 1.55$) than partners who sent balanced ($M = 5.96, SD = 1.73; p = .002$) and uncongenial ($M = 5.63, SD = 1.90; p = .004$) information; balanced and uncongenial conditions did not differ significantly ($p = .504$).
There was also a marginally significant interaction of partner condition and information congeniality ($F_{2,135} = 2.72, p = .069, \eta^2 = .039$). Participants in the unlikable confederate condition used the congeniality of the information they received to inform their opinions of their partner ($F_{2,135} = 5.14, p = .007, \eta^2 = .071$): An unlikable partner who allegedly chose mostly congenial information was evaluated more positively ($M = 3.87, SD = 1.78$) than unlikable partners who chose balanced ($M = 2.26, SD = 0.74; p = .003$) or mostly un congenial ($M = 2.75, SD = 1.03; p = .016$) information; the un congenial and balanced conditions did not differ significantly ($p = .346$). However, participants with live (and generally likable) partners were not influenced by information congeniality when evaluating their partners ($F_{2,135} = 1.34, p = .265, \eta^2 = .020$). Therefore, like Study 3, results indicate that when participants have a likable partner, the congeniality of information they receive does not influence their partner evaluations.

**Gun control consensus.** When estimating the percentage of Americans who shared their attitude on gun control, participants were not affected by information congeniality ($F_{2,134} = 1.84, p = .163$), partners evaluations ($F_{1,134} = 0.66, p = .418$), or an interaction of the two ($F_{2,134} = 1.62, p = .203$).

**Gun control similarity.** When estimating the similarity of their partner’s gun control views with their own, participants were again influenced by the information they received, with a significant effect of information congeniality ($F_{2,134} = 7.10, p = .001, \eta^2 = .096$): Participants who received mostly congenial information estimated the greatest similarity between themselves and their partners ($M = 65.40\%, SD = 21.57$), more so than those who received neutral ($M = 53.60\%, SD = 22.00; p = .029$) and mostly un congenial ($M = 45.08\%, SD = 24.66; p < .001$) information; balanced and un congenial conditions did not differ significantly ($p = .144$). Participants’ partner evaluations also resulted in a significant effect ($F_{1,134} = 18.03, p < .001, \eta^2 = .119$) such that
participants perceived more agreement between themselves and more likable partners. There was no significant two-way interaction \((F_{1,134} = 0.35, p = .702)\).

**Perceptions of bias.** Participants were significantly influenced by information congeniality for measures of the articles’ accuracy in representing their own point of view on gun control (like Study 3; \(F_{1,134} = 15.69, p < .001, \eta^2 = .189\)), multiple points of view on gun control (also like Study 3; \(F_{1,134} = 3.66, p = .028, \eta^2 = .052\)), and usefulness to oneself \((F_{1,134} = 3.10, p = .048, \eta^2 = .046)\), but not for usefulness to all Americans \((F_{1,130} = 0.38, p = .682)\).

For their own opinion on gun control, participants (rightly) felt their views were most accurately represented when they received mostly congenial information \((M = 4.60, SD = 1.33)\) compared to mostly uncongenial \((M = 3.04, SD = 1.47; p < .001)\) and balanced \((M = 3.72, SD = 1.22; p = .001)\) information; the uncongenial and balanced conditions differed significantly \((p = .030)\). For the accuracy in representing multiple points of view, participants who received balanced information rated it as being most representative of multiple points of view on gun control \((M = 5.33, SD = 1.60)\) compared to mostly congenial \((M = 4.85, SD = 1.76; p = .177)\) and mostly uncongenial \((M = 4.24, SD = 1.79; p = .007)\) information. The congenial and uncongenial conditions did not differ significantly \((p = .170)\).

For the articles’ usefulness to themselves, participants displayed a pattern similar to that for representing multiple points of view: Balanced information was rated as more useful \((M = 4.35, SD = 1.64)\) than mostly congenial \((M = 3.67, SD = 0.92; p = .020)\) and mostly uncongenial \((M = 3.84, SD = 1.80; p = .096)\) information; congenial and uncongenial conditions did not differ significantly \((p = .455)\).

Participants’ evaluations of their partners also influenced how much they felt articles represented multiple points of view \((F_{1,134} = 5.46, p = .021, \eta^2 = .039)\) and were useful to
themselves \((F_{1,130} = 8.06, p = .005, \eta^2 = .058)\). In each case, participants saw the articles they received, regardless of congeniality, as being more representative and useful as their evaluations of their partners increased. There were no partner evaluation effects for accurately representing one’s point of view \((F_{1,135} = 2.94, p = .089)\) or usefulness to Americans \((F_{1,127} = 0.49, p = .486)\). Lastly, there were no significant interactions of information congeniality and partner evaluations for any of the four measures.

**Box model.** Using the box model, participants assessed what factors they believed influenced their partners’ alleged information selections for them. The two factors oriented around the participant (“your own beliefs and attitudes,” “your personality”; \(r = .31, p = .01\)) were collapsed into a single “self” factor, and the two factors oriented around the partner (“your partner’s beliefs and attitudes,” “your partner’s personality”; \(r = .40, p = .01\)) were collapsed into a single “partner” factor. Participants could indicate that their balance of information was received due to “random chance” and “other,” in which they wrote in a factor of their own; however, because a minority of participants utilized the “other” option and there was a diversity of factors, it is not included in the following analyses.

Repeated measures ANOVA with three dependent measures (self-related factors, partner-related factors, random chance) found a significant effect of factor type \((F_{1,135} = 61.43, p < .001, \eta^2 = .313)\): Participants were more likely to list partner factors \((M = 44.64\%, SD = 23.88)\) over self factors \((M = 32.93\%, SD = 22.73; p = .001)\) or random chance \((M = 11.33\%, SD = 17.04; p < .001)\); self and random factors also differed significantly \((p < .001)\).

There was also a significant effect of partner evaluations \((F_{1,135} = 4.62, p = .033, \eta^2 = .033)\) indicating that estimations about the influences on their information choice depended on partner evaluations. Participants who rated their partners at one standard deviation below the mean
perceived those partners as relying significantly more upon partner-related motives than self-related motives ($M_w = 18.17, SE = 4.60, p < .001$). However, for participants who evaluated their partner at the mean level of likability, the difference in their estimates of how much their partner relied upon partner and self motives decreased ($M_w = 11.22, SE = 3.20, p = .001$), and this difference decreased even more for those who evaluated their partner one standard deviation above the mean in likability ($M_w = 4.07, SE = 4.53, p = .371$). Thus, as participants liked the alleged selector more, they perceived that selector as considering the participant’s attitudes and personality more in their selection decisions.

**Discussion**

Study 4 expanded on how recipients make judgments about information and selectors as a function of likability and information congeniality. Like Study 3, participants in Study 4 saw congenial (vs. balanced or uncongenial) information as being more hedonically enjoyable and useful. Unlike Study 3, participants in Study 4 varied their evaluations of the selector depending on the congeniality of information they received, but this turned out to be attributable to the new unlikable confederate condition; for participants in the organic RCIT condition, information congeniality did not affect evaluations of the selector (like Study 3). Lastly, participants in Study 4 again saw information as being more representative of multiple points of view—regardless of congeniality—when a likable selector chose it.

The box model results also revealed how participants thought their information environments were shaped. Participants generally estimated that selectors chose information based on their own attitudes and personality, and not those of the recipient. This result matches with Study 2, in which selectors relied upon their own attitudes to choose information, and not those of the recipient. But, likability of the selector also mattered in Study 4. Although
assessments of how much selectors relied on “partner” factors or random chance did not differ by likability, participants’ perceptions that their partners utilized “self” factors (i.e., the participant and information recipient) differently depending on likability relates to previous studies in the present research. Although Study 2 participants chose information based on their own gun control attitudes, the likability of the recipient affected the quantity of congenial (or uncongenial) information they chose for the recipient. In Study 4, the box model results indicated that when there is a positive relationship between the selector and recipient, the recipient assumes the selector has specifically thought more about the recipient when making the information choice.

This result also has implications for de facto selective exposure: Participants in Study 4 ignored random chance as a possibility for their receipt of information and instead assumed that they were given information precisely because their attributes were taken into account. Despite reporting that their information environment might be tailored to them in specific ways, participants still judged that information to be relatively unbiased, especially when a likable other had chosen it for them.

**General Discussion**

Across four studies of information selectors and recipients, the present research yielded several conclusions about how people choose information for others, and how recipients evaluate information that was chosen or them. In Studies 1 and 2, participants were chose information for fictitious recipients, and those recipients varied by their likability. In Study 1, participants chose information about the MEQ, a fictitious intelligence test about which they had no attitude, but their alleged partners did. In this context, participants used the likability of the recipient to guide information selection: Likable recipients received information that was mostly congenial to
them, whereas unlikable ones received mostly uncongenial information. Study 2 used gun control—a topic about which participants had an attitude—and showed the limits of likability: Study 2 selectors generally relied upon their own gun control attitudes to choose information for recipients, but curated especially congenial selections for likable, agreeable recipients. Thus, Studies 1 and 2 found that information selections for others can be strongly influenced by likability—especially for novel issues—but that for familiar topics, alignment of selectors’ and recipients’ attitudes was also important.

Studies 3 and 4 examined information recipients and showed the continued influence of likability from their perspective. Both studies focused on gun control (like Study 2) and found that recipients regarded information as more hedonically enjoyable and useful not just when it was congenial (vs. uncongenial), but also when it came from a likable selector. Study 3 found that participants felt especially positively about selectors with whom they had a more intimate exchange of information (via the RCIT) compared to the more limited exchange with fictitious partners. In these instances when participants strongly liked their partners (the alleged selectors), they regarded information positively regardless of its congeniality. Study 4 replicated this effect among likable interaction partners but found that after interacting with a scripted, unlikable RCIT partner, participants’ evaluations of information depended mostly on its congeniality. Thus, Studies 3 and 4 found that although recipients often found congenial information to be more enjoyable and useful than uncongenial information, this congeniality bias could be attenuated when the information was ostensibly chosen by a highly likable selector.

**Asymmetries Between Selectors and Recipients**

Across the four studies, patterns of results between selectors and recipients were aligned and misaligned in interesting ways. In Studies 1 and 2, selectors who considered the hedonic
experience of their alleged partners chose more congenial (vs. uncongenial) information for those partners—especially likable partners—but choosing congenial (vs. uncongenial) information was unrelated to considerations of whether the recipient would find the information useful. In other words, when selectors both liked and agreed with the alleged recipient, selectors chose a batch of information that was highly congenial to that recipient. Moreover, selectors chose information that would provide hedonic validation, but not objectivity, for those likable and agreeable recipients. Although these results were consistent with prior research showing that congenial selective exposure is primarily motivated to provide hedonic validation and not necessarily a sense of objectivity (Hart et al., 2009), selectors in Studies 1-2 were only partially correct in predicting recipients’ experiences. Indeed, Studies 3 and 4 found that recipients who received more congenial (vs. uncongenial) information found it to be both hedonically enjoyable and useful. Thus, although selectors might have recognized that congenially biased information is more likely to make one feel good than provide a sense of objectivity, recipients did not share this recognition. Recipients saw congenial information as not just hedonically enjoyable but also higher in utility, a (mis)perception that selectors did not share.

**Information Environments and de facto Selectivity**

The present research has implications for *de facto* selective exposure, the factors that produce it, and news consumption in modern information environments. First, the current studies illustrate how information exchange in relational dyads could facilitate *de facto* selective exposure, by which people find themselves in congenial information environments that are not the result of their affirmative choices (Freedman & Sears, 1965). Although Studies 1 and 2 found that selectors only curated congenial information environments for likable recipients for novel—but not familiar—issues, Studies 3 and 4 found that information recipients enjoyed and derived
utility from information that came from likable selectors, regardless of congeniality. These four studies indicate that even without evidence of selectors actively curating congenial information for recipients (as in Study 2), recipients perceived their information environments as fulfilling both hedonic and utility needs when they thought that information was curated by highly likable selectors (as in the RCIT participants in Studies 3 and 4). De facto selectivity, therefore, could occur by receiving information from likable others, even when that information is on its face not consistent with one’s attitudes.

The present studies also address questions that have arisen in light of modern technological changes in how people share and consume information. Because online information transmission often relies upon the behavior of people in social networks, these social connections influence how news is consumed. Social media connections can facilitate diverse political discussions and persuasion to alternative viewpoints (Diehl et al., 2016; Heatherly, Lu, & Lee, 2017). Highly active online users can wield a wide influence within their social networks (Weeks, Ardèvol-Abreu, & Gil de Zúñiga, 2017), and news content that was received via a friendly connection is more likely to be further disseminated by the recipient (Weeks & Holbert, 2013). Finally, endorsements by friends on online social media platforms can promote selection of ideologically disagreeable information and reduce partisan selective exposure (Messing & Westwood, 2014), suggesting that interpersonal views of information transmitters (i.e., selectors) can overcome recipients’ biases about the content. Thus, studying the experience of information recipients can shed light on how selector likability and information congeniality affect information reception.

Indeed, Studies 1 and 2 suggest that fears about homogeneous online “echo chambers” may be exaggerated (Sunstein, 2001). Although Study 1 selectors deferred to the recipient’s
likability in their selection decisions, Study 2 showed that for divisive political issues that are more likely to elicit discussion and debate, selectors chose information for others that they personally would find validating and mostly did not take the recipient’s attitudes into account. Indeed, selectors in Study 2 who had likable but disagreeable partners generally disregarded likability and chose information that those alleged recipients would find uncongenial. But, Studies 3 and 4 showed that this reluctance to cater to recipients’ views in Study 2 did not matter when the selector-recipient relationship was positive: When recipients liked the alleged selector, information congeniality no longer mattered.

Thus, to the extent that many online social networks are likely to be based on personal likability—and not necessarily attitudinal similarity—the present studies illustrate that people should not only be exposed to heterogeneous viewpoints, but will evaluate heterogeneous information in an open-minded, perhaps even positive, manner. In this way, the present findings appear consistent with research showing that people engage in considerable cross-ideological online discussions (Barberá, 2015; Barberá et al., 2015; Diehl et al., 2016; Heatherly et al., 2017) and value information that is endorsed by friendly peers in social networks (Messing & Westwood, 2014; Weeks et al., 2017; Weeks & Holbert, 2013). However, the findings that selectors chose congenial information for recipients when considering their hedonic experience—but not utility—could have a dark side amidst modern concerns about the spread of misinformation and fake journalism (Guess, Nyhan, & Reifler, 2018). If selectors only consider what is hedonically validating for the recipient, that could lead selectors to disseminate misinformation that is validating, but objectively wrong; then, recipients who see information from likable selectors as both enjoyable and useful could be amenable to misinformation.

Limitations and Future Directions
One limitation of the present research is the divide in how information selectors and recipients were studied. Studies 1 and 2—of selectors—were conducted with participants from MTurk, whereas Studies 3 and 4—of recipients—were conducted with university undergraduates. There are differences between these populations, notably age (MTurk participants are older) and political ideology (students are more liberal and Democratic-leaning); but, research suggests that MTurk is superior for studies of political attitudes (Clifford, Jewell, & Waggoner, 2015). Therefore, it is possible that results about selectors or recipients might vary across these populations. Future studies can assess whether these populations differ significantly in information selection and reception patterns, and whether they are differentially affected by factors such as likability and information congeniality.

A second limitation and direction for future research concerns how attitude strength factors might affect the present results. Although we did not examine how participants’ selection or reception patterns differed according to how strongly or confidently they felt about the issue at hand (particularly for gun control), research has found that related attitude strength factors could affect these results. For instance, attitude confidence can affect selective exposure (Hart et al., 2009), attitude certainty can change persuasion intentions (Cheatham & Tormala, 2017; Petrocelli, Tormala, & Rucker, 2007), and the moral conviction of one’s attitude can affect willingness to engage with people who disagree on that issue (Skitka, Bauman, & Sargis, 2005; Skitka & Morgan, 2014). Thus, whether these attitude strength constructs affect information selection and reception in relational dyads is deserving of future study.

Finally, how recipients evaluated uncongenial information when it came from a likable selector is noteworthy for theories of attitude change. For instance, Heider’s (1958) balance theory suggests that within a positive selector-recipient relationship, if a selector sends
information to a recipient that the recipient finds uncongenial, then the recipient should feel motivated to resolve the inconsistency; the recipient would do this by changing their attitude about either the selector or the uncongenial information. In Study 3, recipients with likable, fictitious partners did not resolve the inconsistency: They maintained a positive evaluation of the selector, but a negative evaluation of the information. However, the opposite occurred for participants who had likable RCIT partners in Studies 3-4: These recipients evaluated otherwise uncongenial information favorably.

**Conclusion**

Across four studies in which participants were assigned to select information for others or receive information that had been selected for them, the present research demonstrated how people in relational dyads exchange information. For novel issues, selectors were attuned to the likability of information recipients, but selectors were more attentive to information congeniality when the topic was attitudinally relevant. However, recipients regarded information increasingly favorably—in both hedonic experience and utility—as the information selector became more likable, regardless of information congeniality. Thus, the present studies indicate that although information selectors may not actively curate congenial information environments for recipients—particularly when it comes to contentious political issues—recipients are positively oriented toward information coming from likable sources. These findings suggest that *de facto* selectivity may be facilitated by positive relationships, but also that recipients are likely exposed to heterogeneous views as they engage with liked others.
References


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