I. Equalizing effects – see NMS

II. Stratificational effects – see NMS

**‘News Attraction’**

Seeking to reframe the scholarly conversation about incidental news exposure, Thorson (2020) introduced the concept of ‘news attraction’ in order to better characterize the “shift in power toward a broader assemblage of actors” that play a role in the process of exposure to news and political information on social media platforms” (p. xx). Drawing from dictionary definitions of ‘attraction’ that define the term as “a force that attracts two objects” or “an evocation of interest,” she argues concept more accurately reflects the dynamics of news exposure in which platforms and curation algorithms play a critical role in the shaping news exposure through the datafication of user activity. In other words, individual activity creates a ‘force’ or ‘evocation’ that ultimately ‘attracts’ news and political information to the user. Thus, much of what scholars have considered to be incidental exposure—that is, news or political information people stumble upon in the course of using social media for other reasons—is not necessarily encountered accidentally. Rather, these encounters often reflect individual’s previous news-related choices and behaviors, as platforms and news organizations use digital traces of these actions to classify users as interested, and subsequently draw on this classification to select content for them to view (Thorson et al., 2019). Therefore, while news may be encountered “in moments of leisure” (Boczkowski et al., 2018)—that is, in the course of doing something else on a platform—these encounters may not entirely non-elective in that people previously have made choices that lead to these encounters. Thus, on social media platforms, the object of choice, as well as the temporality of choice, is often displaced, and choices themselves may not pertain to specific pieces of news content but rather to ‘types’ or categories of content (Barnidge & Xenos, 2021).

While Thorson (2020) offered ‘news attraction’ as a metaphor, we argue that it may also prove fruitful to develop the idea as an analytic concept. There is a need for such a conceptualization in the literature, because, as we previously discussed, most models testing the equalizing or stratification effects of incidental exposure focus primarily on individual’s self-reported interest in politics or the news as an antecedent factor, and generally consider incidental exposure (or its subsequent outcomes) among individuals with low interest to be evidence of equalizing effects (e.g., Barnidge, 2021; CITE). Yet, in line with the ‘news attraction’ metaphor, we know from prior literature that the factors shaping incidental exposure go beyond personal interests, and include environmental perceptions (Weeks & Lane, 2020), characteristics of ego-centric social networks (Barnidge & Xenos, 2021), and processes of algorithmic classification based on prior user activity such as engaging with news and political information or following news organizations and/or information actors like journalists and politicians (Thorson et al., 2019). Therefore, there is a need to systematically develop a concept that incorporates these various influences on the process of news exposure and also separates those factors from ‘incidentality’ associated with exposure to any given story or piece of content (Michelstein et al., 2020). We believe that doing so will bring clarity to the debate over equalizing versus stratificational and provide leverage over the question of whether incidental exposure closes or widens gaps in exposure to and engagement with news and political information.

The ‘news attraction’ metaphor is quite clear about two factors that shape news exposure: individual preferences and the curation algorithms that social media platforms use to select content for users. Prior research shows the individual interest and other preferences do play large role in shaping the extent to which individuals are incidentally exposed (xxx), helping to create what Kümpel (2020) has called ‘Matthew Effect’ (i.e., a ‘rich-get-richer’ dynamic) of news on social media platforms. And while the capacity of research to directly observe curation algorithms is limited, prior research has provided some indirect evidence that is algorithms play a large role in shaping incidental exposure, specifically by showing how previous engagements with news content predict a future exposure (Barnidge, 2021; xxx). In addition to these two factors, prior research has identified several other influences on the process of news exposure on social media. For example, Weeks and Lane (2020) theorize that ‘environmental perceptions’—that is, individuals’ perceptions of whether social media platforms are suitable venues for obtaining news and political information—play a primal role in processes of exposure by shaping how people approach and use particular platforms. Additionally, recent research shows that characteristics of individuals’ ego-centric networks such as network size and diversity (Barnidge & Xenos, 2020), as well as the extent to which people follow accounts to get news content (Thorson et al., 2019), also affect processes of news exposure, in large part because content is not only selected by news algorithms, it is also curated by social contacts (Thorson & Wells, 2016).

Thus, prior literature has identified at least four dimensions of influence on processes of news exposure that are related to the ‘news attraction’ concept, which is to say they reflect individual’s interest in news and politics, and they contribute to the ‘force’ that draws news content toward them: (1) personal preferences; (2) environmental perceptions; (3) social network characteristics, particularly those that shape flows of information; and (4) the datafication of user behavior by social media platforms and/or news organizations. Therefore, we can conceptually define *news attraction* as follows: the force that results from user interactions with social media platforms, and which affects the likelihood of encountering news or political information on those platforms. Operationally, this definition implies that we need indicators not just of individual preferences such as interest, but also of the other ways in which individuals interact with social media platforms in a way that increases the chances of news exposure.

Theoretically, news attraction should have a reciprocal relationship with both news exposure and news engagement (see Figure 1). That is, news attraction is an important antecedent of exposure as well as key predictor of engagement, while at the same time exposure to and, in particular, engagement with news likely increases news attraction. Thus, these three concepts form a ‘virtuous circle’ (or ‘unvirtuous,’ depending on your perspective), contributing to a ‘rich-get-richer’ dynamic and potentially exacerbating digital inequalities related to news exposure (Barnidge & Xenos, 2021). But critically, this conceptualization of news attraction separates its empirical indicators from the incidentality of exposure to any given piece of news content. Thus, we recognize the possibility that incidental encounters with the news could occur among individuals who are both ‘high’ and ‘low’ in news attraction, and doing so allows us to isolate incidentality and assess the extent to which incidental exposure occurs among each group. The logic of this assessment can be used to derive three predictions about equalizing or stratificational effects. First, and in an effort to provide predictive validity for the news attraction concept, news attraction should be positively correlated with news use *via any medium or platform*, as the preferences, perceptions, connections, and behaviors that makeup news attraction likely reflect a generalized habit of non-news consumption or preference for entertainment content (Prior, 2007). Hence, we propose the following hypothesis:

H1: News attraction will be positively related to non-social media news use.

Second, if incidental exposure on social media platforms truly closes exposure gaps by drawing in potential news audience members who would not otherwise encounter news, we would expect to see (a) higher levels of incidental exposure among people who score low news attraction and (b) roughly equal levels of overall exposure among those who are high and those who are low in news attraction. We expect the opposite pattern if incidental exposure widens the exposure gap. These predictions can be summarized with the following competing hypotheses:

H2a: Incidental news exposure will close exposure gaps between people who are low in news attraction and people who are high and news attraction.

H2b: Incidental news exposure will widen exposure gaps between people who are low in news attraction and people who are high and news attraction.

Similarly, if incidental exposure closes engagement gaps, then we would expect to observe an interaction effect between incidental exposure and news attraction—that is, people who are low in news attraction but high in incidental exposure should have roughly equal levels of engagement to those who are high in news exposure. On the other hand, if incidental exposure widens engagement gaps, we might expect to see the highest levels of engagement among those who are high in news attraction and high in incidental exposure. Thus, we can formulate the following competing hypotheses:

H2a: Incidental news exposure will close engagement gaps between people who are low in news attraction and people who are high and news attraction.

H2b: Incidental news exposure will widen engagement gaps between people who are low in news attraction and people who are high and news attraction.

**Methods**

**Survey Design**

This study relies on a novel design featuring an online rolling cross-sectional survey of adult social media users in the United States. The survey was administered in 17 sampling frames of 3-4 days each (with Saturday/Sunday counted as one day). This approach affords a unique opportunity to link survey responses and social media content, because it is possible to ‘locate’ responses in temporal proximity to actual content known to be circulating on social media. The research team collected external media data from Facebook’s proprietary platform, CrowdTangle. In each sampling frame we embedded a screenshot of (one of) the most popular news articles in the previous three day with source cues photoshopped out of the image. Because most of the stories came from a single news organization (Fox News), we balanced this dynamic by also including the most popular story from any other news organization (e.g., CNN, *New York Times*, *Washington Post*, etc.), and, thus, in each sampling frame respondents were randomly presented with either the most popular Fox News story or the most popular story from some other organization that was circulating immediately prior to the sampling frame. Respondents were told the story had been “recently circulating on Facebook”—a true statement. Based on this method, we developed several cued recall measures, which form key outcome variables.

**Sample and Data**

Data were collected between September 3 and November 1, 2020. Quotas for age, race, gender, and census region were based on the 2018 American Community Survey. The survey has an incidence rate of 100% and a cooperation rate of 70%. It has an overall sample size of *N* = 2,008 with at least *n* = 100 for each sampling frame. The sample reflects the target population on the quota criteria (see Table A1 in the online appendices). The average respondent is between 45 and 54 years old (measured on a 7-point scale where 1 = *18-24* and 7 = 85 or older). Approximately 40% of the sample are persons of color, and 51% are female. Census regions were defined according to the U.S. Census Bureau’s map, and in our sample ~22% of respondents live in the Midwest, ~19% live in the Northeast, ~37% live in the South, and ~23% live in the West. In terms of non-criterion demographics, the average respondent has either some college or a 2-year associate’s degree or trade school diploma (*M* = 4.5 on a 7-point scale where 1 = *Some high school* and 7 = *Post-graduate degree*), and lives in a household that earns between $45,000 and $75,000 per year (*M* = 4.7 on an 8-point scale where 1 = *Less than $15,000* and 8 = *More than $150,000*). The sample underrepresents low-education and low-income individuals, and therefore the data were weighted by education and income (see Table A2 online for the weighting scheme). Missing values were imputed using a chained equations technique (Fully Conditional Specification; see van Buuren & Groothuis-Oudshoorn, 2011).

**Measures**

***Exposure and Engagement***

Prior literature suggests that news exposure has both ‘trait-like’ and ‘state-like’ properties (Weeks & Lane, 2020), and we included both kinds of indicators in our study. On the trait-like side, *total exposure* to political information was measured with six questionnaire items asking respondents how often in the past week they have encountered the following types of information (0 = *Never* and 4 = *Several times a day*): information critical of a candidate they support; information critical of a candidate they oppose; information supportive of a candidate they support; information supportive of a candidate they oppose; information that disagrees with their political views; and information that agrees with their political views (c.f., Weeks et al., 2017). These items were averaged for each respondent, and the resulting scale is reliable (Cronbach’s alpha = .96). The variable has a mean of 1.8 (*SD* = 1.3).

It is important to clarify whether exposure was incidental (Nanz & Matthes, 2020). Therefore, immediately after answering the above battery of questions, respondents were asked a follow-up question: “On social media, some people intentionally search for news or political information, but others come across such information accidentally. What about you?” (0 = *Always intentionally* and 4 = *Always accidentally*). To create a measure of *incidental exposure*, this item was multiplied by the total exposure scale, and then the square root was calculated to maintain the original 5-point metric. The variable has a mean of 1.5 (*SD* = 1.1).

The state-like measures centered on the embedded story stimuli. Once shown the story, respondents were asked whether they had seen it on Facebook. A follow-up question asked whether they had seen it on some other social media platform, and answers to these two items were recoded so that 1 = *Exposed* and 0 = *Not exposed*. Approximately 42% of the sample reported *story exposure*.

Those respondents who reported exposure were asked a series of additional follow-up questions, from which our measures of *incidental exposure* and *engagement* are created. First, this subset of respondents was asked: “When you say the story, were you purposefully seeking information on this topic?” (1 = *Yes* and 0 = *No*; 54% of subset and 23% of full sample said yes). Next, they were asked: “When you saw the story, did you engage in any of the following activities?” (1 = *Yes* and 0 = *No*): click on the story; scan the headline of the story; read the entire story; seek out additional information about the topic; comment on the post; discuss the story; and share the story. Responses were summed for each respondent (Cronbach’s alpha = .79; *Min*. = 0 and *Max*. = 7), and the variable has a mean of 3.5 (*SD* = 2.2). Additionally, a *high-effort engagement* variable was created to isolate those activities that relatively higher amounts of cognitive or behavioral effort, including information seeking, commenting, discussing, and sharing (Cronbach’s alpha = .76; *Min*. = 0, *Max*. = 4, *M* = 1.5, *SD* = 1.5).

***Non-Social Media News Use***

Non-social media news use was measured with four survey items measured on 5-point scales (1 = *Never*, 5 = *Several times a day*) asking respondents how often they got news directly from the following sources in the past week: online websites for mainstream news; online-only news websites; print versions of newspapers; and broadcast or television news. These four items were averaged for each respondent (Cronbach’s alpha = .80, *M* = 2.6, *SD* = 1.1).

***News Attraction***

The study includes four indictors of news attraction. First, the study measures respondents’ perceptions of *social media as news source* (Weeks & Lane, 2020) by asking them which choice best describes their “reason for accessing [their] social media accounts”: to follow news and public affairs information; for some other reason; do not think very much about the reason. This three-level factor was recoded into a binary variable (1 = *News source* and 0 = *Not news source*). A little more than one-third of the sample (35%) views social media as a news source. Second, the study measures *self-reported interest* with a three-item scale. Questions asked respondents how interested they are (1 = *Not at all interested* and 5 = *Very interested*) in news, politics, and local community. These three items were averaged for each respondent (Cronbach’s alpha = .83) and the variable has a mean of 3.5 (*SD* = 1.0). Third, the measures the extent which respondents *follow accounts for news* with a three-item scale. Items ask how often respondents follow accounts on social media because they are interested in what they post about news or current affairs, politics, and community events (1 = *Never* and 5 = *Very Frequently*). These three items were averaged for each respondent (Cronbach’s alpha = .91), and the scale has a mean of 2.7 (*SD* = 1.2). Finally, we measured *algorithmic categorization* using a technique pioneered by Thorson and colleagues (2021). With the aim of obtaining an observable indicator of Facebook’s classification algorithm, we asked respondents at the end of the survey to open a web browser, navigate to the Settings menu of their Facebook accounts, and locate their Ad Interests section. We then asked them whether they saw the following categories included in their interests: (a) politics; (b) news or specific news organizations (e.g., the *New York Times*); or (c) neither. We coded this item into a binary variable (1 = *News or politics* and 0 = *Neither*). A little less than half (41%) of the sample was categorized as interested in news or politics.

***Covariates***

Prior research has shown that social networks structures are predictors of incidental exposure, and they also related to news involvement (Barnidge & Xenos, 2021). Therefore, it is important to include indicators of social network structures as covariates in the analysis, and we included four such variables. First, network size was measured by asking respondents how many people or accounts they are “friends with,” “follow,” or “subscribe to” on six social media platforms (1 = *None* and 7 = *2,001 or more*). Respondents’ answers to these items were averaged to create a scale (Cronbach’s alpha = .91), which was then unobtrusively logged to correct for skew (*Min*. = 0 and *Max*. = 1.9). The final variable has a mean of 0.7 (*SD* = 0.5). Second, a structural measure of *network diversity* was borrowed directly from prior literature (Hampton et al., 2011). The measure uses a standardized list of 22 occupations and asks respondents whether they are connected someone on social media who belongs to each (1 = *Yes* and 0 = *No*). An averaged scale was created from these items (Cronbach’s alpha = .92), which has mean of 0.3 (*SD* = 0.3). Third, *group activity* on social media was measured with an 8-item scale, where questions asked respondents whether they had discussed news or related topics during the past month in various types of groups. These items were summed for each respondent, and the resulting index was then unobtrusively logged to normalize the distribution. The final variable has a mean of 0.5 (*SD* = 0.6). Finally, social news curation is a concept taken from Thorson and Wells’ (2016) influential work on curated flows. The variable relies on 5 items that ask respondents how much (1 = *None at all* and 5 = *Almost all*) of the content their friends post is about the following topics: the 2020 election; politics or current affairs; social or community issues; racial or social justice issues; and COVID-19. The items were averaged for each respondent (Cronbach’s alpha = .92), and the variable has a mean of 2.9 (*SD* = 1.1).

***Controls***

In addition to *age*, *race*, *gender*, *education*, and *income* (see above for descriptive statistics), the analyses control for *political ideology*, *party identity*, and *frequency of social media use*. Political ideology was measures with a single 11-point L-R scale where -5 = *Very liberal* and 5 = *Very conservative* (*M* = 0.2, *SD* = 3.0). Party identity was measured with three questionnaire items borrowed from the American National Elections Survey. The first asked about party identity (*Democrat*/ *Republican*/ *Other*/ *None*). The second, shown only to those who selected *Democrat* or *Republican* asked about the strength of identity (*Strong*/ *Not that strong*). The third, shown only to those who selected *Other* or *None*, asked about party lean (*Closer to Democrat*/ *Closer to Republican*). These items were then coded to create a 7-point scale where -3 = *Strong Democrat* and 3 = *Strong Republican* (*M* = -0.3, *SD* = 2.0). Finally, frequency of social media use was measured with a single item asking respondents how much time per day they spend actively using social media (1 = *Less than 10 minutes* and 6 = *More than three hours*. The variable has a mean of 3.5 (*SD* = 1.6).

**Analysis and Results**

**Latent Class Analysis**

In the first stage of the analysis, the four indicators of involvement were entered into a Latent Class Analysis (LCA). The correlations among the four variables are relatively strong (.34 < *r* < .52, *p* < .001 for all coefficients, see Table B1 online for a full correlation matrix), indicating that they may be empirical manifestations of a common underlying construct—that is, they arise from related dimensions of involvement with the news and political information. To establish the best number of latent classes, we compared the fit statistics for models ranging from 2 to 5 classes, using the BIC as the primary criterion for model selection (lower BIC indicates better model fit). The BIC is generally better than *G*2 or χ2 for establishing model fit, as these statistics almost always decrease when the number of classes increases, regardless of concern for overfitting. Additionally, the BIC typically outperforms the AIC for model selection, as it presents a stronger penalty for adding parameters (i.e., classes). Based on these considerations, we selected the model with the lowest BIC, which has 3 latest classes (see Table B2 online).

The first latent class, which we have labeled the *low-attraction group* is the biggest of the three classes (*n* = 971); it makes up 48% of the sample and has a predicted probability of group membership of ~.48. On average, individuals in this group do not view social media as a news source, the have medium levels of self-reported interest in news and politics, they do not frequently follow accounts for news or political information, and Facebook’s algorithm has not classified them as interested in news or politics (see Figure A1 online for within-group sample distributions on the four manifest variables). The second group, which we have termed the *medium-attraction group* is the next largest (*n* = 786), comprising 37% of the sample with a predicted probability of class membership of .38. This group has roughly equal numbers of individuals who do and do not view social media as a news source, as well as an even split for Facebook’s classification algorithm. The typical group member also has above average self-reported interest in the news and politics, as well as above-average frequency of following accounts for news or political information. The third group, which we call the *high-attraction group* is the smallest (*n* = 251), as it makes up only 14% of sample and has a ~.13% predicted probability of membership. The typical individual in this group views social media as news source, reports high levels of interest in news and politics, frequently follows accounts for news or politics, and has been classified as interested in news or politics by Facebook’s algorithm.

Thus, the three groups are arrayed in roughly linear fashion—from low involvement to high involvement—based on covariation in the four manifest variables. With these results in hand, we extracted the grouping (i.e., class) variable from the LCA model for use in subsequent regression analyses.

**Regression Analyses: Non-Social Media News Use**

Conceptually, news attraction should reflect general tendencies and orientations toward news that shape not only patterns of exposure and engagement on social media platforms, but also elsewhere. Therefore, and by way of establishing the external validity of the news attraction variable, H1 predicts that news attraction will be positively associated with non-social media news use. Results support this prediction, as both the medium-attraction group (β = 0.90, *SE* = 0.04, *p* < .001) and the high-attraction group (β = 1.76, *SE* = 0.07, *p* < .001) report higher levels of news use in non-social media environments than the low-attraction group. This pattern is visualized in Figure 2, and results are reported in Table 1.

**Regression Analyses: Exposure**

If incidental exposure closes gaps in overall news exposure, we should expect to observe (1) higher incidental exposure in the low- and medium-attraction groups than in the high-attraction group *and* (2) roughly equal amounts of overall exposure among the groups. In the next phase of the analysis, we test these criteria using multi-level modeling (MLM). This approach allows us to estimate differences between the attraction groups while controlling for measurement invariance introduced by the data structure—that is, the data were collected in 17 sampling frames, and therefore the means of the outcome variables could vary across frames. The analysis accounts for this structure by including random intercepts for each sampling frame. Weighted linear models are used for the trait-like variables, reflecting their interval-like properties, while quasibinomial (Poisson) models are used for the state-like variables, which are appropriate for weighted binomial outcomes (i.e., when weighted, the binomial outcomes take on a Poisson distribution). Results of these analyses are presented in Table 2.

The first model in the table tests the trait-like incidental exposure outcome variable. Results show that respondents the low- and medium-attraction groups report roughly equal amounts of incidental exposure, and both of these groups report more than high-attraction group. This pattern is visualized in Figure 3, and evidence comes from the regression coefficients related to the contrasts between the groups. The contrast coefficient for the high-attraction group is statistically significant (β = -1.08, *SE* = 0.09, *p* < .001), indicating that the adjusted mean of incidental exposure in this group is significantly lower than in the low-involvement group. Meanwhile, the contrast coefficient for the medium-involvement group is not statistically significant (β = -0.10, *SE* = 0.06, *p* = .08).

The second model in the table tests the state-like indicator of incidental exposure, and results show that the medium-attraction group reports the highest levels of incidental exposure. The low- and high-attraction groups are roughly equal. Once again, this pattern can be observed in Figure 3, and key evidence comes from the contrast effects. The coefficient for the medium-attraction group is statistically significant (β = 0.31, 0.12, *p* < .01), while the coefficient for the high-attraction group is not (β = -0.04, *SE* = 0.20, *p* = .85).

The third model tests the trait-like indicator for overall exposure, and results show that the groups are arrayed in a roughly linear fashion, although the high- and medium-attraction groups are not statistically different from one another. The low-attraction group is less likely to have been exposed than either of the other groups (see Figure 3). For the medium-attraction group, contrast coefficient is β = 0.34 (*SE* = 0.05, *p* < .001), and for the high-attraction group it is β = 0.53 (*SE* = 0.09, *p* < .001).

The last model in the table tests the state-like variable for overall exposure, that is, exposure to the story shown in the stimulus. Results show essentially the same pattern as for the trait-like variable (see Figure 3). The high- and medium-attraction groups are statistically equivalent, while the low-attraction groups was less likely to report exposure than either. The contrast for the medium-attraction group is β = 0.52, *SE* = 0.10, *p* < .001), and for the high-involvement group it is β = 0.56, *SE* = 0.14, *p* < .001).

Putting these results together, we can draw two different conclusions for the low- and medium-attraction groups. For the former, results show some evidence that meets the first criterion (i.e., more incidental exposure), but not the second criterion (i.e., equality or near-equality in total exposure). For the medium-attraction group, results show evidence that meets both criteria. In this group, we see both more incidental exposure than in the high-attraction group and roughly equal amounts of total exposure as that group. Thus, evidence suggests that incidental exposure may close the exposure gap among people with moderate news attraction, but not among people with low news attraction.

**Regression Analyses: Engagement**

If incidental exposure closes gaps in *engagement* with the news, we be able to observe an interaction between incidental exposure and attraction, wherein the effect of incidental exposure is stronger among lower attraction groups and weaker in the high-attraction group. We test that interaction using MLM (weighted linear; random intercepts) to analyze two outcomes: overall engagement and high-effort engagement. Results are reported in Table 3.

For overall engagement, the smallest gap between those reporting incidental versus purposeful exposure are observed in the medium-attraction group, resulting in a statistically significant interaction coefficient for the medium group (β = 0.72, *SE* = 0.34, *p* < .05). The gap in the high- and low-attraction groups are broadly similar and not statistically different from one another (β = 0.40, *SE* = 0.41, *p* =.34). These patterns are visualized in Figure 4. Meanwhile, for high-effort engagement, there are no significant differences in gaps between those reporting incidental versus purposeful exposure (contrast for the medium-attraction group is β = 0.31, *SE* = 0.23, *p* = .17; contrast for the high-attraction group is β = -0.11, *SE* = 0.27, *p* = .69). This pattern is shown in Figure 5.

Taken together, these results provide no evidence that incidental exposure closes engagement gaps, particularly for the low-attraction group. On the other hand, there is some evidence that it may close gaps for the medium-attraction group.

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| --- | --- | --- |
| Table 1  *Differences in Non-Social Media News Exposure among the News Attraction Groups* | | |
|  | Non-Social Media News Use | |
| **Fixed Effects** | β | *SE* |
| Intercept | 1.57\*\*\* | 0.07 |
| News Attraction (Medium:Low) | 0.89\*\*\* | 0.04 |
| News Attraction (High:Low) | 1.72\*\*\* | 0.06 |
| Age | -0.02 | 0.01 |
| Gender (1 = Female) | -0.19\*\*\* | 0.04 |
| Race (1 = Person of Color) | 0.03 | 0.04 |
| Education | 0.07\*\*\* | 0.01 |
| Income | 0.06\*\*\* | 0.01 |
| Ideology (+ Conservative) | 0.00 | 0.01 |
| Party Identity (+ Republican) | -0.01 | 0.01 |
| **Random Effects** | *Var.* | *SD* |
| InterceptFrame | 0.01 | 0.11 |
| Residual | 0.61 | 0.78 |
| **Fit Statistics** |  |  |
| ICC | .02 | |
| LL | -2,622.25 | |
| Pseudo-*R*2 | .47 | |
| *Note*: Cell entries are parameter estimates from linear multilevel model with random intercepts. Data are weighted by education and income. *N* = 2,008. Groups = 17. | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2  *Differences in Incidental Exposure and Total/Story Exposure among the News Attraction* *Groups* | | | | | | | | | | | | |
|  | Incidental Exposure | | | | | | Total Exposure | | | Story Exposure | | |
|  | Trait-Like Variable | | | State-Like Variable | | | Trait-Like Variable | | | State-Like Variable | | |
| **Fixed Effects** | β | | *SE* | β | | *SE* | β | | *SE* | β | | *SE* |
| Intercept | -0.19 | | 0.11 | -2.48\*\*\* | | 0.26 | -0.53\*\* | | 0.11 | -2.14\*\*\* | | 0.21 |
| News Attraction (Medium:Low) | -0.10 | | 0.06 | 0.31\*\* | | 0.12 | 0.34\*\*\* | | 0.05 | 0.52\*\*\* | | 0.10 |
| News Attraction (High:Low) | -1.08\*\*\* | | 0.09 | -0.04 | | 0.20 | 0.53\*\*\* | | 0.09 | 0.56\*\*\* | | 0.14 |
| Age | 0.08\*\*\* | | 0.02 | 0.12\*\*\* | | 0.04 | 0.07\*\*\* | | 0.02 | 0.02 | | 0.03 |
| Gender (1 = Female) | 0.03 | | 0.05 | -0.15 | | 0.10 | -0.09 | | 0.04 | -0.23\*\* | | 0.08 |
| Race (1 = Person of Color) | -0.13\*\* | | 0.05 | -0.12 | | 0.10 | -0.20\*\*\* | | 0.04 | -0.01 | | 0.08 |
| Education | 0.05\*\* | | 0.02 | 0.01 | | 0.03 | 0.05\*\* | | 0.01 | 0.02 | | 0.02 |
| Income | 0.00 | | 0.01 | -0.04 | | 0.03 | 0.00 | | 0.01 | -0.03 | | 0.02 |
| Ideology (+ Conservative) | -0.03\*\*\* | | 0.01 | -0.03 | | 0.02 | -0.02\*\* | | 0.01 | 0.01 | | 0.01 |
| Party Identity (+ Republican) | 0.06\*\*\* | | 0.01 | 0.03 | | 0.03 | 0.04\*\*\* | | 0.01 | 0.00 | | 0.02 |
| Frequency of Social Media Use | 0.06\*\*\* | | 0.01 | 0.08\* | | 0.03 | 0.04\*\* | | 0.01 | 0.00 | | 0.02 |
| Network Size | -0.16\* | | 0.07 | -0.17 | | 0.15 | 0.25\*\*\* | | 0.07 | 0.19 | | 0.10 |
| Network Diversity | 0.18 | | 0.10 | -0.01 | | 0.22 | 0.22\* | | 0.10 | 0.34\* | | 0.15 |
| Group Activity | 0.22\*\*\* | | 0.05 | 0.13 | | 0.10 | 0.24\*\*\* | | 0.04 | 0.10 | | 0.07 |
| Social News Curation | 0.41\*\*\* | | 0.03 | 0.17\*\* | | 0.06 | 0.49\*\*\* | | 0.03 | 0.22\*\*\* | | 0.05 |
| **Random Effects** | *Var.* | | *SD* | *Var.* | | *SD* | *Var.* | | *SD* | *Var.* | | *SD* |
| InterceptFrame | 0.01 | | 0.08 | 0.05 | | 0.21 | 0.01 | | 0.10 | 0.04 | | 0.19 |
| Residual | 0.95 | | 0.97 | 1.62 | | 1.27 | 0.87 | | 0.93 | 1.29 | | 1.14 |
| **Fit Statistics** |  |  | |  |  | |  |  | |  |  | |
| ICC | .01 | | | .03 | | | .01 | | | .03 | | |
| LL | -3,072.13 | | | -1,057.31 | | | -2,981.82 | | | -1,340.08 | | |
| Pseudo-*R*2 | .22 | | | .10 | | | .50 | | | .10 | | |
| *Note*: Cell entries are parameter estimates from multilevel models with random intercepts. Linear models are used for trait-like variables, and quasi-binomial models are used for state-like variables. Data are weighted by education and income. *N* = 2,008. Groups = 17. | | | | | | | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table 3  *Conditional Effects of Incidental Exposure on Story Engagement* | | | |  |  | |
|  | Engagement | | High-Effort Engagement | | | | |
| **Fixed Effects** | β | *SE* | β | | | *SE* | |
| Intercept | 2.58\*\*\* | 0.42 | 1.16\*\*\* | | | 0.28 | |
| Incidental Exposure (Trait-Like) | -0.14\*\*\* | 0.06 | -0.10\*\* | | | 0.04 | |
| Incidental Exposure (State-Like) | -2.07\*\*\* | 0.31 | -1.18\*\*\* | | | 0.20 | |
| News Attraction (Medium:Low) | -0.12 | 0.31 | -0.11 | | | 0.20 | |
| News Attraction (High:Low) | 0.48 | 0.35 | 0.30 | | | 0.23 | |
| Age | 0.03 | 0.05 | -0.02 | | | 0.03 | |
| Gender (1 = Female) | -0.28\* | 0.12 | -0.20\* | | | 0.08 | |
| Race (1 = Person of Color) | 0.26 | 0.13 | 0.07 | | | 0.08 | |
| Education | -0.03 | 0.04 | -0.03 | | | 0.03 | |
| Income | 0.02 | 0.03 | 0.01 | | | 0.02 | |
| Ideology (+ Conservative) | 0.03 | 0.02 | 0.03\* | | | 0.01 | |
| Party Identity (+ Republican) | -0.06 | 0.03 | -0.04\* | | | 0.02 | |
| Frequency of Social Media Use | 0.00 | 0.04 | 0.01 | | | 0.03 | |
| Network Size | 0.22 | 0.17 | 0.30\*\* | | | 0.11 | |
| Network Diversity | 0.69\*\* | 0.24 | 0.38\* | | | 0.16 | |
| Group Activity | 0.24\* | 0.10 | 0.20\*\* | | | 0.07 | |
| Social News Curation | 0.36\*\*\* | 0.08 | 0.19\*\*\* | | | 0.06 | |
| **Interactions** |  |  |  | | |  | |
| Incidental Exposure (State-Like) x News Attraction (Medium:Low) | 0.72\* | 0.34 | 0.31 | | | 0.23 | |
| Incidental Exposure (State-Like) x News Attraction (High:Low) | 0.40 | 0.41 | -0.11 | | | 0.27 | |
| **Random Effects** | *Var*. | *SD* | *Var*. | | | *SD* | |
| InterceptFrame | 0.02 | 0.15 | 0.02 | | | 0.13 | |
| Residual | 2.67 | 1.63 | 1.15 | | | 1.07 | |
| **Fit Statistics** |  |  |  | | |  | |
| ICC | .01 | | .02 | | | | |
| LL | -1,631.33 | | -1,285.80 | | | | |
| Pseudo-*R*2 | .46 | | 0.47 | | | | |
| *Note*: Cell entries are parameter estimates from a multilevel model with random intercepts. Data are weighted by education and income. Analysis uses subset of respondents who report exposure to story. *N* = 842. Groups = 17. | | | | | | |

Figure 1

*Theoretical Relationships Among News Attraction, News Exposure, and News Engagement*



Figure 2

*Differences Among News Attraction Groups in Non-Social Media News Use*

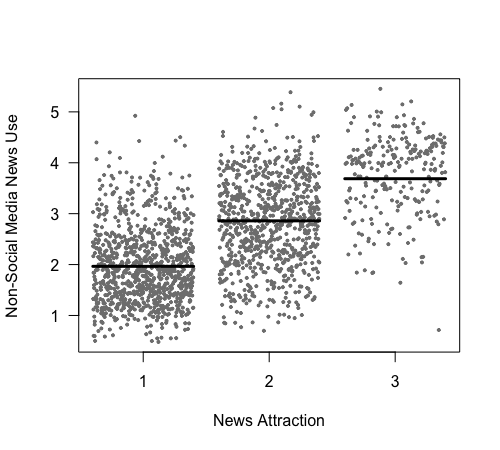


Figure 3

*Differences Among Attraction Groups in News Exposure*

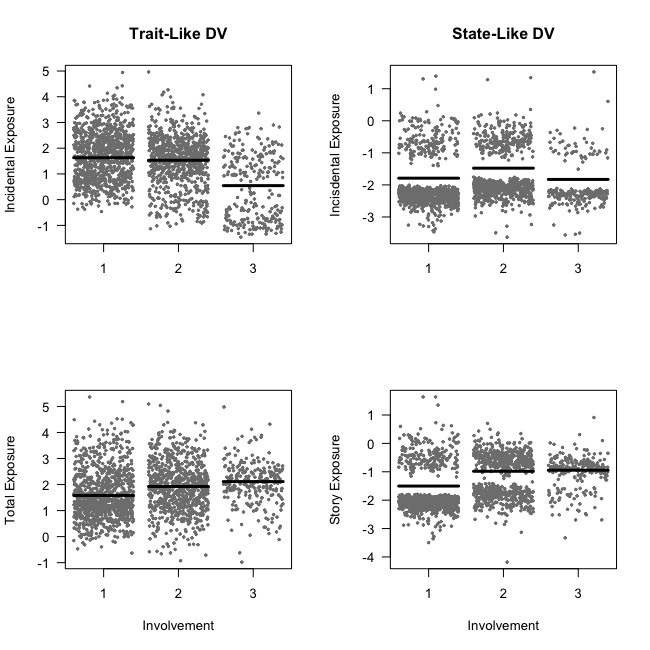
**

Figure 4

*Differences Between Incidentally and Purposefully Exposed in News Engagement by Level of Attraction*

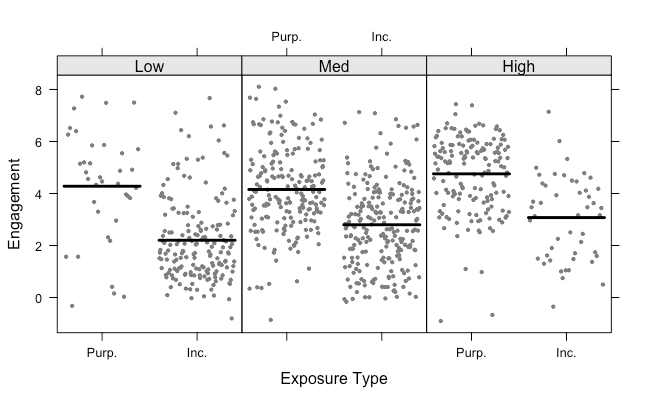
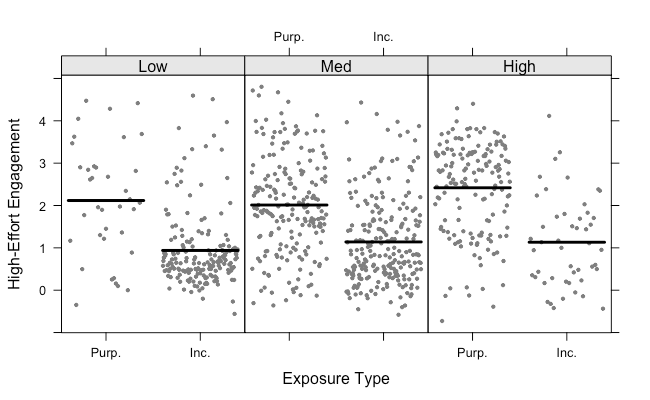


Figure 5

*Differences Between Incidentally and Purposefully Exposed in High-Effort News Engagement by Level of Attraction*



**Appendix A:**

**Sample Demographics and Weighting Scheme**

|  |  |  |
| --- | --- | --- |
| Table A1  *Demographic Profile of Survey Sample and Target Population* | | |
|  | Current Survey | U.S. Census Bureau:  2016 American Community Survey | |
|  | (%) | (%) | |
| Gender |  |  | |
| Male | 49.0 | 49.2 | |
| Female | 51.0 | 50.8 | |
| Age (median) | 35-44 | 37.7 | |
| Ethnicity/race |  |  | |
| White | 59.6 | 62.0 | |
| Black or African American Native | 15.9 | 12.3 | |
| American Indian and Alaska Native | 1.5 | 0.7 | |
| Asian | 12.9 | 5.2 | |
| Native Hawaiian and other Pacific Islander | 0.2 | 0.2 | |
| Hispanic | 7.6 | 17.3 | |
| Household income (median) | US $60,000–75,000 | US $57,617 | |
| Education |  |  | |
| Less than high school graduate | 2.1 | 13.0 | |
| High school diploma or equivalent | 15.7 | 27.5 | |
| Some college or associate degree | 26.2 | 29.2 | |
| Bachelor’s degree or higher | 56.1 | 30.3 | |
| *Note*: The US Census Bureau 2016 American Community Survey is available online at http://factfinder.census.gov/ | | |

|  |  |
| --- | --- |
| Table A2  *Survey Weights* | |
| Income | |
| Category | Weight |
| Less than $15k | 1.02 |
| $15k to 30k | 1.00 |
| $30k to $45k | 1.00 |
| $45k to 60k | 1.00 |
| $60k to $75k | 1.00 |
| $75k to $100k | 0.86 |
| $100k to $150k | 0.95 |
| More than $150k | 0.95 |
| Education | |
| Category | Weight |
| None, or grades 1-8 | 5.75 |
| High school incomplete (grades 9-11) | 1.77 |
| High school graduate (grade 12 or GED certificate) | 1.33 |
| Some college, no 4-year degree (includes Associate’s Degree) | 0.89 |
| Technical, trade, or vocational school after high school | 0.65 |
| College graduate (Bachelor’s Degree) | 0.42 |
| Post-graduate training/professional school after college | 0.42 |
| *Note*. Income measured as annual household income. Education measured in terms of highest level completed. Final survey weights created by multiplying weights for income and education. | |

**Appendix B:**

**Full Results from Latent Class Analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table B1  *Correlations Among Variables Used in Latent Class Analysis* | | | | |
| Variable | 1. | 2. | 3. | 4. |
| 1. Social Media as News Source (1 = Yes) | 1.00 |  |  |  |
| 2. Self-Reported Interest | .34 | 1.00 |  |  |
| 3. Follow Accounts for News | .52 | .50 | 1.00 |  |
| 4. Algorithmic Categorization (1 = Interested) | .35 | .34 | .46 | 1.00 |
| *Note*: Cell entries are Pearson’s correlation coefficients (*r*). *N* = 2,008 | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table B2  *Model Fit Statistics for Models with Varying Number of Latent Classes* | | | | |
| Model | AIC | BIC | *G*2 | χ2 |
| 2 Classes | 16,041.86 | 16,159.56 | 395.93 | 403.59 |
| **3 Classes** | **15,815.45** | **15,994.81** | **147.52** | **146.62** |
| 4 Classes | 15,764.07 | 16,005.08 | 74.14 | 79.18 |
| 5 Classes | 15,760.49 | 16,063.15 | 48.56 | 45.78 |
| *Note*: BIC was the primary criterion for model selection. *N* = 2,008. | | | | |

|  |  |  |
| --- | --- | --- |
| Table B3  *Predicted and Observed Latent Class Membership* | | |
| Latent Class | Predicted | Observed | |
| 1: Low Attraction (*n* = 971) | .48 | .48 | |
| 2: Medium Attraction (*n* = 786) | .39 | .37 | |
| 3: High Attraction (*n* = 251) | .13 | .14 | |
| *Note*: Cell entries are predicted probabilities and observed proportions obtained from a latent class analysis (LCA) model. Column totals may not equal 1 due to rounding. *N* = 2,008. | | |

Figure A1

*Group Distributions on Manifest Variables from Latent Class Analysis*

