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Ben Wasike

University of Texas Rio Grande Valley, ben.wasike@utrgv.edu

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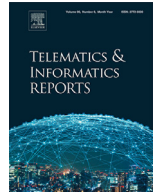
Wasike, Ben. "The influencer sent me! Examining how social media influencers affect social media engagement, social self-efficacy, knowledge acquisition, and social interaction." *Telematics and Informatics Reports* 10 (2023): 100056. <https://doi.org/10.1016/j.teler.2023.100056>

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Contents lists available at ScienceDirect

Telematics and Informatics Reports

journal homepage: www.elsevier.com/locate/teler

The influencer sent me! Examining how social media influencers affect social media engagement, social self-efficacy, knowledge acquisition, and social interaction[☆]

Ben Wasike^{*}

Department of Communication, University of Texas Rio Grande Valley, One West University Boulevard, Brownsville, TX 78520, USA

ARTICLE INFO

Keywords:

Social media influencers
 Social media engagement
 Self-efficacy
 Social self-efficacy
 Knowledge acquisition
 Structural equation modeling
 Social interaction

ABSTRACT

This study examined how exposure to social media influencer (SMI) content affects social media engagement (SME), knowledge acquisition, social self-efficacy (SSE), and social interaction. Structural equation analysis indicated that exposure to SMI content improves SME, perceptions of knowledge acquisition, and SSE. In turn, perceptions of knowledge acquisition improved SSE and improved both online and offline social interaction. Perceptions of knowledge acquisition positively mediated between exposure to SMI content and online social interaction, between SME and online social interaction, and between SME and SSE. The study concludes that following an SMI empowers users regarding perceptions of knowledge and SSE, and that these two then improve social interaction with others. These effects are important in the context of social media misinformation and the fact that SMI content is widely consumed and yet remains largely unvetted for accuracy and authenticity.

We encounter new developments in new media every so often, and the rise of social media influencers (SMIs) is one such. An SMI is exactly that; a person who influences others on social media. Generally, an influencer is a person who produces online content and shares it with followers for compensation [1,2]. By intensively using social media tools and deploying creative self-branding, influencers achieve opinion leadership status and recognition from a dedicated group of followers [3]. Even though many influencers become famous, they differ from traditional celebrities because they are self-made through personal branding and content creation, and they are not dependent on institutional media for recognition [4–6]. Also, unlike traditional celebrities, SMIs build intimate and trusting relationships with their followers by projecting authentic personas by sharing emotions as well as disclosing intimate details about their lives by “being real” [7,8]. This intimacy also allows them to build high credibility and trustworthiness perceptions among their followers [9,10].

Influencers come in many varieties depending on content, number of followers, or even the platform they primarily use (Ruiz-Gómez). For instance, Marques Brownlee (@mkbhd), a leading tech influencer with over 16 million followers, may be considered a mega YouTube influencer given the followership, content, and platform [11]. Regarding followership, micro influencers have less than 100,000 followers and macro influencers have 100,000–500,000 followers (Ruiz-Gómez). Content wise, political SMIs such as TikToker Imani Barbarin

(@Crutches&Spice) are those who create and share politically oriented content and social commentary, and they also act as digital opinion leaders to their followers [12–14]. Another popular content category includes fitness influencers. Examples include Anllela Sagra (@anllela_sagra) on Instagram with 16 million followers or micro influencer Latoya Shauntay Snell (@iamshauntay), also on Instagram, with 79,000 followers [15].

Regardless of the demarcations of content, size of followership, and platform, common to all influencers is that they combine personal branding, skilled narration, and business acumen to build and maintain a cadre of followers over whom they wield considerable influence [16]. Their influence goes further than their interactivity with followers such that brands now use them as third-party endorsers for products and services as part of influencer marketing campaigns [1,17]. Some SMIs even impact national dialog on politics and public health [18,19]. As I discuss later, SMIs affect knowledge acquisition given that they are content creators. This makes them important stakeholders in contemporary communication because they now become information gatekeepers, a status once exclusive to the media elite and certain public figures [20]. This is important because social media platforms do not practice the type of fact-checking that institutional media agencies do, and this leaves room for the dissemination of misinformation. It is the uniqueness of their influence and their role in information-sharing that is the focus of this study. Using a mediated effects approach, this study examines

[☆] Ph.D. granting institution: Louisiana State University (2005).

^{*} Corresponding author.

E-mail address: ben.wasike@utrgv.edu

<https://doi.org/10.1016/j.teler.2023.100056>

Received 13 December 2022; Received in revised form 10 March 2023; Accepted 20 March 2023

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whether following an SMI and engaging with their content affects the followers' knowledge and their social self-efficacy (SSE), and whether this ultimately affects how the followers socially interact with others online and offline.

Rationale

This study is meritorious in the following ways. First, as mentioned, SMIs are influential in contemporary communication. The emotional attachment they build with their followers is unique such that it may influence a follower's identification process as some followers strive to emulate the SMIs they follow [21,22]. Second, even though each influencer builds their own following, the collective effect of SMIs on social media users is large and growing. As of July 2021, UAE had the highest percentage of internet users in any country who follow SMIs (75%). Globally, nearly 43% of internet users follow an SMI [23]. Because SMIs are known for content creation, these numbers suggest that they are a rich repository of information and the effect on knowledge acquisition among their followers is an issue worth examining. Given that social media communication is interactive, it is also worth examining how this knowledge transfers from followers to others via social media engagement (SME), which refers to the user-content interactivity via sharing, commenting, retweeting, and reacting to content by liking, upvoting, and tagging, etc. [24–26].

Worth examining also is whether knowledge acquisition and SME via exposure to SMI content affects SSE and social interaction with others both online and offline. Social interaction is how people reciprocally influence each other during focused social encounters either face-to-face or virtually via mediated communication such as texting, messaging, or via social media use [27–29]. Self-efficacy generally, and SSE particularly, have been shown to affect a person's social interaction with others [30–32]. At the same time, research shows that social media and online knowledge acquisition affect a variety of behaviors both online and offline [33–35]. The confluence of the exposure to SMI content, the empowering effect of knowledge acquisition and the collective effect on SSE and social interaction is worthy of scholarly inquiry.

Lastly, this study uniquely adds to knowledge in the following manner. First, few scholars have examined how influencers affect SSE. Therefore, this study fills a gap in a largely unexplored area of SSE scholarship and specifically adds to scholarship that has examined SSE and social media. Second, given the newness of SMIs, the study adds to burgeoning research examining how influencers affect knowledge acquisition. Third, even though this study did not directly examine misinformation, it may inform future research on how SMIs affect the dissemination of and engagement with social media misinformation. This is important because possessing accurate knowledge reduces a person's susceptibility to misinformation and conspiracies [36,37]. This angle is even more important given that information-vetting and fact-checking are new developments on social media, and therefore, any examination of information dissemination on social media is advantageous. The study also adds to gatekeeping research. As mentioned, SMIs now compete with traditional media elites regarding information dissemination. It is worthwhile to examine how influencer communication is disrupting traditional gatekeeping processes.

Social media influencers and social media engagement

Like SMIs, SME is a relatively new phenomenon that arose with the advent of online media interactivity. The interactive aspect of online media allowed users to use content in ways they couldn't do with legacy media. Users could now create and co-create content, share it, react to it, and modify it [24]. Social media amplifies this interactivity via SME. In addition to the above-mentioned, social media users can comment, like, upvote, downvote, pin, recommend, use hashtags, edit content, and reuse other people's content and share it for further interactivity [25,26,38]. Users may also just choose to be part of someone's social

media milieu by following that person's account. This followership is the bottom-line for SMIs, and their clout is primarily based on such metrics [39].

Research shows that SME impacts political, civic, and health behavior. For instance, SME improves political engagement among young people [40,41], a demographic otherwise known to be politically apathetic [42]. SME also affects adults. Second screen use during political debates increases political engagement [43,44] as does sharing news articles with others online [45]. Merely engaging with politically minded users or engaging with others on activist social media sites improves one's political engagement and knowledge about related issues [46,47]. Regarding health behavior, SME is positively linked to smoking cessation [48], safe sex [49], stress management [50], and patient literacy [51]. On the contrary, SME is also linked to negative outcomes such as victimization [52], peer pressure [53], and tobacco and e-cigarette use among adolescents [54].

SMIs may also impact followers via SME. As mentioned, SMIs enjoy unique intimacy with their followers [4,5]. They achieve some of this intimacy via self-disclosure by "inviting" their followers into their private lives and sharing behind-the-scenes content, disclosing their real names, sharing emotions, and giving opinions on issues [4,55]. Followers also react favorably to SMIs who disclose product endorsements [10]. This interactivity builds high intimacy with the followers as well as improving perceptions of the SMI's credibility, which then boosts an SMI's persuasiveness [9,56–58]. This persuasiveness manifests myriad ways. Some followers may even emulate an SMI's behavior and habits via wishful identification [22]. Also, SMIs have been used for national smoking cessation campaigns as they positively impact public health messaging [59,60], they are highly trusted by tourists [61], and they drive nonpartisan political discourse [62].

On the contrary, SME via SMIs may influence followers negatively. With such persuasiveness, it comes as no surprise that only twelve SMIs drove most the disinformation about COVID-19 vaccines on social media. Dubbed the "Disinformation Dozen," this handful of influencers had a collective followership of over 59 million people among various platforms, and they shared over 500,000 Facebook posts and over 20,000 tweets in a two-month period [18]. Likewise, the pseudo-documentary "Plandemic" only went viral after SMIs linked to the QAnon conspiracy movement endorsed and promoted it [63]. "Film your Hospital," another COVID-19 disinformation campaign, also went viral similarly [64]. These campaigns and the resultant engagement among online users contributed to vaccine hesitancy, resistance to public health protocols, and undermined expert science ([65], para. 14; [66], para. 1, para. 5; [67]). Given that the research discussed above indicates a relationship between exposure to SMI content and SME, hypothesis one predicts the same.

H1: There is a positive association between exposure to SMI content and SME.

Social media and knowledge acquisition

Research indicates that social media use improves knowledge, even though this effect is not uniform across all types of information. For instance, social media use little improves political knowledge and may even reduce it some [68–70]. However, other studies show that social media has potential to improve political knowledge among users. SME via sharing, commenting on, and liking news articles increases cognitive elaboration about the content, even though this does not impact one's knowledge about current events [71]. Also, exposure to news via social media helps people recall the details of political stories more than details of nonpolitical stories, and political interest may moderate this process [72]. The caveat among these studies is that they focused mostly on two SNSs, Facebook and Twitter, and they did not account for the effect of SME on knowledge acquisition based on exposure to content produced by SMIs.

Regardless, other research shows that social media impacts the acquisition of other types of information. Simply interacting with others offline or online increases knowledge by virtue of social interaction influences. One way this occurs is via informational social influence, which is “an influence to accept information obtained from another as evidence about reality” ([73], p. 629). This refers to the likelihood of a person to believe that information from those they interact with is true and they may even comply to the dictates of that information. This dynamic has long been shown to happen both offline and online [74,75]; Zhang & Gong, 2019). Other research shows that specifically, SME triggers information social influences [76,77].

Interacting with SMIs also impacts knowledge acquisition. Followers who deem an SMI’s content to be of high value to them may spread this information to others via electronic word of mouth [21,78]. If they are involved early in the process, SMIs also help early adopters to learn new technologies [79]. Likewise, the popular unboxing videos by various SMIs have a social learning effect via the matching of product characteristics to a follower’s purchase intent and also via meaning transfer between an SMI’s review and a follower’s attitude [80]. Research also shows that generally, political SMIs create awareness and improve knowledge about civic and political issues among followers [81,82], and such awareness leads to opinion change and action among some [83,84]. Likewise, some health-focused SMIs have raised awareness and increased knowledge on issues like cancer [85,86], compliance with COVID-19 hygiene protocols [87], and the flu vaccine [88]. Given that the literature discussed above indicates that SME and SMIs impact knowledge, I posit that following an SMI increases perceptions of knowledge acquisition about the content on the SMI’s social media page(s) and that SME on that SMI’s account also increases perceptions of knowledge acquisition.

H2: Exposure to SMI content increases the perception of knowledge acquisition.

H3: SME on an SMI’s social media site increases the perception of knowledge acquisition.

Social self-efficacy and social media engagement

Psychologist Albert Bandura [89] proposed self-efficacy as a broad theoretical framework to explain how cognitive processes lead to behavioral changes. Self-efficacy refers to “beliefs in one’s capabilities to organize and execute the courses of action required to produce given attainments” ([90], p. 3). This refers to someone’s belief that they can use available information and experiences to attain a desired outcome if they behaved in one way or another. Social self-efficacy (SSE) refers to a narrower aspect of Bandura’s self-efficacy framework and it focuses on social interaction [91]. SSE and its measurement scales have been modified since Sherer and Maddux separated them from Bandura’s larger framework [92,93]. In their conceptualization of this phenomenon, Smith and Betz [94] defined SSE as “an individual’s confidence in her/his ability to engage in the social interactional tasks necessary to initiate and maintain social relationships” (p. 29). As I discuss below, SSE applies not only to social media communication in general, but to SME and social interaction both online and offline.

Within offline social interaction, research shows that SSE is inversely related to aggressiveness towards others as well as to the likelihood of being bullied [32]. This suggests that those with low SSE are more likely to be aggressive during social interaction than those with high SSE, and this might be a result of negative past interaction such as bullying. Aggressiveness and bullying are also markers of toxic experiences during SME [95]. Indeed, data shows that social media users with low SSE are more likely to be bullied and victimized both offline and online [96]. SSE also moderates the relationship between agreeableness and a person’s choice of conflict resolution strategies offline. Here, SSE is shown to inversely correlate with attacking during conflict situations, and to positively correlate with compromise during such situations [97]. This

suggests that those with high SSE are more likely to choose de-escalation tactics when in conflict.

In online conflict situations, SSE has been shown to improve the likelihood of social media users to step in and resolve cyberbullying and other aggressive behavior [30]. As discussed earlier, self-disclosure plays an important role in an SMI’s relationship with followers [4,55]. Research shows that in both offline and online social interaction, self-disclosure and its antithesis, self-concealment, are moderated by SSE. Offline, the likelihood to self-conceal inversely correlates with a person’s SSE [98]. Research on online interaction shows the same, with SSE affecting the association between personality traits (such as extroversion, openness, and openness) and online prosocial behaviors such as sharing, mentoring, encouraging others [99].

In online social interaction, SSE is related to social capital, shyness, ostracism, and communication in general. All these issues affect social interaction. For instance, SME has a bigger effect on social bonding among those with low rather than those with high SSE [31]. Also, the need to communicate with others online positively impacts one’s feelings of well-being when SSE is a mediator, just as SSE mediates a person’s shyness about communicating with others online as well as their feelings of well-being [100]. This may explain why SSE accounts for more of a person’s SME-based interaction than it accounts for their offline interaction, as some people socialize online more to compensate for their inadequacies during offline interaction [101]. Likewise, SSE mediates the relationship between ostracism and the addictive use of smart phones [102]. This is important to the current study because ostracism is an obstacle to social interaction, especially among those with low SSE [103].

Given the discussion above and in the previous section, I posit the following hypotheses, also illustrated in Fig. 1. First, the perception of knowledge acquisition due to exposure to SMI content is positively associated with SSE (H4). Second, SME with SMI content is positively associated with SSE (H5). Third, SSE positively impacts both online (H6a) and offline (H6b) social interaction. Likewise, the perception of knowledge positively impacts both online (H7a) and offline (H7b) social interaction. I also predict that online and offline interaction are positively associated (H8).

Regarding the mediation effects I predict that SSE mediates the relationship between SME and online and offline social interaction respectively (H9a and H9b) such that SSE will improve these interactions. I also predict that the perception of knowledge acquisition mediates the relationship between exposure to SMI content and online and offline social interaction respectively (H10a and H10b), and that this effect improves when knowledge acquisition perceptions are high rather than when they are low. The perception of knowledge acquisition also mediates the relationship between SME and online and offline social interaction respectively (H11a and H11b), and that this effect improves when knowledge is high rather than when it is low.

H4: The perception of knowledge acquisition is positively associated with SSE.

H5: SME is positively associated with SSE.

H6a: SSE positively impacts online social interaction.

H6b: SSE positively impacts offline social interaction.

H7a: The perception of knowledge acquisition positively impacts online social interaction.

H7b: The perception of knowledge acquisition positively impacts offline social interaction.

H8: Offline and online social interactions are positively related.

H9: The perception of knowledge acquisition positively mediates the relationship between SME and SSE.

H10a: SSE mediates the relationship between SME and online social interaction such that SSE will improve this interaction.

H10b: SSE mediates the relationship between SME and offline social interaction such that SSE will improve this interaction.

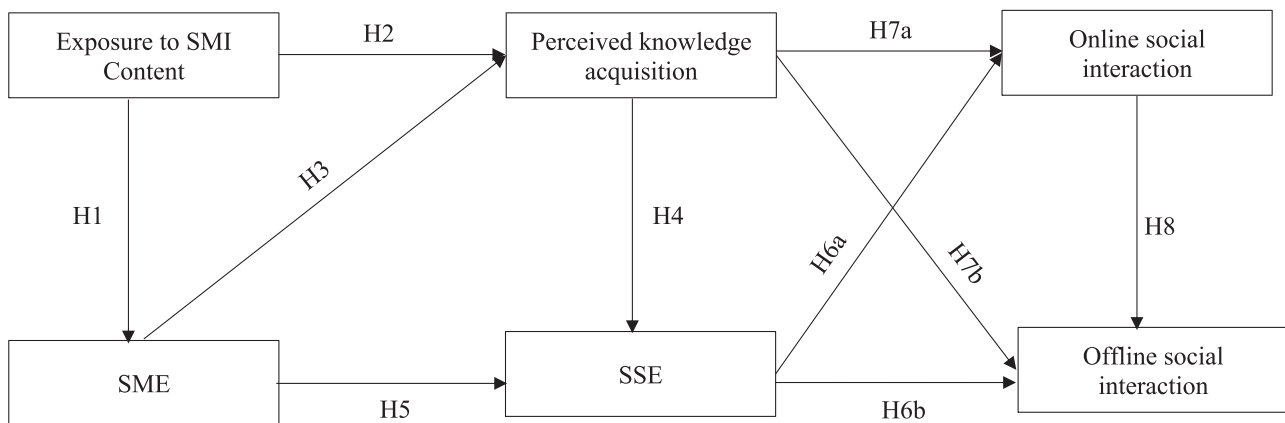


Fig. 1. Predicted model for SMI Content, SME, SSE, perception of knowledge, and social interaction.

- H11a:** The perception of knowledge acquisition mediates the relationship between exposure to SMI content and online social interaction such that this effect improves when the perception knowledge acquisition is high rather than when it is low.
- H11b:** The perception of knowledge acquisition mediates the relationship between exposure to SMI content and offline social interaction such that this effect improves when the perception knowledge acquisition is high rather than when it is low.
- H12a:** The perception of knowledge acquisition mediates the relationship between SME and online social interaction and this effect increases when the perception of knowledge acquisition is high rather than when it is low.
- H12b:** The perception of knowledge acquisition mediates the relationship between SME and offline social interaction and this effect increases when the perception of knowledge acquisition is high rather than when it is low.

Method

A Qualtrics survey was used to collect data from a random sample of U.S. social media users ($n = 834$). The sample was drawn from a Qualtrics panel, and it reflected U.S. Census demographics such as age, gender, race, ethnicity, and geographical region. Studies indicate that Qualtrics panels and similar approaches are suitable sampling methods [104–106]. The study was approved by the author's Institutional Review Board before data collection. Data were collected between August 19–August 25, 2022.

Measurement

Exposure to smi content

In order to determine social media users who also followed SMIs, subjects answered two screening questions. The first question asked subjects how often they used social media, and the choices were multiple times a day, once a day, often but not daily, or rarely or never. Those who used social media rarely or never were dropped from the study. The remaining subjects then answered a second dichotomous (yes/no) screening question on whether they followed influencers. First, they read a brief description of an SMI as shown below.

“The question below asks about your relationship with social media influencers. These are people on social media who have a reputation for their knowledge and expertise about certain topics. They regularly create and post content about those topics on their social media accounts, and they may have many followers who pay attention to that content.”

Do you currently follow any social media influencer or influencers?

Those who answered “no” were dropped from the survey and those who answered “yes” were directed to a question that asked how often they read and viewed an SMI's content. This question was measured on a 1–5 scale where 1 = rarely and 5 = very often. These subjects then proceeded to answer the rest of the survey.

Social media engagement

To measure this variable, subjects were asked how often they interacted with others on an SMI's social media page(s) by posting reactions such as likes, comments, replies, retweets, emojis, and sharing the content. The question was measured on a 1–5 scale where 1 = never and 5 = very often and was based on measurement from previous studies [25,26].

Perception of knowledge acquisition

Two multi-item scales from previous studies were modified to measure this variable. The first was a seven-item scale gaging the perceived information value and the perceived influence of information by a message recipient [21,78]. An example of a question asking about perceived information value was, “I acquire new information through the influencer(s) that I follow.” An example of a perceived influence question was, “My perceptions often change when I receive information from the influencer (s) that I follow.” The second scale was adopted from the widely used susceptibility to interpersonal influence scale [74] used to measure informational social influence [73]. The questions were modified to suit online social interaction as done in previous studies [75,107]. A sample question was, “I frequently gather information from an SMI's social media page(s) about products, services, or other issues of interest to me.” Subjects responded to all questions based on a 1–5 scale where 1 = totally disagree and 5 = totally agree. A composite perception of knowledge score was then computed from the average of the responses (Cronbach's alpha = 0.91).

Social self-efficacy

Scales for this variable were adapted and modified from two widely used SSE scales, the Sherer and Maddux [91] SSE scale and the Smith and Betz [94] perceived SSE scale. The Sheerer and Maddux scale contains questions on social interaction such as, “it is difficult for me to make new friends” and is measured on a 1–5 scale where 1 = totally disagree and 5 = totally agree. Because some items in this scale use reverse scoring, these items were reverse coded before data analysis. The Smith and Betz scale contains questions measuring a person's confidence in a variety of social scenarios with questions like “how confident are you to start a conversation with someone you don't know very well,” and is measured on

Table 1
Means of variables and reliability alphas for multi-item scales.

Variable	Mean	S.D.	Alpha [†]	Scale
Rate of SMI content consumption.	3.79	1.06	–	1 = never; 5 = very frequently.
SME on an SMI’s page.	3.15	1.27	–	1 = never; 5 = very frequently.
Perception of knowledge acquisition.	3.51	0.82	.91 (11)	1= totally disagree and 5 = totally agree.
Online social interaction.	3.54	1.04	.84 (3)	1= totally disagree and 5 = totally agree.
Offline social interaction.	3.49	1.05	.87 (3)	1= totally disagree and 5 = totally agree.
Social self-efficacy.	3.27	0.8	.94 (31)	1= totally disagree and 5 = totally agree. ^{††}
				1 = no confidence at all and 5 = complete confidence. ^{†††}

[†] Refers to Cronbach’s alpha. The number of items in the scale is shown in parentheses.

^{††} Refers to the Sherer and Maddux [91] scale.

^{†††} Refers to the Smith and Betz [94] scale.

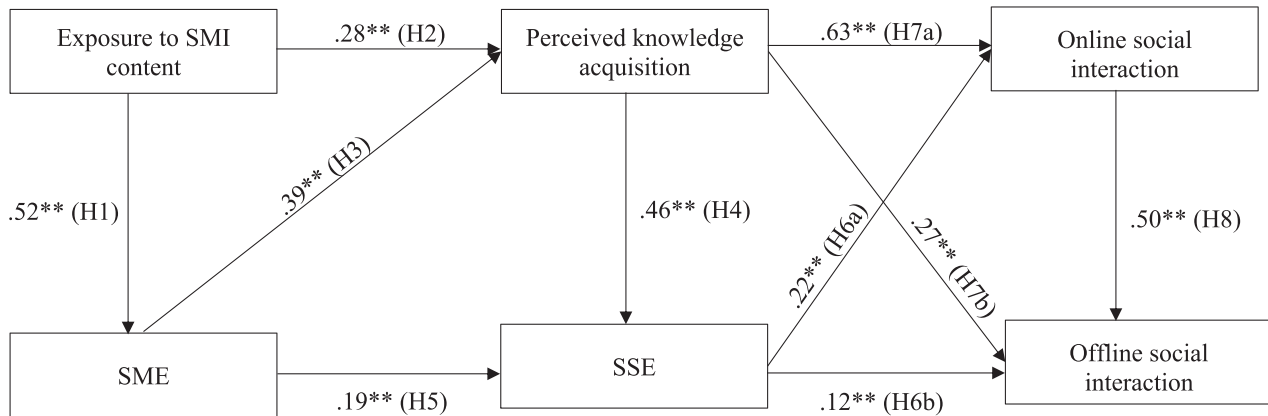


Fig. 2. SEM results for SMI Content, SME, SSE, perception of knowledge, and social interaction.

a 1–5 scale where 1 = no confidence at all and 5 = complete confidence. A composite SSE score was computed from the average of responses to both scales (Cronbach’s alpha = 0.94).

Online and offline social interaction

To measure social interaction, this study used word-of-mouth (WOM) scales for offline interaction and electronic word of mouth (e-WOM) scales for online social interaction. These scales are appropriate for this study given that they measure the likelihood of a person to recommend to others the knowledge they acquired from an SMI [21,78]. A three-item scale was derived and modified from the mentioned studies. One set of questions measured offline social interaction and the other measured online social interaction. For offline interaction, a sample statement was, “I am likely to recommend or share the information suggested by the influencer(s) that I follow to other people I encounter face-to-face.” The online interaction version asked, “I am likely to recommend or share the information suggested by the influencer(s) that I follow to other people I encounter on social media.” Subjects responded based on a 1–5 scale where 1 = not at all likely and 5 = very likely. Composite social interaction scores for online responses and offline social interaction responses respectively were computed from the average of all responses for each measure (Cronbach’s alpha for online social interaction = 0.84; Cronbach’s alpha for offline social interaction = 0.87).

Results

Of the 834 respondents, 52% were female and the average age was 45.82 years. The race and ethnicity demographics were: White Non-Hispanic = 60%; Black Non-Hispanic = 12.5%; Hispanic = 15.5%; Asian = 3.7%; AINAN = 2.8%; NHPI = 0.6%; Other = 2.8%; mixed race = 2.1%. Table 1 summarizes the means of the variables examined and their measurement scales. For data analysis, a maximum likelihood SEM model was run using SPSS Amos. The RMSEA (0.051, $p = .42$)

showed a good fit as did the CFI (0.97) and TLI (0.99). Although the chi-square [$\chi^2 = (d.f. = 5) 15.85; p < .001$] was statistically significant, two factors are mitigating. The significance may be due to the large sample (McQuitty, 2004) and the chi-square per degrees of freedom ratio (CMIN/DF = 3.17) was close to the accepted limit of 3.0 (Kline, 2004).

As shown in Fig. 2, all hypotheses were supported (at the $p < .001$ level of significance). First, exposure to SMI content increased SME (H1, $\beta = 0.52$). Second, both exposure to SMI content (H2, $\beta = 0.28$) and SME based on that content (H3, $\beta = 0.39$) respectively improved the perception of knowledge acquisition. Likewise, the perception of knowledge acquisition increased SSE (H4, $\beta = 0.46$) as well as online (H7a, $\beta = 0.63$), and offline social interactions (H7b, $\beta = 0.27$). SME also increased the SSE (H5, $\beta = 0.19$), and in turn SSE increased both online (H6a, $\beta = 0.22$) and offline social interactions (H6b, $\beta = 0.12$). Lastly, online social interaction increased offline social interaction (H8 $\beta = 0.50$). To get a better understanding of the data, I ran several mediation effects tests to examine the mediating effect of the perception of knowledge acquisition and SSE. Of the eight mediation tests, three indicated a significant effect. First, the perception of knowledge acquisition positively mediated the relationship between exposure to SMI content and online social interaction (H 10a, $\beta = 0.17$). Second, the perception of knowledge acquisition positively mediated the relationship between SME and SSE (H9, $\beta = 0.11$) as well as the relationship between SME and online social interaction (H11a, $\beta = 0.20$). This means that the more a follower perceived that they had acquired knowledge by consuming an SMI’s content and by engaging with others on the SMI’s site, the more likely they were to share this knowledge with others online.

Discussion and implications

This paper examined the effect of following social media influencers regarding exposure to their content, SME with that content, and the collective effect of these two variables on the perception of knowledge acquisition, SSE, and online and offline social interaction. SMIs are a

relatively new phenomena and this study is among others to demonstrate that SMIs affect audiences. To this end, the study made several important findings. First, following an SMI has an empowering effect on followers. Not only does this encourage them to actively engage with the SMI content via SME, this exposure and the resultant engagement boosts a follower's sense of knowledge acquisition as well as their SSE. Second, this empowerment has indirect positive effects upon online and offline social interaction with other people. Third, the mediated effects show that following an SMI produces a chain reaction of effects. Here, the empowerment produced by improved perceptions of knowledge acquisition boosts the effect of exposure to SMI content on online social interaction, the effect of SME on online interaction, and the effect of SME on SSE. Additionally, online social interaction improved offline social interaction, suggesting online to offline effects.

These findings have practical implications. SMIs are generally known for content creation [2,12] and the ever-increasing number of followers shows that wide swathes of the social media sphere is exposed to this content [23]. This suggests implications regarding misinformation, information gatekeeping, and marketing. For one, research already shows that SMIs impact followers in a variety of ways, whether positively [81,82,85,86] or negatively ([65], para. 14; [66], para. 1, para. 5; [67]). This is important in the age of social media misinformation. It is proven that social media has a disinformation and misinformation problem, and some SMIs have played a role [18,63,64]. Because this study and prior research show that SMIs affect knowledge acquisition [80–82,85]; Zhang, Chitagunta, & Kalwani, 202), the quality and authenticity of SMI content becomes very important. It is important that future scholars examine how the quality and authenticity of SMI content affects SSE and related variables. Data from such studies will inform stakeholders on how to better combat social media misinformation.

SMIs continue to gain clout within contemporary communication as they disrupt traditional gatekeeping. SMIs now enjoy a role once exclusive to mainstream media figures and few others [20]. The difference is that mainstream media has a long tradition of fact-checking information before distribution ([108], para. 4; [109,110]). This is largely absent on social media or at the best still nascent ([111], para. 1; [112], para. 1; [113], para. 2). This implies that not only are users exposed to large volumes of unvetted information, but that the knowledge they acquire this way is largely unverified yet empowering regarding perceptions of knowledge acquisition and its effect on improved SSE. Data also suggested that this empowerment had a bigger effect on online social interaction, in addition to suggesting an effect on offline social interaction. This suggests that these newly empowered and “knowledgeable” users are spreading unvetted information further via online and offline social interaction with others, thus amplifying the SMI gatekeeping and information sharing capacity.

Not only have SMIs disrupted information gatekeeping, but they have also changed advertising and marketing dynamics as brands seek influencers and their followers [1,17]. Most SMIs now plug sponsored products and services within their content, and as this becomes common, lines are blurred between SMI content and marketing content [114,115]. Even though the FCC and various social media platforms have rules and regulations to regulate sponsored content [116,117], these regulations are easy to ignore and deceptive advertising among SMIs is still a problem, including among influencers who sell their own products [118]. This is important because the current study indicated that SMI content affects not only the knowledge acquisition among followers, but that this then affects follower's social interaction with others even if the others who were not exposed to SMI content. This suggests that the effect of deceptive advertising on followers may trickle down to those they socially interact with in online and offline contexts.

Limitations

Regardless of the findings reported above, this study naturally comes with certain limitations. For one, the study used self-reported responses

and these carry bias that may compromise the study's reliability and validity [119]. Also, the study used a broad definition of SMIs in the survey questions. It is hard to pin down an exact definition of an SMI given the proliferation of uniquely different social media figures across platforms. Additionally, the diversity of the content that SMIs share only makes this task harder [6,5]. For instance, a political SMI may influence their followers differently from a fitness influencer, who may influence their followers differently from a tech influencer. Lastly, the results are generalizable only to those who follow SMIs given that the sample consisted only of these types of users. Regardless of these limitations, the study gives important insights into society's newest purveyors information.

Funding

Henry W. Hauser and Margaret H. Hauser Chair in Communications at the College of Liberal Arts (the Department of Communication), the University of Texas Rio Grande Valley.

Declaration of Competing Interest

The authors declare the following financial interests/personal relationships which may be considered as potential competing interests: Ben Wasike reports financial support was provided by The University of Texas Rio Grande Valley. Ben Wasike reports a relationship with The University of Texas Rio Grande Valley that includes: employment and funding grants.

Data availability

Data will be made available on request.

References

- [1] A.J. Agrawal, Why influencer marketing will explode in 2017, *Forbes*, 2016. <https://www.forbes.com/sites/ajagrawal/2016/12/27/why-influencer-marketing-will-explode-in-2017/?sh=298d37e420a9>.
- [2] W. Geysler, What is an influencer? – social media influencers defined, *Influencer MarketingHub* (2022). <https://influencermarketinghub.com/what-is-an-influencer/>.
- [3] A. Suuronen, H. Reinikainen, N.S. Borchers, K. Strandberg, When social media influencers go political: an exploratory analysis on the emergence of political topics among Finnish influencers, *Javnost – The Public* 29 (3) (2022) 301–317, doi:10.1080/13183222.2021.1983367.
- [4] C. Abidin, Communicative intimacies: influencers and perceived interconnectedness, *Ada: A J. Gender, New Media Technol.* 8 (2015) 1–16. <http://adanewmedia.org/2015/11/issue8-abidin/>.
- [5] C. Rojek, Celebrity, in: D.T. Cook, J.M. Ryan (Eds.), *The Wiley Blackwell encyclopedia of consumption and consumer studies*, Wiley Blackwell, Hoboken, NJ, 2015, pp. 71–74. doi: 10.1002/9781118989463.
- [6] A. Ruiz-Gómez, Digital fame and fortune in the age of social media: a classification of social media influencers. *adResearch ESIC, Tetrahedron Lett.* 19 (19) (2019) 8–29, doi:10.7263/adresic-019-0.
- [7] S. Cunningham, D. Craig, Being “really real” on YouTube: authenticity, community and brand culture in social media entertainment, *Media Int. Australia* 164 (1) (2017) 71–81, doi:10.1177/1329878X17709098.
- [8] B.E. Duffy, E. Wissinger, Mythologies of creative work in the social media age: fun, free, and “Just Being Me”, *Tetrahedron Lett.* 11 (2017) 4652–4671. <https://ijoc.org/index.php/ijoc/article/view/7322>.
- [9] F.P. Leite, P. Baptista, P. de, The effects of social media influencers' self-disclosure on behavioral intentions: the role of source credibility, parasocial relationships, and brand trust, *J. Market. Theory Practice* (2021) 1–17, doi:10.1080/10696679.2021.1935275.
- [10] C. Lou, Social media influencers and followers: theorization of a trans-parasocial relation and explication of its implications for influencer advertising, *J. Advert.* 51 (1) (2021) 4–21, doi:10.1080/00913367.2021.1880345.
- [11] A. Yang, Famous Tech YouTuber has Side Gig As Ultimate Frisbee Pro, *NBC New York*, 2019. <https://www.nbcnewyork.com/news/local/famous-tech-youtuber-has-side-gig-as-ultimate-frisbee-pro/1522966/>.
- [12] H. Bause, Political social media influencers as opinion leaders? *Publizistik* 66 (2) (2021) 295–316, doi:10.1007/s11616-021-00666-z.
- [13] POLITICO. (2022). The recast power list. <https://www.politico.com/interactives/2022/influential-people-on-race-and-politics-list/>
- [14] D. Schmuck, M. Hirsch, A. Stevic, J. Matthes, Politics – Simply explained? How influencers affect youth's perceived simplification of politics, political cynicism, and political interest, *Int J Press Polit* 27 (3) (2022) 738–762, doi:10.1177/19401612221088987.

- [15] K. Cuzzone, 12 Black Fitness Influencers to Follow On Instagram, like, Yesterday, COSMOPOLITAN, 2020. <https://www.cosmopolitan.com/health-fitness/g33240864/fit-black-women-on-instagram/>.
- [16] G.S. Dhanesh, G. Duthler, Relationship management through social media influencers: effects of followers' awareness of paid endorsement, *Public Relat. Rev.* 45 (3) (2019), doi:10.1016/j.pubrev.2019.03.002.
- [17] Freberg, K. G, K. McGaughey, L.A. Freberg, Who are the social media influencers? A study of public perceptions of personality, *Public Relat. Rev.* 37 (1) (2011) 90–92, doi:10.1016/j.pubrev.2010.11.001.
- [18] Center for Countering Digital Hate (2021, March 24). The Disinformation Dozen. https://www.counterhate.com/_files/ugd/f4d9b9_b7cedc0553604720b7137f8663366ee5.pdf
- [19] N. Grinberg, K. Joseph, L. Friedland, B. Swire-Thompson, D. Lazer, Fake news on Twitter during the 2016 U.S. presidential election, *Science* 363 (6425) (2019) 374–378, doi:10.1126/science.aau2706.
- [20] M. Navarro, A. Molleda, C. J, N. Khalil, P. Verhoeven, The challenge of new gatekeepers for public relations. A comparative analysis of the role of social media influencers for European and Latin American professionals, *Public Relat. Rev.* 46 (2) (2020), doi:10.1016/j.pubrev.2020.101881.
- [21] R. Sánchez-Fernández, D. Jiménez-Castillo, How social media influencers affect behavioural intentions towards recommended brands: the role of emotional attachment and information value, *J. Mark* 37 (11–12) (2021) 1123–1147, doi:10.1080/0267257X.2020.1866648.
- [22] A.N. Tolbert, K.L. Drogos, Tweens' wishful identification and parasocial relationships with YouTubers, *Front. Psychol.* 10 (2019) 2781, doi:10.3389/fpsyg.2019.02781.
- [23] YouGov. (2021, October 18). Game-changers: The power of gaming influencers. Part 1. <https://business.yougov.com/content/38826-international-gaming-report-2021?ga=2.209938197.1441979521.1651880402-1309465120.1651880402>
- [24] J. Kietzmann, K. Hermkens, I. McCarthy, B. Silvestre, Social media? Get serious! Understanding the functional building blocks of social media, *Bus. Horiz.* 54 (3) (2011) 241–251, doi:10.1016/j.bushor.2011.01.005.
- [25] Y. Li, Y. Xie, Is a picture worth a thousand words? an empirical study of image content and social media engagement, *J. Market. Res.* 57 (1) (2020) 1–19, doi:10.1177/0022243719881113.
- [26] B. Wasike, When the influencer says jump! How influencer signaling affects engagement with COVID-19 misinformation, *Soc. Sci. Med.* 315 (2022) 115597, doi:10.1016/j.socscimed.2022.115497.
- [27] E. Goffman, *Behavior in Public places: Notes on the Social Organization of Gatherings*, The Free Press, 1963.
- [28] J.A. Hall, When is social media use social interaction? Defining mediated social interaction, *New Media & Society* 20 (1) (2018) 162–179, doi:10.1177/14614448166660782.
- [29] W. Little, Social interaction, in: W. little, R. McGivern (Eds.), *Introduction to Sociology*, 2nd Canadian Ed., OpenStax College, 2016, pp. 861–880. <https://opentextbc.ca/introductiontosociology2ndedition/>.
- [30] P.D.C. Ferreira, A.M. Veiga Simão, N.S. Pereira, P. Paulino, S. Oliveira, Online verbal aggression, social relationships, and self-efficacy beliefs, *New media & society* 23 (5) (2021) 960–981, doi:10.1177/1461444820905531.
- [31] S.S. Kahai, Y. Lei, Building social self-efficacy with Facebook: type of network, availability of other media, and social self-efficacy matter, *Int. J. Hum. Comput. Stud.* 130 (2019) 113–129, doi:10.1016/j.ijhcs.2019.05.013.
- [32] K.J. Zullig, R.F. Valois, A preliminary study measuring social self-efficacy among early adolescents and its association with aggressive behavior, *J. Sch. Violence* 18 (4) (2019) 498–509, doi:10.1080/15388220.2018.1553718.
- [33] H. Hwang, K. Kim, Social media as a tool for social movements: the effect of social media use and social capital on intention to participate in social movements, *Int. J. Consum. Stud.* 39 (5) (2015) 478–488, doi:10.1111/ijcs.12221.
- [34] Y. Su, D. Lee, P. Borah, The conditional indirect effects of political social media information seeking and expression on government evaluation in Hong Kong: revisiting the communication mediation model, *Tetrahedron Lett.* 15 (2021) 277–299. <https://ijoc.org/index.php/ijoc/article/view/15374>.
- [35] A. Velasquez, R. LaRose, Social media for social change: social media political efficacy and activism in student activist groups, *J. Broadcast. Electron. Media* 59 (3) (2015) 456–474, doi:10.1080/08838151.2015.1054998.
- [36] J.M. Đorđević, S. Mari, M. Vdović, A. Milošević, Links between conspiracy beliefs, vaccine knowledge, and trust: anti-vaccine behavior of Serbian adults, *Soc Sci Med* 277 (1982) (2021) 113930–113930, doi:10.1016/j.socscimed.2021.113930.
- [37] S. Pola, Medical Misinformation Runs rampant, and Many Americans have Trouble Identifying it, GoodRX Health, 2022. <https://www.goodrx.com/healthcare-access/research/medical-misinformation-survey>.
- [38] S. Yang, S. Lin, J.R. Carlson, W.T. Ross, Brand engagement on social media: will firms' social media efforts influence search engine advertising effectiveness? *J. Mark* 32 (5–6) (2016) 526–557, doi:10.1080/0267257X.2016.1143863.
- [39] Forbes. (2022, January 15). The 15 up & coming social media influencers to know and follow in 2022. <https://forbespeople.com/the-15-up-coming-social-media-influencers-to-know-and-follow-in-2022/>.
- [40] D. Dumitrica, Imagining engagement: youth, social media, and electoral processes, *Convergence* (London, England) 22 (1) (2016) 35–53, doi:10.1177/1354856514553899.
- [41] M. Lonkila, P. Jokivuori, Sharing and liking as youth nano-level participation. Finnish students' civic and political engagement in social media, *J. Youth Stud* (2022), doi:10.1080/13676261.2022.2049731.
- [42] A. Symonds, Why Don't Young People vote, and What Can Be Done About it? October 8, The New York Times, 2020. <https://www.nytimes.com/2020/10/08/upshot/youth-voting-2020-election.html>.
- [43] H. Gil de Zúñiga, V. Garcia-Perdomo, S.C. McGregor, Exploring motivations of second screen use and its effect on online political participation, *J. Commun.* 65 (5) (2015) 793–815, doi:10.1111/jcom.12174.
- [44] Y. Liu, S. Zhou, H. Zhang, Second screening use and its effect on political involvement in China: an integrated communication mediation model, *Comput. Hum. Behav.* 105 (2020), doi:10.1016/j.chb.2019.10620.
- [45] D. Choi, S. Nah, D.S. Chung, Social media as a civic mobilizer: community storytelling network, social media, and civic engagement in South Korea, *J. Broadcast. Electron. Media* 65 (1) (2021) 46–65, doi:10.1080/08838151.2021.1897818.
- [46] A.M. Smith, R.R. Ortiz, #MeToo social media engagement and perceived hypersensitivity in the workplace, *Commun. Stud.* 72 (4) (2021) 531–546, doi:10.1080/10510974.2021.1953091.
- [47] B. Weeks, A. Ardévol-Abreu, H. Gil de Zúñiga, Online influence? social media use, opinion leadership, and political persuasion, *Int. J. Public Opin. Res.* 29 (2) (2017) 214–239, doi:10.1093/ijpor/edv050.
- [48] R. Shi, P. Messaris, J.N. Cappella, Effects of online comments on smokers' perception of antismoking public service announcements, *J. Comput. Mediat. Commun.* 19 (4) (2014) 975–990, doi:10.1111/jcc4.12057.
- [49] B. Cao, C. Liu, M. Durvasula, W. Tang, S. Pan, A.J. Saffer, C. Wei, J.D. Tucker, Social media engagement and HIV testing among men who have sex with men in China: a nationwide cross-sectional survey, *J. Med. Internet Res.* 19 (7) (2017), doi:10.2196/jmir.7251.
- [50] Zhang, M. L, Y. Li, J.E. Chung, Teens' social media engagement during the COVID-19 Pandemic: a time series examination of posting and emotion on reddit, *Int. J. Environ. Res.* 18 (19) (2021), doi:10.3390/ijerph181910079.
- [51] G. Fan, F. Economides, M. J, C.K. Black, D.H. Song, The public's preferences on plastic surgery social media engagement and professionalism: demystifying the impact of demographics, *Plast. Reconstr. Surg.* 143 (2) (2019) 619–630, doi:10.1097/PRS.00000000000005205.
- [52] J.M. Swirsky, M. Rosie, H. Xie, Adjustment correlates of social media engagement among early adolescents, *J. Youth Adolesc.* 50 (12) (2021) 2265–2278, doi:10.1007/s10964-021-01421-3.
- [53] G. Throuvala, D. M, M.D. Griffiths, M. Renoldson, D.J. Kuss, A "control model" of social media engagement in adolescence: a grounded theory analysis, *Int. J. Environ. Res.* 16 (23) (2019) 4696–, doi:10.3390/ijerph16234696.
- [54] C. Hébert, R. K, S.H. Kelder, J. Delk, C.L. Perry, M.B. Harrell, Exposure and engagement with tobacco- and e-cigarette-related social media, *J. Adolesc. Health* 61 (3) (2017) 371–377, doi:10.1016/j.jadohealth.2017.04.003.
- [55] S. Chung, H. Cho, Fostering parasocial relationships with celebrities on social media: implications for celebrity endorsement, *Psychol. Market.* 34 (4) (2017) 481–495, doi:10.1002/mar.21001.
- [56] K.Y. Koay, M.L. Cheung, P.C.-H. Soh, C.W. Teoh, Social media influencer marketing: the moderating role of materialism, *Eur. Bus. Rev.* 34 (2) (2022) 224–243, doi:10.1108/EBR-02-2021-0032.
- [57] P. Manchanda, N. Arora, V. Sethi, Impact of beauty vlogger's credibility and popularity on eWOM sharing intention: the mediating role of parasocial interaction, *J. Promotion Manage.* 28 (3) (2022) 379–412, doi:10.1080/10496491.2021.1989542.
- [58] Y. Su, T. Kunkel, N. Ye, When abs do not sell: the impact of male influencers conspicuously displaying a muscular body on female followers, *Psychol. Market.* 38 (2) (2021) 286–297, doi:10.1002/mar.21322.
- [59] S. Gupta, S.B. Dash, R. Mahajan, The role of social influencers for effective public health communication, *Online information review* (2021) ahead-of-print(ahead-of-print), doi:10.1108/OIR-01-2021-0012.
- [60] G. Kostygina, H. Tran, S. Binns, G. Szczytko, S. Emery, D. Vallone, E. Hair, Boosting health campaign reach and engagement through use of social media influencers and memes, *Social Media & Society* 6 (2) (2020), doi:10.1177/2056305120912475.
- [61] R. Pop, Z. Săplăcan, D.-C. Dabija, M.-A. Alt, The impact of social media influencers on travel decisions: the role of trust in consumer decision journey, *Curr. Issues in Tourism* 25 (5) (2022) 823–843, doi:10.1080/13683500.2021.1895729.
- [62] Y. Shmargad, Twitter influencers in the 2016 US Congressional races, *J. political market.* 21 (1) (2022) 23–40, doi:10.1080/15377857.2018.1513385.
- [63] S. Frenkel, D. Alba, How the 'Pandemic' Movie and Its Falsehoods Spread Widely Online May 21, The New York Times, 2020. <https://www.nytimes.com/2020/05/20/technology/plandemic-movie-youtube-facebook-coronavirus.html>.
- [64] W. Ahmed, F. López Seguí, J. Vidal-Alaball, M.S. Katz, COVID-19 and the "Film Your Hospital" conspiracy theory: social network analysis of twitter data, *J. Med. Internet Res.* 22 (10) (2020), doi:10.2196/22374.
- [65] L. Aratani, How Did Face Masks Become a Political Issue in America? June 29, The Guardian, 2020. <https://www.theguardian.com/world/2020/jun/29/face-masks-us-politics-coronavirus>.
- [66] C. Pazzanese, Battling the 'pandemic of Misinformation' May 8, The Harvard Gazette, 2020 From. <https://news.harvard.edu/gazette/story/2020/05/social-media-used-to-spread-create-covid-19-falsehoods/>.
- [67] K.N. Rasmus, R. Fletcher, J. Newman, J.S. Brennen, P.N. Howard, Navigating the 'infodemic': How People in Six Countries Access and Rate News and Information About Coronavirus April 15, Reuters Institute for the Study of Journalism, 2020. <https://www.politico.eu/wp-content/uploads/2020/04/Navigating-the-Coronavirus-infodemic.pdf>.
- [68] S. Lee, M. Xenos, Social distraction? Social media use and political knowledge in two U.S. Presidential elections, *Comput. Hum. Behav.* 90 (2019) 18–25, doi:10.1016/j.chb.2018.08.006.

- [69] A. Shehata, J. Strömbäck, Learning political news from social media: network media logic and current affairs news learning in a high-choice media Environment, *Communic. Res.* 48 (1) (2021) 125–147, doi:[10.1177/0093650217749354](https://doi.org/10.1177/0093650217749354).
- [70] P.F.A. van Erkel, P. Van Aelst, Why don't we learn from social media? studying effects of and mechanisms behind social media news use on general surveillance political knowledge, *Politi. communic.* 38 (4) (2021) 407–425, doi:[10.1080/10584609.2020.1784328](https://doi.org/10.1080/10584609.2020.1784328).
- [71] A. Oeldorf-Hirsch, The role of engagement in learning from active and incidental news exposure on social media, *Mass Commun. Soc.* 21 (2) (2018) 225–247, doi:[10.1080/15205436.2017.1384022](https://doi.org/10.1080/15205436.2017.1384022).
- [72] L. Bode, Political news in the news feed: learning politics from social media, *Mass Commun. Soc.* 19 (1) (2016) 24–48, doi:[10.1080/15205436.2015.1045149](https://doi.org/10.1080/15205436.2015.1045149).
- [73] M. Deutsch, H.B. Gerard, A study of normative and informational social influences upon individual judgment, *J. Abnorm. Soc. Psychol.* 51 (3) (1955) 629–636, doi:[10.1037/h0046408](https://doi.org/10.1037/h0046408).
- [74] W.O. Bearden, R.G. Netemeyer, J.E. Teel, Measurement of consumer susceptibility to social influence, *J. Consum. Res.* 15 (4) (1989) 473–481, doi:[10.1086/209186](https://doi.org/10.1086/209186).
- [75] Y. Shen, C. Huang, C. Chu, H. Liao, Virtual community loyalty: an social-interaction perspective, *Int. J. Electronic Commerce* 15 (1) (2010) 49–74, doi:[10.2753/JEC1086-441510102](https://doi.org/10.2753/JEC1086-441510102).
- [76] K.Y.Y. Kuan, Y. Zhong, P.Y.K. Chau, Informational and normative social influence in group-buying: evidence from self-reported and EEG data, *J. Manage. Infor. Syst.* 30 (4) (2014) 151–178, doi:[10.2753/MIS0742-1222300406](https://doi.org/10.2753/MIS0742-1222300406).
- [77] M.K.O. Lee, N. Shi, C.M. Cheung, K.H. Lim, C.L. Sia, Consumer's decision to shop online: the moderating role of positive information social influence, *Infor. Manage.* 48 (6) (2011) 185–191, doi:[10.1016/j.im.2010.08.005](https://doi.org/10.1016/j.im.2010.08.005).
- [78] C.C. Ki, Y. Kim, The mechanism by which social media influencers persuade consumers: the role of consumers' desire to mimic, *Psychol. market.* 36 (10) (2019) 905–922, doi:[10.1002/mar.21244](https://doi.org/10.1002/mar.21244).
- [79] W. Zhang, P.K. Chintagunta, M.U. Kalwani, Social media, influencers, and adoption of an eco-friendly product: field experiment evidence from rural China, *J. Mark.* 85 (3) (2021) 10–27, doi:[10.1177/0022242920985784](https://doi.org/10.1177/0022242920985784).
- [80] C. Kai-Chieh, H. Chih-Chen, L. Liang-Tay, T. Hsin Hao, The identification of ideal social media influencers: integrating the social capital, social exchange, and social learning theories, *J. electr. Commerce Res.* 22 (1) (2021) 4–21.
- [81] C. Abidin, Minahs and minority celebrity: parody YouTube influencers and minority politics in Singapore, *Celebrity stud.* 12 (4) (2021) 598–617, doi:[10.1080/19392397.2019.1698816](https://doi.org/10.1080/19392397.2019.1698816).
- [82] I. Maly, Metapolitical new right influencers: the case of Brittany Pettibone, *Soc. sci. (Basel)* 9 (7) (2020) 113, doi:[10.3390/socsci9070113](https://doi.org/10.3390/socsci9070113).
- [83] H. Dekoninck, D. Schmuck, The mobilizing power of influencers for pro-environmental behavior intentions and political participation, *Kankyo Hen'gen Kenkyu* (2022), doi:[10.1080/17524032.2022.2027801](https://doi.org/10.1080/17524032.2022.2027801).
- [84] D. Zimmermann, C. Noll, L. Graesser, K.-U. Hugger, L.M. Braun, T. Nowak, K. Kaspar, Influencers on YouTube: a quantitative study on young people's use and perception of videos about political and societal topics, *Curr. Psychol.* (2020), doi:[10.1007/s12144-020-01164-7](https://doi.org/10.1007/s12144-020-01164-7).
- [85] N. Fielden, P. Holch, Exploring the influence of social media influencers on intention to attend cervical screening in the uk: utilising the theory of planned behaviour, *Cancer Control* 29 (2022) 10732748221079480-10732748221079480, doi:[10.1177/10732748221079480](https://doi.org/10.1177/10732748221079480).
- [86] R. Heiss, L. Rudolph, Patients as health influencers: motivations and consequences of following cancer patients on Instagram, *Behav. Inf. Technol.* (2022), doi:[10.1080/0144929X.2022.2045358](https://doi.org/10.1080/0144929X.2022.2045358).
- [87] H. Yousuf, J. Corbin, G. Sweep, M. Hofstra, E. Scherder, E. van Gorp, P.P. Zwetsloot, J. Zhao, B. van Rossum, T. Jiang, J.W. Lindemans, J. Narula, L. Hofstra, Association of a public health campaign about coronavirus disease 2019 promoted by news media and a social influencer with self-reported personal hygiene and physical distancing in the Netherlands, *JAMA Netw. Open* 3 (7) (2020).
- [88] E. Bonnevie, S.D. Rosenberg, C. Kummeth, J. Goldbarge, E. Wartella, J. Smyser, Using social media influencers to increase knowledge and positive attitudes toward the flu vaccine, *PLoS ONE* 15 (10) (2020) e0240828-e0240828, doi:[10.1371/journal.pone.0240828](https://doi.org/10.1371/journal.pone.0240828).
- [89] A. Bandura, Self-efficacy: toward a unifying theory of behavioral change, *Psychol. Rev.* 84 (2) (1977) 191–215, doi:[10.1037/0033-295X.84.2.191](https://doi.org/10.1037/0033-295X.84.2.191).
- [90] A. Bandura, *Self-efficacy: The exercise of Control*, W.H. Freeman Company, New York, 1997.
- [91] M. Sherer, J.E. Maddux, *The self-efficacy scale: construction and validation*, *Psychol. Rep.* 51 (1982) 663–671.
- [92] J. Connolly, Social self-efficacy in adolescence: relations with self-concept, social adjustment, and mental health, *Can. J. Behav. Sci.* 21 (3) (1989) 258–269, doi:[10.1037/h0079809](https://doi.org/10.1037/h0079809).
- [93] P. Muris, A brief questionnaire for measuring self-efficacy in youths, *J. Psychopathol. Behav. Assess.* 23 (3) (2001) 145–149, doi:[10.1023/A:1010961119608](https://doi.org/10.1023/A:1010961119608).
- [94] H.M. Smith, N.E. Betz, Development and validation of a scale of perceived social self-efficacy, *J. Career Assess.* 8 (3) (2000) 283–301, doi:[10.1177/10690727000800306](https://doi.org/10.1177/10690727000800306).
- [95] P. Pascual-Ferrá, N. Alperstein, D.J. Barnett, R.N. Rimal, Toxicity and verbal aggression on social media: polarized discourse on wearing face masks during the COVID-19 pandemic, *Big Data Soc.* 8 (1) (2021), doi:[10.1177/20539517211023533](https://doi.org/10.1177/20539517211023533).
- [96] D. Olenik-Shemesh, T. Heiman, Cyberbullying victimization in adolescents as related to body esteem, social support, and social self-efficacy, *J. Genet. Psychol.* 178 (1) (2017) 28–43, doi:[10.1080/00221325.2016.1195331](https://doi.org/10.1080/00221325.2016.1195331).
- [97] R.D. Field, R.M. Tobin, M. Reese-Weber, Agreeableness, social self-efficacy, and conflict resolution strategies, *J. Individ. Differ.* 35 (2) (2014) 95–102, doi:[10.1027/1614-0001/a000131](https://doi.org/10.1027/1614-0001/a000131).
- [98] M.G. Constantine, S. Okazaki, S.O. Utsey, Self-concealment, social self-efficacy, acculturative stress, and depression in African, Asian, and Latin American international college students, *Am. J. Orthopsychiatry* 74 (3) (2004) 230–241, doi:[10.1037/0002-9432.74.3.230](https://doi.org/10.1037/0002-9432.74.3.230).
- [99] J. Leng, Q. Guo, B. Ma, S. Zhang, P. Sun, Bridging personality and online prosocial behavior: the roles of empathy, moral identity, and social self-efficacy, *Front. Psychol.* 11 (2020), doi:[10.3389/fpsyg.2020.575053](https://doi.org/10.3389/fpsyg.2020.575053).
- [100] C. Li, X. Shi, J. Dang, Online communication and subjective well-being in Chinese college students: the mediating role of shyness and social self-efficacy, *Comput. Hum. Behav.* 34 (2014) 89–95, doi:[10.1016/j.chb.2014.01.032](https://doi.org/10.1016/j.chb.2014.01.032).
- [101] Y. Yang, Y. Dongdong, H. Yu, Comparative study on relationship between inconsistent online-offline social performance and self-efficacy of university students based on types of social activity, *Front. Psychol.* 12 (2021), doi:[10.3389/fpsyg.2021.603971](https://doi.org/10.3389/fpsyg.2021.603971).
- [102] X. Sun, Y. Zhang, G. Niu, Y. Tian, L. Xu, C. Duan, Ostracism and problematic smartphone use: the mediating effect of social self-efficacy and moderating effect of rejection sensitivity, *Int. J. Ment. Health Addict.* (2021), doi:[10.1007/s11469-021-00661-5](https://doi.org/10.1007/s11469-021-00661-5).
- [103] J. Fiset, D.P. Bhavne, Mind your language: the effects of linguistic ostracism on social work behaviors, *J. Manage.* 47 (2) (2021) 430–455, doi:[10.1177/0149206319833445](https://doi.org/10.1177/0149206319833445).
- [104] J. Belliveau, I. Yakovenko, Evaluating and improving the quality of survey data from panel and crowd-sourced samples: a practical guide for psychological research, *Exp. Clin. Psychopharmacol.* (2022), doi:[10.1037/pha0000564](https://doi.org/10.1037/pha0000564).
- [105] T.P. Holt, T.M. Loraas, Using Qualtrics panels to source external auditors: a replication study, *Int. J. Comput., Inf., Syst. Sci., Eng.* 33 (1) (2019) 29–41, doi:[10.2308/isys-51986](https://doi.org/10.2308/isys-51986).
- [106] G. Paolacci, J. Chandler, P. Ipeirotis, Running experiments on amazon mechanical Turk, *Judgm. Decis. Mak.* 5 (5) (2010) 411–419. <http://hdl.handle.net/1765/31983>.
- [107] H. Zhang, X. Gong, Consumer susceptibility to social influence in new product diffusion networks: how does network location matter? *Eur. J. Mark.* 55 (5) (2021) 1469–1488, doi:[10.1108/EJM-06-2019-0491](https://doi.org/10.1108/EJM-06-2019-0491).
- [108] C. Dickey, The rise and fall of facts, *Columbia J. Rev.* (2019). https://www.cjr.org/special_report/rise-and-fall-of-fact-checking.php.
- [109] M. Dobbs, The rise of political fact-checking how Reagan inspired a journalistic movement: a reporter's eye view, *New Am. Foundation* (2012). <https://www.issuelab.org/resources/15318/15318.pdf>.
- [110] L. Graves, M. Amazeen, Fact-Checking as idea and practice in journalism, *Oxford Research Encyclopedia of Communication*, 2019. <https://oxfordre.com/communication/view/10.1093/acrefore/9780190228613.001.0001/acrefore-9780190228613-e-808>.
- [111] C.M. Marcos, YouTube Has Removed More Than 500,000 COVID-19 Misinformation Videos Since February January 27, USA Today, 2021. <https://www.usatoday.com/story/tech/2021/01/27/youtube-removed-half-million-covid-19-misinformation-videos/4278489001/>.
- [112] ReutersFacebook Removes Seven Million Posts For Sharing False Information On coronavirus. Reuters August 11, NBC News, 2020. <https://www.nbcnews.com/tech/tech-news/facebook-removes-seven-million-posts-sharing-false-information-coronav-rcna77>.
- [113] Zuckerberg, M. (2016, November 8). *No title*. Meta. <https://www.facebook.com/zuck/posts/a-lot-of-you-have-asked-what-were-doing-about-misinformation-so-i-wanted-to-give/10103269806149061/>
- [114] E. Alvarez, YouTube stars are blurring the lines between content and ads, *Engadget* (2017). <https://www.engadget.com/2017-07-25-youtube-influencers-sponsored-videos.html>.
- [115] C. Campbell, P.E. Grimm, The challenges native advertising poses: exploring potential federal trade commission responses and identifying research needs, *J. Public Pol. Market.* 38 (1) (2019) 110–123, doi:[10.1177/0743915618818576](https://doi.org/10.1177/0743915618818576).
- [116] FCC. (2019). Disclosure 101 for social media influencers. <https://www.ftc.gov/system/files/documents/plain-language/1001a-influencer-guide-508.1.pdf>
- [117] Google. (n.d.). Add paid product placements, sponsorships & endorsements. <https://support.google.com/youtube/answer/154235?hl=en&zipy=%2Cd0-i-need-to-tell-anyone-else-about-any-commercial-relationship-connected-to-my-video>
- [118] A. Paredes, (2020). Wellness Influencers Sell False Promises As Health Fears Soar. *WIRED*. <https://www.wired.com/story/coronavirus-anxieties-soar-wellness-influencers-step-in/>.
- [119] R.S. Kreitchmann, F.J. Abad, V. Ponsoda, M.D. Nieto, D. Morillo, Controlling for response biases in self-report scales: forced-choice vs. psychometric modeling of Likert items, *Front. Psychol.* 10 (2019) 2309–2309, doi:[10.3389/fpsyg.2019.02309](https://doi.org/10.3389/fpsyg.2019.02309).

Further Reading

- X. Hu, X. Chen, R.M. Davison, Social support, source credibility, social influence, and impulsive purchase behavior in social commerce, *Int. J. Electron. Commerce* 23 (3) (2019) 297–327, doi:[10.1080/10864415.2019.1619905](https://doi.org/10.1080/10864415.2019.1619905).

Ben Wasike is a professor in the Communication Department at the University of Texas Rio Grande Valley. He teaches classes in visual communication, communication theory, and research methods, among others. His research focusses on social media communication, political communication, and law and policy issues.