Commentary

Tackling misinformation: What researchers could do with social media data


Introduction

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Social media platforms rarely provide data to misinformation researchers. This is problematic as platforms play a major role in the diffusion and amplification of mis- and disinformation narratives. Scientists are often left working with partial or biased data and must rush to archive relevant data as soon as it appears on the platforms, before it is suddenly and permanently removed by deplatforming operations. Alternatively, scientists have conducted off-platform laboratory research that approximates social media use. While this can provide useful insights, this approach can have severely limited external validity (though see Munger, 2017; Pennycook et al. 2020). For researchers in the field of misinformation, emphasizing the necessity of establishing better collaborations with social media platforms has become...
routine. In-lab studies and off-platform investigations can only take us so far. Increased data access would enable researchers to perform studies on a broader scale, allow for improved characterization of misinformation in real-world contexts, and facilitate the testing of interventions to prevent the spread of misinformation. The current paper highlights 15 opinions from researchers detailing these possibilities and describes research that could hypothetically be conducted if social media data were more readily available. As scientists, our findings are only as good as the dataset at our disposal, and with the current misinformation crisis, it is urgent that we have access to real-world data where misinformation is wreaking the most havoc.

While new collaborative efforts are gradually emerging (e.g., Clegg, 2020; Mervis, 2020), they remain scarce and unevenly distributed across research communities and disciplines. Platforms periodically fund research initiatives on mis- and disinformation, but these rarely include increased access to data and algorithmic models. Most importantly, in these kinds of collaborations, intellectual freedom is easily limited by the fact that the overarching scope of the research is not defined by the researchers, but by the platforms themselves. In the rare case data sharing is a possibility, negotiations have been slow for several reasons, including platforms’ concerns over protecting their brands and reputation, and ethical and legal issues of privacy and data security on a grand scale (Bechmann & Kim, 2020; Olteanu et al., 2019). However, these barriers are not insurmountable (Moreno et al., 2013; Lazer et al. 2020). For instance, establishing a mechanism by which users can actively consent to various research studies, and potentially offering to make the data available to the participants themselves, would be a significant step forward (Donovan, 2020).

We invited misinformation researchers to write a 250-word commentary about the research that they would hypothetically conduct if they had access to consenting participants’ social media data. The excerpts below provide concrete examples of studies that misinformation researchers could conduct, if the community had better access to platforms’ data and processes. Based on the contents of the submission, we have grouped these brief excerpts into five areas that could be improved, and conclude with an excerpt regarding the importance of data sharing:

1. measurement and design,
2. who engages with misinformation and why,
3. unique datasets with increased validity,
4. disinformation campaigns,
5. interventions, and
6. the importance of data sharing.

While these excerpts are not comprehensive and may not be representative of the field as a whole, our hope is that this multi-authored piece will further the conversation regarding the establishment of more evenly distributed collaborations between researchers and platforms. Despite the challenges, on the other side of these negotiations are a vast array of potential discoveries that are needed by both the nascent field of misinformation as well as society.

**Measurement and design**

**The need for impression data in misinformation research**

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One of the main challenges in studying misinformation on social media is the inability to get the true reach of the content that is being shared. There are two metrics that measure the reach of a piece of content
being posted on social media: expressions and impressions. Expressions correspond to the people who engaged with the content (e.g., retweeted it or liked it), while impressions correspond to the people who read that content. While expression data can be used to map how misinformation spreads, the true impact of misinformation can only be measured using impression data. Expression data is usually made available by social media platforms; impression data, however, is kept hidden from researchers. If the social media platforms were to make fine-grained impression data (i.e., who read what, when) available, we would be able to measure the true reach of misinformation. This would allow us to study, amongst other things, the difference between posts containing misinformation that are read and shared to those that are read but not shared; and the difference between the people who read and share misinformation to those who read but do not share. This will shed light on some of the factors involved in people deciding whether to share content that contains misinformation, potentially allowing us to predict in advance the virality and the diffusion path of misinformation with much greater accuracy than is currently possible. Additionally, these findings can help devise more effective intervention strategies to dampen the spread of misinformation.

**External randomized controlled trials (RCT) with no internal controls**

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The most important contribution social media companies could make to the study of misinformation would be to allow external researchers to regularly conduct randomized controlled trials on their platforms, without interference or involvement from the companies themselves. While randomized control trials (RCTs) are among the strongest tools in a researcher’s toolbox, prior collaborations between academics and social media companies have prohibited them. Some companies have allowed researchers to conduct experiments, but these opportunities have been limited and questions of conflict of interest may arise. What is needed is a rolling opportunity for researchers to conduct independent RCTs on the largest platforms. Whether a proposed RCT is allowed should not be left to the discretion of the companies, but instead determined by a group of outside ethical and legal specialists, similar to a university Institutional Review Board (IRB). This group would minimize conflicts of interest and ensure that any research conducted would adhere to the IRB principles of confidentiality and privacy. Given such a system, a wide range of questions would suddenly become possible to answer. What kinds of interventions are most effective at reducing an individual’s propensity to share misinformation? Does exposure to one’s political opponents or allies affect willingness to share misinformation? To what extent, if any, does revealing the source of factual interventions affect behavior? This would just be the tip of the iceberg. Answers would come via individual-level data gathered on the platforms themselves, thus offering immediate external validity. Both the scientific and public understanding of the challenges of—and potential solutions to—misinformation would be significantly enhanced as a result.

**What does the public need from social media platforms to really study fake news?**

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Social media platforms, to various degrees, already provide data for academic purposes. However, these data are often quite limited in their ability to answer critical research questions. Rather than ask “what would we do with platform data?” then, we here address the question, “what data and tools do we really
need to make progress?” We identify five broad avenues of future collaboration between platforms and the academic community that will be a leap forward in public understanding of the usage and impacts of these platforms: (a) A framework for targeting academic-led experiments and survey to relevant populations (e.g., based on online user activity, profile information); (b) Information about individual-level exposure to (mis)information and the ways individuals interacted with that (mis)information; (c) Signals about message authenticity and the origination of actions taken on the platform (e.g. was this action likely taken via automated or human-like behavior?); (d) Transparent and up-to-date information about content curation and moderation by algorithms and company personnel, including political ads; and (e) broader data access to larger subsets of historical data and to a wider range of platforms, especially in the form of well-behaved APIs for Instagram, TikTok, WhatsApp, and YouTube. Forming these tighter collaborations raises important questions about privacy and trust, but finding solutions to these issues may be in the public’s best interest if we as a society were to understand the full gravity of the post-truth trends.

Who engages with misinformation and why

Understanding how communication about misinformation can help to combat it
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People spread misinformation by intentionally sharing it among their network contacts, and it is widely presumed that those sharing and receiving misinformation find it to be veracious. However, there are many reasons that people may share misinformation. For example, although people might share information because they believe it to be true, they may also share misinformation for entertainment purposes, sarcastic reasons, or to challenge the misinformation. Under such circumstances, the alleged danger of fake news may be mitigated or, perhaps, even reversed. While it is possible to study motivations for sharing misinformation using standard social scientific methods, self-report data are subject to social desirability biases because people may be reluctant to admit believing or sharing misinformation for any reason. It is also difficult to study motivations on a large scale in a fashion that is representative of social media users. Ideally, we would like to collaborate with social media platforms to capture at scale (a) the communication surrounding the sharing of mis- and disinformation by both information sharers and receivers (e.g., captions, comments, emojis, annotations, etc.), (b) people’s network relationship data, and (c) users’ demographic information to analyze the extent to which people believe misinformation as they share or receive it, as mediated by user characteristics and the sharer-receiver relationship. Such data could be appropriately anonymized to protect user identities. Understanding what misinformation is shared with whom and why would help to develop effective means to combat the spread of misinformation and would offer pathways to design and test interventions to help users to interpret misinformation correctly.

Why do older adults share more misinformation? We need social media data to find out
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Tackling the misinformation crisis requires a lifespan perspective, as older adults engage with (Grinberg et al., 2019) and share (Guess et al., 2019) more false political news on social media than any other age group. This is disturbing because older adults also vote at the highest rate (File, 2017). Similarly, misleading information about coronavirus is especially dangerous for older adults, who are at elevated risk of dying from COVID-19. Yet, without accurate data from social media companies, it is impossible to
know exactly what false stories older adults see or why they are more likely to share them. For example, given that we lose peripheral acquaintances with age (Wrzus et al., 2013), older adults likely have close relationships with the people they friend and follow. With fewer weak ties, older adults may assume that content in their newsfeeds is accurate and quickly click ‘share’ (Brashier & Schacter, 2020), rather than pausing to think (Fazio, 2020). With access to users’ ages, the composition of their social networks, time spent viewing posts, and engagement with posts, we could better understand how older users experience social media. Given that repetition makes claims seem more credible to both young (Fazio et al., 2015) and older (Brashier et al., 2018) adults, it is also essential to know not just what people see, but also how often they see it. The data exist to test which social and cognitive factors leave older users particularly vulnerable to misinformation, but scientists need access.

**Emotion, social media, and misinformation**

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Misinformation thrives on social media because of emotion. False, emotional content is clicked on, diffuses widely and rapidly through social networks, and is often believed, particularly when it fits with one’s political worldview. Yet, the degree to which emotion influences exposure to, engagement with, and belief in misinformation on social media remains shrouded by insufficient data from prominent platforms. What is needed is a more comprehensive picture of the emotional nature of misinformation in social media environments. Open data from social media platforms would help address critical, unanswered questions like how often do people encounter emotionally evocative misinformation? How are individuals exposed to emotional content that is false (e.g., social sharing/incidental exposure, selective exposure, algorithmic filtering)? To what degree does misinformation play on emotions stemming from ideological, political, racial, or religious biases? How frequently do people engage (e.g., click, share, comment) with emotional misinformation and to what effect? Does encountering emotional falsehoods drive exposure to more extreme or partisan political content, contribute to polarization, and promote acceptance of false beliefs and conspiracy theories? Open data from social media platforms would also facilitate understanding of how different emotions like anger and fear uniquely amplify misinformation and deepen misperceptions. These questions demonstrate the urgent need to better understand the emotional environments in which misinformation flourishes on social media. More transparency and open data practices from social media platforms would illuminate the processes and mechanisms through which emotional misinformation is encountered, spread, and believed.

**Richer datasets with improved validity**

**The case for studying obscure falsehoods**

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Research on misinformation often focuses on non-representative sets of claims. Sometimes this decision is theoretically motivated, as when a falsehood is uniquely harmful (e.g., the thoroughly debunked “link” between vaccines and autism, see Motta et al., 2018). More often the decision reflects practical concerns, as when researchers use fact checkers’ archives to identify which claims to study (e.g., Vosoughi et al., 2018), despite the significant selection bias introduced by focusing on high-diffusion cases (Goel et al., 2012). Emphasizing “successful” misinformation also overlooks important variants, as most political
falsehoods fail to find a large audience (Allen et al., 2020; Guess et al., 2019) and are shared primarily within small enclaves (Bail et al., 2019; Grinberg et al., 2019; Guess et al., 2020). Including both popular and unpopular misinformation in analyses would allow researchers to answer important questions. Do the two types of falsehoods differ in the extent to which they rely on viral or broadcast diffusion (i.e., their structural diffusion, see Goel et al., 2016)? Under what conditions will a falsehood go viral? Are there attributes that consistently characterize networks in which misinformation thrives? Are some types of events, policies, or technologies uniquely susceptible to misinformation campaigns? Answering these questions requires access to fine-grained temporal data about when content is shared, to aggregate characteristics about the populations that share them, and to characteristics about the networks in which the messages are shared. Importantly, though, it does not require access to individuals’ personal information or behavior.

### WhatsApp data that could help research on misinformation

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WhatsApp allegedly has been widely used to spread misinformation during elections, especially in Brazil and India (Tardaguila et al., 2018). Due to the private encrypted nature of the messages on WhatsApp, it is hard for researchers to track the dissemination of misinformation at scale and, ultimately, to investigate approaches able to mitigate the problem. Most of the research in this space has explored data shared in public groups (Resende et al., 2019). The research community would greatly benefit from WhatsApp disclosing the following information:

1. **Aggregated information about users and uses of the platform.** Number of users, number of groups, distribution of the size of those groups, distribution of frequency of messages sent to individual users and groups etc. This could be used for any researcher studying the platform and would allow anyone to better comprehend the use of the platform across countries.

2. **Viral and widely-spread content.** WhatsApp has been limiting the spread of content they consider to be viral. Viral content reaches a large number of users and may represent information that is of public interest. This content might be of interest not only for researchers studying misinformation, but also for journalism and fact checkers. While protecting privacy, WhatsApp could record the number of times a given content has been distributed and provide this information through an API. This information could be similar to that provided by Facebook through its Index API. This would allow researchers to measure the spread of a given content inside WhatsApp.

3. **A random sample of names of groups.** This would allow studies about how different groups use WhatsApp.

### Misinformed citizens across social media platforms: Unraveling the effects of misinformation on social capital and civic participation

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While research has long shown that informational use of news media has democratic value, there are few empirical findings on the civic consequences of exposure to misinformation across social media platforms. The proposed study develops a data infrastructure theory (DIT) grounded in communication infrastructure theory (CIT). CIT assumes that connections to community storytelling networks, such as local media, residents, and community organizations, foster civic engagement (Kim & Ball-Rokeach, 2006). In
comparison, DIT posits that data available across social media will activate communication infrastructure, which, in turn may stimulate democratic values such as public discussion, social capital (e.g., social trust), and civic participation. We conceive social media platforms as data infrastructure for creating, conveying, and communicating misinformation embedded in a sheer volume of data. This study proposes several testable hypotheses: (a) exposure to misinformation across social media platforms will be negatively associated with trust in social media and social trust or trust in others, (b) exposure to misinformation across social media platforms will be negatively associated with less participation in public discussion, and (c) this exposure will lead to less involvement in civic and political activities. The hypotheses will be tested using a unique dataset that would include user consumption and production habits, as well as content exposure, and time spent on several social media platforms coupled with other information like an online survey and in-depth interviews of users who have been exposed to misinformation across social media platforms. In particular, we would examine the accuracy of the self-reported habits and engagement, as well as investigate social capital and civic participation in relation to the social media data set. Implications of misinformation exposure on democracy, and civic engagement will be discussed. We will also explore the impacts of misinformation on different communities in relation to both demographic data, as well as construct-developed categories of users.

Disinformation campaigns

Data sharing protocols for content deletion and identity change activities to counter online manipulation

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Efforts to disseminate disinformation and manipulate public opinion show similarities with early propaganda and persuasion campaigns (Lazer et al. 2018; Starbird, 2019; Varol & Uluturk, 2018). However, social media platforms now empower online information operations with improved means of concealing provenance, targeting vulnerable individuals, and rapid evaluation/optimization of strategies and narratives. All social media platforms offering programmatic interfaces (APIs) are vulnerable — and exploited. Inauthentic, coordinated, malicious accounts, whether human-controlled or automated (Ferrara et al., 2016; Shao et al., 2018; Varol et al., 2017; Yang et al., 2019), domestic or state-sponsored (Zanettou et al., 2019), or anywhere in between, have been weaponized to influence public conversations by amplifying and flooding content. Bot and troll accounts can systematically delete old posts and change identities to evade detection. Platforms should provide APIs for accredited researchers to access data needed to study, detect, and combat manipulation, such as statistics on deletions, profile changes, and 3rd-party application activities without breaching privacy preferences set by the users. Another severe limitation is the lack of access to historical data. Temporal anomalies leave marks of coordinated activities and remain detectable years after an operation (Varol & Uluturk, 2019). Access to past content deletions and changes of identities should be facilitated. Consistent data sharing protocols are needed to make temporal data about API activity, removed content, abuse reports, and suspended accounts available for research. The protocols should sanction research according to ethical principles and privacy regulations rather than inconsistent and ever-changing terms of service. Greater transparency is crucial to move research efforts from observational analyses to science- and data-driven policies (Aral & Eckles, 2019) to protect our marketplaces of ideas and our democracies.
What release of Russian 2016 troll data could reveal
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Since the Trump presidency has reshaped the post-Cold War US-Russia-NATO relationship, history deserves an answer to the question: How likely is it that the 2016 Kremlin interventions made the presidential election close enough to be decided by 78,000 votes in three battleground states? In the second edition of *Cyberwar: How Russian Hackers and Trolls Helped Elect a President*, I argue that the changed media agenda created by press use of Russian-hacked Democratic content likely had a decisive effect on Democratic nominee Hillary Clinton’s standing in the polls and that the impact of the Russian trolls was negligible by comparison. Ironically, since much of the accessible Russian content is not directly election related, and the trolls used spam to artificially inflate their engagement and following metrics, it is likely that full transparency would further deflate estimates of the Russian social media saboteurs’ impact. To confirm that the platforms deserve to be let off the hook, they should do two things: (a) release all of the organic Russian content, as Twitter has done, to make it possible to determine how much was election-related and (b) reveal what they know about troll uptake in battleground states and across the nation by groups that the Kremlin-tied social media imposters were trying to demobilize (e.g., Black voters), mobilize (e.g., conservative Catholics and evangelical Protestants and those in military households), and shift (young Sanders’ supporters to Green party candidate Jill Stein).

Interventions

Evaluating interventions to fight misinformation
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Our primary interest is in exploring the impact of interventions to reduce the spread of false and misleading content online. Experimental investigation of interventions, rather than implementation based on intuitive appeal, is essential for effectively meeting the misinformation challenge (Pennycook & Rand, 2020). Thus, our ideal experiments would involve randomly assigning users of platforms such as Facebook and Twitter to various intervention versus control conditions. We would then measure the interventions’ impact on which pieces of content (conditional on exposure) were shared, reacted to, and commented on, which links (e.g., to news sites) were clicked, and how long users spent reading each piece of content. Ideally, we would also pair these on-platform metrics with follow-up surveys in which we could directly assess users’ beliefs and attitudes. Specific interventions we would want to investigate include labeling news headlines with fact-checking warnings (Clayton et al., 2019; Pennycook, Bear, et al., 2020), prompts that nudge users to consider accuracy before sharing (Fazio, 2020; Pennycook, Epstein, et al., 2020; Pennycook, McPhetres et al., in press), and attempts to increase digital literacy (which likely also prime accuracy) (Guess et al., 2020). Finally, we would also be interested in assessing the impact of incorporating layperson (user) accuracy ratings, either of news sources (Epstein et al, 2020; Pennycook & Rand, 2019) or individual pieces of content (Allen, Arechar, et al. 2020), into social media ranking algorithms. Such investigations would provide clear, concrete evidence about which approaches are most effective (and which may actually be counterproductive). Without such evidence, it is impossible for the public to have faith in social media platforms’ efforts to curb misinformation.
Social media platforms, including Facebook, have entered into agreements with third parties to provide fact-checks of content circulating on their platforms. Despite having partners around the world (Goldshlager, 2020), misinformation continues (Robertson, 2020). Fact-checking partners don’t know how well their efforts perform at reducing the spread of misinformation (Lu, 2019). Our dream research, consequently, centers around the transparency and accountability of social media efforts to address misinformation. We need an API endpoint that shows the specific actions platforms take once a message is identified as containing misinformation, including removal, warning labels, and downranking. When considering downranking or shadow banning, even more unknowns exist. Who still sees downranked content? How does that vary across demographics and psychographics? How do mitigation tactics affect the way audiences respond (liking, sharing, commenting, etc.)? Researchers need visibility into these actions to assess how political ideology, media use, and media literacy interact with the steps platforms are taking to correct misinformation. Furthermore, content on social media is narrowly targeted to specific audiences. Both political and commercial ads are targeted to users based on their pre-existing attitudes, beliefs, and fears (Borden King, 2020; Young & McGregor, 2020). While Facebook and Twitter have robust APIs, there is no way for researchers to identify ads in real-time. We also desire the ability to assess the damage targeted influence has on platforms and believe that researchers and platforms can work together to understand these consequences and ultimately build better systems.

1. Where and with whom does viral mis/disinformation originate? Determining the origin of a misleading story is currently next-to-impossible. With cross-platform data access, we could identify the first time a conspiratorial YouTube video or debunked political claim is shared on social media. Current research suggests that disinformation often comes from fringe networks and spreads through mainstream social media (Freelon et al., 2020), but we don’t know for sure, and we don’t know who creates and disseminates much of it. Determining where disinformation originates, and which platforms are most hospitable to its spread is the first step in decreasing its amplification and reach.

2. Which mis/disinformation correction strategies work best with which audiences or demographics? Current scholarship offers mixed findings and scant data on the effectiveness of oft-proposed solutions to mis/disinformation like fact-checking (e.g., Ecker et al., 2020; Lyons et al., 2020). With increased access and user consent, researchers could observe things such as organic fact-checking—how people react when a friend or group member points out incorrect information they have shared—and track whether corrections are equally effective across demographics, issues, and sources. This would allow us to create robust and effective intervention strategies with minimal unforeseen negative effects.

3. Which platform algorithms play the biggest role in spreading—or curbing—mis/disinformation? Critics claim that platform algorithms like Facebook’s news feed amplify harmful content, which we could test empirically. Does YouTube send people down a rabbit hole of radicalization? What role does Facebook’s Ad Auction play in driving mis/disinformation? Does TikTok use its algorithm to suppress or amplify...
demographics or viewpoints? This baseline knowledge is needed to assess, plan, and implement technical interventions, which are currently shrouded in obscurity. Providing scholars with the data to answer these questions is vital to understanding the cross- and multi-platform nature of—and solutions to—mis- and disinformation.

Why data sharing is important

Dream research and the ownership of cultural artefacts: The need to reclaim the information ecology
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The information ecology produced by social media platforms and the data they collect is part of our cultural heritage. These data represent “libraries” of the present and the future, and they should be considered cultural artefacts that, like their physical counterparts, ought to be “owned” by the people who produced them—which is all of us. We must reclaim the information ecology for the people who created it. This is crucial for independent research in the public interest: to conduct such “dream research,” researchers must not be supplicants to social-media companies but should go straight to the users, recruiting people as “citizen scientists” and knowledge-co-creators. This can be achieved via dedicated research platforms and browser plug-ins, mobile applications, and other digital data collection tools that allow researchers access to people’s online activity subject to strict confidentiality and anonymity constraints. These data could constitute a common cultural good, permitting vital research without involvement or control by corporate interests. Some of the questions we could then address include examinations of (a) how malicious disinformation (e.g., concerning COVID-19) affects subsequent content engagement, and how this is shaped by countermeasures already in place or being designed by empirical research; (b) people’s motives to share information, in particular intentional sharing of information that is known to be false; (c) drivers of polarization and de-polarization; and (d) ways in which a common ground for evidence and rules of arguments can be re-established.

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