

## ARTICLE

# Parler Games: A Narrative Framework Analysis of Parler Conspiracy Theories and the January 6th Insurrection

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<https://doi.org/10.22148/001c.137088>

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Journal of Cultural Analytics

Vol. 10, Issue 3, 2025

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Parler, a prominent right-leaning “echo platform,” became a forum in late 2020 for Trump supporters convinced the 2020 election was fraudulent as they abandoned or were banned from Twitter. This study suggests that a narrative analytical approach to the discussions on Parler in the period from the 2020 presidential election up to the violence at the Capitol on January 6th, 2021 can provide some insight into the relationship between storytelling and real world action. We deploy a computational pipeline combining natural language processing and network analysis to uncover the underlying narrative framework, based on an actant-interaction model. We use a topic modeling approach to further reduce the complexity of the narrative framework; various community detection methods afford a macroscopic view onto the discussions, allowing one to both trace the development of narratives and subnarratives over time, and to explore at various levels of granularity the make-up of narrative subgraphs. The main narrative framework of Parler is redolent of conspiracy theory, and portrays a profound threat to America and her patriots from deep state actors, “globalists,” and Democrats. This threat necessitates a response. Beyond expressing anger, people posting to the site developed strategies for fighting back. Analyzing shifts and connections in conversations reveals an emergent real-world conspiracy to take violent action on January 6th, demonstrating how online conspiracy theorizing fostered an emergent real-world conspiracy.

“Find them and hang them all traitorous bastards fuck all tyrants” – posted on Parler, January 6, 2021

“Good show today! It is looking like the protesters were let in. Many were Antifa/BLM.” – posted on Parler, January 7, 2021

## Introduction

On the morning of January 6th, 2021, as Congress began their session to certify the votes from the November 2020 election, Donald Trump gave a speech at the Ellipse in Washington, D.C. to thousands of people attending the “Save America” rally, urging the assembled crowd to “walk down Pennsylvania Avenue” to the Capitol in a bid to halt the certification process (AP News). Although the march and the subsequent violent incursion into the Capitol caught many observers by surprise, the march was not much of a surprise to organizers, since it had been part of their planning since

late December 2020 (Broadwater). Insurrectionists, who were among the organizers, had also begun discussions on social media platforms as far back as November 2020 of a rally, protest, and possible violent action against the certification process (VanDyke; Davies). Parler was among the most prominent social media forums where these discussions took place (Munn).

In the run-up to the 2020 election, right-leaning platforms such as Parler experienced substantial growth. Parler quickly became an “echo platform” populated largely by Trump supporters and advocates of the #stopthesteal movement (Cinelli, De Francisci Morales, et al.; Munn; Matthews et al.). Beyond simply expressing anger and negotiating a narrative of how the election had been “stolen,” contributors to the “parleys” (conversations on Parler) veered toward developing ideas about how best to respond to the threat to the Trump presidency and, in their minds, democracy. The amplification of specific discussion topics on the platform led to a convergence over the course of our study period on an underlying narrative framework that in turn acted as a feedback mechanism, structuring and guiding future conversations (Peck).<sup>1</sup> The discussions were not about whether the election had been stolen but rather how to beat back this profound threat and restore Trump to office (Zannettou et al.).

Although the conversations on Parler might simply have been “venting” (Rösner and Krämer), the subsequent violent actions of insurrectionists and their clear engagement with the platform suggest that their discussions carried with them the emerging formulation of a threat narrative that supported subsequent real-world actions (Munn). In threat narratives, an inside group perceives itself as confronted with a threat (or series of threats), often existential in scale, requiring a strategy for fighting back (Chavez; Loveland and Popescu; Wolfendale; Ciovacco). Stories such as anecdotes and personal experience stories, as well as partial stories, observations and commentary on those stories offer an opportunity to explore a range of strategies for dealing with a particular threat and, as the stories circulate across social networks of close, ideologically homogeneous groups, a consensus forms concerning the appropriate strategy—and a hoped-for outcome—for dealing with these threats (Tangherlini, “Who Ya Gonna Call?”; Tangherlini, “Toward a Generative Model”; Swidler). Computationally, the discussions can be modeled as a narrative framework graph, consisting of actants (nodes) and their relationships (edges). During storytelling, network paths are activated, new actants added, relationships emphasized, sides ascribed or inferred, and threats, strategies and possible outcomes solidified (Holur, Wang, et al.; Holur, Chong, et al.). Consequently, the underlying narrative framework

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<sup>1</sup> This phenomenon of a quickly emergent and stabilizing narrative framework that undergirds conversations on social media forums has also been observed in other contexts including vaccination hesitancy, the PizzaGate and QAnon conspiracy theories, COVID-19 conspiracy theorizing, and political discussions about highly polarized issues such as gun control and abortion (Tangherlini, Roychowdhury, et al.; Tangherlini, Shahsavari, et al.; Shahsavari et al.; Holur, Wang, et al.; Zhao et al.; Chong et al 2021).

encodes the cultural ideology of the group engaged in this process, guiding belief and, in some cases, real world action. In our following study of Parler, we develop a computational pipeline incorporating natural language processing, large language models and network analysis to uncover this underlying narrative framework (Bearman and Stovel; Sadler, “Narrative and Interpretation”; Tangherlini, Shahsavari, et al.; Sadler, *Fragmented Narrative*). This approach allows us to identify the discursive contours of an emergent conspiracy to counteract the perceived threats of the underlying conspiracy theory that motivates many posts to the site.

## Prior Work

The January 6th insurrection has been the subject of far-ranging academic and journalistic investigations (Bakshy et al.).<sup>2</sup> These studies align with considerable research on the emergence of extreme political viewpoints on social media (Tucker et al.; Aldera et al.; Rajendran et al.; Torregrosa et al.), the rise of echo-chambers (Cinelli, De Francisci Morales, et al.; McKernan et al.), the emergence of echo-platforms (Cinelli, Etta, et al.), the concept of conspiracy theory bricolage for people attempting to make sense of complex events (Greve et al.), and polarization, particularly in the political sphere (Adamic and Glance). Although Parler was a relative late comer to the realm of highly politicized social media (Luceri et al.), other forums, including the “chans”, were major loci for the emergence of conspiracy theories such as QAnon. On these platforms, which advertised themselves as supporting the right to freedom of expression, general rules regarding social interaction were abandoned in favor of an “anything goes” mentality (Baele et al.; Tuters; Colley and Moore; Israeli and Tsur).

Understanding social media posts at internet scale, the discursive context in which they are embedded, and their aggregate content, as well as the underlying role that this aggregate content has in shaping future conversations, has drawn considerable attention (Page et al.; Ouyang and McKeown; Li and Bamman). Several of these studies point to the collaborative nature of story and narrative creation on social media (Kim and Monroy-Hernandez; Dawson and Mäkelä). Very large-scale work on Twitter has had considerable success at extracting n-grams related to specific narratives from that platform (Alshaabi et al.; Dodds et al.). Zhao et al. present an approach to narrative discovery that aligns well with ours, although in their example they focus on COVID-19 and the 2017 French presidential election (Zhao et al.). Similar work on identifying narrative fragments and aggregating them into narrative frameworks have confirmed the usefulness of this

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<sup>2</sup> An excellent journalistic overview of the January 6 insurrection can be found in the *New York Times* “Capitol Riot Investigations” collection and the *Washington Post*, “The Jan. 6 Insurrection” collection. *The Report of the Select Committee to Investigate the January 6th Attack on the United States Capitol* provides considerable investigative insight into the broad events leading up to and the progression of the events of January 6 (2023). The anthology edited by Jeppesen et al. (2022) provides a series of essays that offer critical perspectives on multiple aspects of the insurrection, its supporters, and the diverse roles that social media played in the event.

approach in the context of political speech (Jing and Ahn; Abello et al.). Several refinements proposed by Zhao et al. show considerable promise for reducing the noise in the narrative framework graphs and understanding how these frameworks change over time (Zhao et al.). Their application of change point detection as a means for tracking changes in the underlying narrative frameworks helps identify those moments where the discursive arena experiences a potential inflection point (Zhao et al.; He et al.). We implement a simpler method that relies on changes in the daily ranked list of aggregated “supernodes”, with change points aligning with significant external events.

In a more qualitative, ethnographically anchored study, Dalsheim and Starret explore the carnivalesque aspects of January 6th, situating their observations in the context of the conflicting and overlapping narratives of modernity, thus providing thick descriptive context for the insurrection (Dalsheim and Starrett; Geertz). They note that the driving narrative of the insurrectionists was one that aimed “to protect a White vision of America against what many protestors saw as their country being stolen from its rightful owners” (Dalsheim and Starrett 9). Interestingly, their ethnographic observations also highlight the strong undercurrent of Christian rhetoric that informed the rally, an orientation that also plays a considerable role in the Parler discussions and adds additional evidence of the rise of “Christian nationalism” in the United States (Rowley; Norgaard and Walbert; Whitehead and Perry). Our work helps fill in the backstory of many of these events while also providing support for the observation that the rally was part of a “story war,” with conflicting narratives vying for space in the discursive arena (Dalsheim and Starrett 10).

## **Data**

Prior to going offline, much of Parler’s data was downloaded and a dump of this data was made publicly available (Greenberg; Aliapoulios et al., “A Large Open Dataset”). We downloaded ~183M posts but did not download the metadata from the ~3.25M user accounts (Aliapoulios et al., *An Early Look*). In our subsequent processing, we deleted all personal identifying information and geotags, as we were neither interested in individual posters nor their location.<sup>3</sup> We removed urls, emojis, other non-ascii characters, and images/videos from the post data; we replaced non-standard quotation marks with their ASCII variants and newlines with a singular whitespace to prevent downstream errors. We iteratively tuned the cleaning to remove excessive punctuation, junk characters, whitespaces, and other posts that were automatically generated by the platform, or that were repetitive; these latter posts were often generic exhortations. Finally, we deleted one-word posts as

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<sup>3</sup> We created a randomized, anonymized index of the accounts so that we could keep track of posts and reposts by individual accounts without any method for reattaching the user accounts to that index.

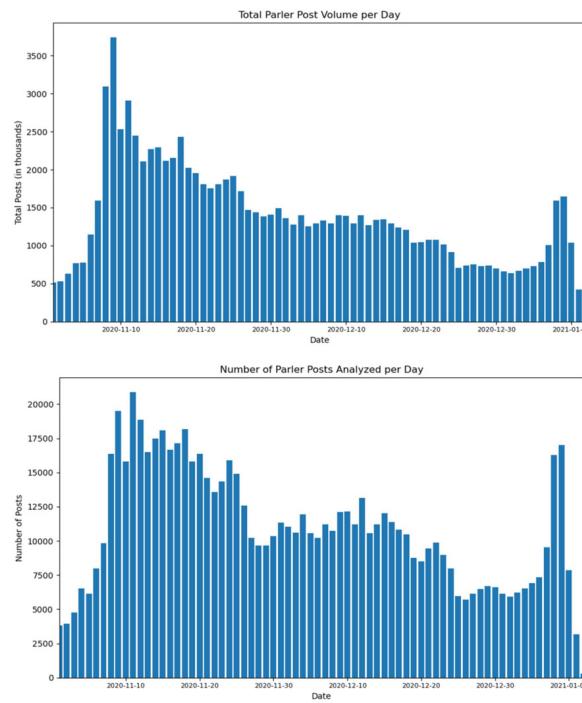


Figure 1. Top: Volume of posts per day on Parler for our study period (Rondeaux et al. 2022). Bottom: Posts per day subject to analysis

well as multiple copies of the same post, retaining a single example based on the post’s first appearance. Each post was identified by a unique index along with a date and timestamp, allowing for drilldown to the underlying posts, thereby allowing us to operationalize a macroscopic approach supporting many scales of analysis, from the microscale of close reading, through mesoscales of daily graph analysis or subgraph investigation, to the macroscale of the entire narrative graph (Tangherlini, “The Folklore Macroscope”). Finally, we only retained posts that allowed us to extract entities, which we labeled “usable posts.”

Because we were interested in the daily change of the narrative frameworks, we binned the posts by day. The number of posts per day on Parler varied greatly over the course of our study period, with the highest volume occurring on November 9, 2020 (3.74M posts) and the lowest volume occurring during the earliest days of November as well as the last day Parler was online (419k), with an average of ~1.295M posts per day (Fig. 1). Unfortunately, this volume was significantly greater than what our computing resources could handle.<sup>4</sup> Consequently, we randomly sampled 10% of usable posts in each daily bin, with 2,000 usable posts per day as a minimum threshold; we also added all the usable posts from January 11 to the final day’s graph. This process created 72 bins consisting of 783,021 posts, with an average of 10,876 posts per day (range of 3176 to 20,890).

<sup>4</sup> Extraction of the daily narrative graph with a minimum of 2,000 and average of 10,876 usable posts took ~120 minutes on the UC Berkeley Savio HPC cluster. Total cluster time was ~147 hours.

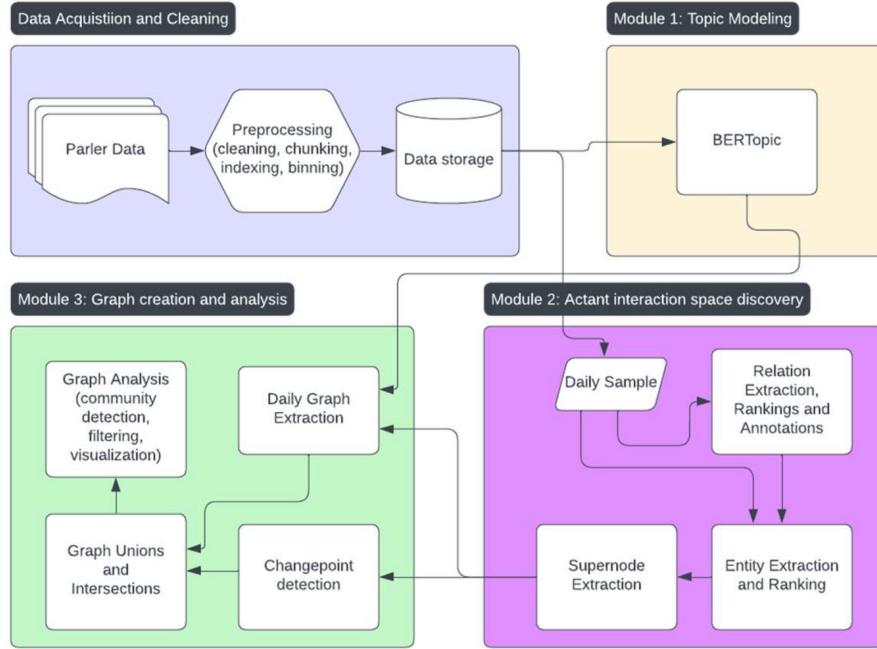


Figure 2. An overview of the computational pipeline for extracting and generating the narrative framework graphs.

## Methods

For the methods deployed here, we modify earlier work on narrative extraction (Tangherlini, Roychowdhury, et al.) ([Fig 2](#)).

After cleaning, we push the data to the topic modeling module, here BERTopic (Grootendorst). BERT embeddings allow us to capture a semantic range that is often occluded in bag of words approaches. Although the standard cTFIDF topic labeling that BERTopic provides as a default is useful, we generate a second set of labels that applies Maximum Marginal Relevance, thereby maximizing the diversity of in-topic keywords. Because each of the posts is retained in the topic clusters, and because each post has a timestamp, we can calculate the change in the topic makeup over time. In our experiments, we found that including the global representation of the topics along with an evolutionary model aimed at discovering change allowed for a less spiky view of the shift in the focus of topic documents over time.

A second module focuses on discovering the underlying actant interaction space, where actants are identified through a combination of semantic role labeling (SRL) and named entity recognition (NER) (Tangherlini, Roychowdhury, et al.; Shahsavari et al.). The module also generates a ranked list of “supernodes” based on a concatenation of the context-specific appearances of actants so that references to “Mike Pence”, “Pence”, and “Penny”, for example, are all concatenated in the “Mike Pence” supernode, while context specific references are preserved as individual subnodes. Relationships between actants are encoded using verb phrases, while hyperedges are decomposed into a series of triples, so that a complex post

such as, “Why are our leaders constantly blaming restaurants, bars and gyms as the biggest spreaders of COVID19 when the science says otherwise?”, can be decomposed into the following series of triples: {leaders} {blaming} {restaurants}, {leaders} {blaming} {bars}, {leaders} {blaming} {gyms}, {restaurants} {spread} {COVID19}, {bars} {spread} {COVID19}, {gyms} {spread} {COVID19}, {science} {says} {otherwise} (Tangherlini et al. “Mommy Blogs”). The resulting relationships (often verbs) are used as the edges in the graphs; when we construct the graphs, we add topic assignments as an edge feature. The final output of this module is a graph that encodes the subnodes and supernodes, as well as the edges describing interactant relationships, which can also be grouped according to the topic assignments discovered in the topic modeling step.

In the third module, we generate the narrative framework graphs and focus on two main aspects of the graphs: changes in the nodes and edges based on a binning of the graphs by date; and the identification of subgraphs that we label “narrative communities.” These sub-graphs describe one part of the much larger narrative framework and often consist of a particular sub-narrative, for example, the role of globalists in undermining election integrity.

We used the daily rankings of the supernodes (the concatenation of entities into a single entity) as a means for detecting change points in the overall narrative framework space. A change point was detected whenever the rankings of supernodes among the top fifteen for a particular day changed places by five or more positions. These changepoints were used to create bins for the subsequent aggregation of the narrative graphs, allowing a greater degree of granularity than if we had only worked with the entire graph. We also concatenated the daily graphs into a single union graph. Using the change point detection as a guide, we separated the daily graphs into bins and created additional versions of the graphs: a union graph and an intersection graph for each bin. The intersection graphs isolate those actants and relationships which are stable across the entire time frame of a bin. We also created a union graph of all the bins’ intersection graphs. During the analysis stage, various filters were applied to surface aspects of the graphs occluded by their density. We reduced density either by focusing on higher degree nodes or on certain topics; selecting topics related to “treason”, “fraud” and “Democrats,” for instance, reveals how these topics interact narratively within and across the narrative subgraphs.

## Results and Discussion

The results of our multi-stage NLP and graph analytic approach provide a clear mapping of the range of discussions on Parler and reveal how these discussions rest on a single narrative framework. The broad contours of this narrative framework propose that the results of the election were fraudulent, with the deception orchestrated by globalists, Democrats and a vast conspiracy of fundamentally corrupt deep state actors and motivated by self-

serving anti-Democratic impulses (the swamp), whose goals were to enrich themselves, undermine Christian values, erode the bulwarks of democracy and destroy a society built on law and order. As such, it is redolent of a comprehensive, totalizing conspiracy theory. A consensus developed that the best strategy to deal with this existential threat was to block the certification process “by any means necessary.” Thus, parallel to the thicket of posts that constructed, elaborated and confirmed the conspiracy theory of “Demonrats” working with globalists and the Chinese Communist Party to steal the election, were numerous posts planning a violent insurrection on Capitol Hill, using BLM/Antifa protests as a model, and using terms such as “peaceful protest” in a deliberately ironic manner.

In the following discussion, we reveal how certain sub-narrative frameworks are linked together to present a monologic world view where patriots and true Americans, characterized by their strong belief in a Christian God (signaled by various appeals to scripture), are threatened from multiple directions. We also show how certain narrative communities can, when considered in the broader narrative context, provide significant insight into how various signifiers, such as BLM or Antifa, are deployed within the discursive context as both justification for proposed actions and models for that action.

### ***Supernode Rankings and Changepoints***

The aggregate rankings of the super nodes provide a coarse yet informative view of the main actants in the Parler space. Not surprisingly, people including Trump, the Bidens (Joe and Hunter), Kamala Harris, and Mike Pence, all feature prominently, as do Stop the Steal advocates Scott Fitzgerald and Lin Wood, the globalist George Soros and the tech villain Bill Gates ([Fig 3](#)). God, Republicans, Democrats, China and the presidency round out the list of top actants. Further down the list, but still in high ranked positions, state actors such as Russia, and US states, including Georgia and Michigan, are joined by movements including the Proud Boys on the one hand, and BLM and Antifa on the other.

Although these entities are persistently present in the discussions, their relative importance shifts over time as new ideas are introduced into the conversations. Yet, the stability of the entities in the rankings lends support to the notion that the conversations on Parler were focused and consistent in their support of Trump from the start and the underlying consensus that the election was manipulated by multiple nefarious actors was a common point of departure.

We use changes in the rankings of super node actants to estimate change points in the conversation, which then inform the segmenting of the graphs into time-binned subgraphs ([Table 1](#)). In some cases, such as bin 8, the change point trails the event (Trump’s announcement of the January 6 rally), while in other cases the change point anticipates the event, such as bin 4 (the

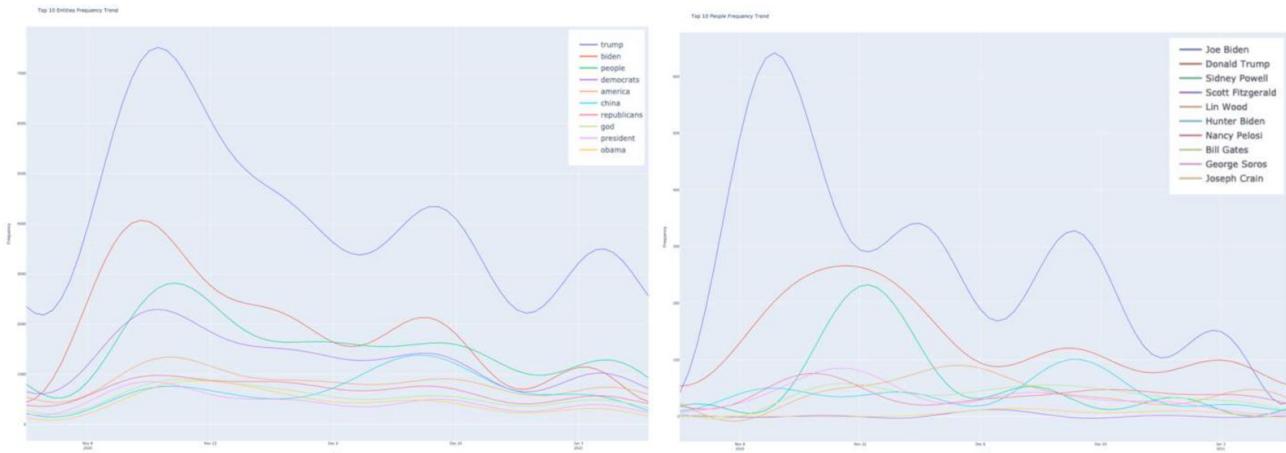


Figure 3. Left: top ten supernode *entities* by date. Right: top ten supernode *people* by date. The unusual appearance of the Christian nationalist, Joseph Crain, in the top ranked people is related to the enormous popularity of his poem “Peer Pressure Piety.”

Table 1. Change points in the Parler discussion calculated with two sets of parameters to estimate changes in the rankings of the top entities in the daily extractions.

| External Event   | Event range        | Automatic changepoint date (top 10 supernodes / 5 changes; in brackets top 15 entities / 5 changes) | BIN # |
|--|--------------------|---|-------|
| Pre-Election   | <b>11/1-11/3</b>   | 11/1 [11/1]   | 1     |
| Election to Immediate Post-Election Nov 4                      | <b>11/4-11/13</b>  | 11/4 [11/5]   | 2     |
| Million Maga March Nov 14                                      | <b>11/14-11/22</b> | 11/13 [11/12]   | 3     |
| Women for America First permit app Nov 24, Flynn pardon Nov 25 | <b>11/23-11/30</b> | 11/23 [11/22]   | 4     |
| No election fraud (Barr Dec 1)                                 | <b>12/1-12/11</b>  | 11/30 [11/30]   | 5     |
| Proud boys march Dec 12  | <b>12/12-12/18</b> | 12/15 [12/14]   | 6     |
| Trump announces Jan 6 rally (Dec 18)                           | <b>12/19-12/27</b> | 12/18 [12/18]   | 7     |
| Clark sends letter to Georgia Dec 28                           | <b>12/28-1/3</b>   | 12/29 [12/27]   | 8     |
| Capitol police report Jan 4                                    | <b>1/4 - 1/11</b>  | 1/4 [1/4]   | 9     |

The data ranges are aligned with external events as means of validation. Bold dates indicate the start of a bin.

permit application and pardon of Flynn). The final bin is an exception, as the final planning, coordination and the events of January 6 all fall within this bin.

## Topic Modeling

The topic modeling step provides an overview of the discussion space and, like the change points and entity rankings, is used to help further refine the narrative graph representations. To generate the topics, we pass the usable posts to BERTopic, and generate labels over the topics, thereby reducing the otherwise enormous relationship space that derives from the entity-

relationship extractions.<sup>5</sup> Although the topic space is diverse, certain trends are immediately apparent on inspection, and make evident the strong right-wing, pro Trump, Christian chauvinist, “MAGA” slant of the conversations, with the main topics being the “swamp”, the Democrats (here most clearly associated with Biden), and the integrity of the presidential election ([Table 2](#)).<sup>6</sup>

These topics provide better insight into the contents of the conversations than the simple ranking of entities: there are community building comments that emphasize areas of agreement between posters; endorsements of QAnon positions captured by, among other things, references to WWG1WGA; discussions of broad social problems; and critiques of and accolades for various social media platforms and media outlets. The largest topic, labeled “swamp” along with Pence, Biden and Giuliani (here referred to as Rudy), captures a major theme in many of the discussions: the election outcome, with Biden as victor, was a result of the corrupt machinations of the Washington DC political swamp. Pence, charged with certifying the vote, and Rudy Giuliani, Trump’s point man on challenges to the outcome, would be the most important players in overturning the results. The second topic captures suspicions of the FBI and the broader role of deep state actors in manipulating the election, while other highly represented topics present conversations related to the connection between the Democrats and long-running enemies of the American right wing, such as the Socialists and Communists, who are often represented in these conversations by the Chinese Communist Party. These conversations align with broader discussions of treason as well as those focused on prominent Democrats and their possible alliances with un-American or un-Godly groups or activities. Potentially fraudulent state election counts, such as those in Georgia and Michigan, emerge in the topics that include many documents, and are supported by smaller, more focused topics relating to fraud, corruption, election machines and legal challenges to the counts. Interestingly, discussions of the COVID-19 pandemic and criticism of federal mandates related to masking and vaccination are clearly represented among these topics, including discussions of Fauci and his role as a metonymic stand-in for concerns about state overreach and scientific fraud. Not surprisingly, given the Christian nationalist slant of these discussions, Islam and Catholicism are both seen as religious threats (Bond and Neville-Shepard; Rowley).

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<sup>5</sup> We limit the number of topics to 150 to prevent an overgeneration of fine-grained topics. Without a limitation on the number of topics, BERTopic finds 3,888 topics, when the smallest permissible cluster size is set to 15, and the Riemannian manifold for UMAP is set to 5 dimensions. Since the goal is not to generate a fine-grained topic model, but rather to classify edges to reduce graph density, we set a much smaller limit on the number of topics.

<sup>6</sup> We do not include the unassigned documents here (Topic “-1” in BERTopic), even though documents assigned to that topic represent a significant and complex aspect of Parler discussions—although we could have forced a topic assignment for each extraction, such an approach would have done little to make the topic clusters more informative. Instead, we consider the unassigned edges in the broader narrative graph analysis below.

Table 2. The top 15 topics, with labels and a highly representative document truncated to the first 150 characters, for the entire corpus.

| Topic | # docs | Label                                  | Sample post  |
|-------|--------|--|--|
| 0     | 66439  | pence, swamp, biden, rudy              | PLEASE Listen to the WARRIORS not the politicians This is the path for Trump to control the Presidency he rightfully won, as well as the Senate To we need to abandon voting on rigged machines and boycott all RINOs have faith!  |
| 1     | 35884  | fbi, flynn, soros, evidence            | I am very well aware of what I am saying. First, the Democrats had 4 years to set this up. Second, ask yourself why the Pelosi family, Schumer, and other Democrat politicians were financially vested in Dominion systems with millions of dollars.                       |
| 2     | 31990  | communist, dems, socialist, communists | That is why I surprised at people more than this Dem crook. People who voted for him should know how to avoid socialist and communist ideas only bring destruction to the country.   |
| 3     | 26370  | georgia, recount, ballots, governor    | Where are those Georgia Senators and establishment Republicans? Why are they not standing with the people of Georgia on the streets to Because they take their constituents for granted No more.   |
| 4     | 16323  | pelosi, nancy, kamala, candace         | Follow me as we get cops to investigate Stacy Abrams. she is at it again, sending 750k mail in ballots. They will steal This from Loeffler they are not stopped.   |
| 5     | 12217  | vaccine, covid, vaccines, covid19      | Say NO to the covid vaccine! 'COVID VACCINES Covid19 is the new name of the regular flu, which fabricated the world economic collapse and the new normal Every year, new flu vaccines come out to the market.  |
| 6     | 10653  | treason, traitors, traitor, cowards    | After almost eight months of rioting including seizing and burning of police precincts, attacking Federal buildings and officers, murdering officers, trying to seize the White House, etc etc Democratic politicians are finally joining conservatives and condemning it. |
| 8     | 8776   | fauci, clown, snowflake, trolls        | So, RR. Where did you go to law school and what makes you so smart? I think YOUR combined idiocy deserves little to no attention by anyone with intelligence WHY?  |
| 9     | 8447   | wallace, kyle, dorsey, matt            | Dan, I have been a follower of yours since before the Russian collusion Hoax. Your growth has been nothing shy of amazing. Your tenacity for the truth and what is right should be the hallmarks of every person who has a platform.                                       |
| 10    | 6774   | fb, twitter, facebook, censorship      | You might want to go back to Facebook and Twitter.   |
| 11    | 6739   | china, chinese, canada, ccp            | VERY DAMNING! BIDEN HARRIS WILL NOT FIGHT AGAINST CHINAS TOTALITARIAN RULE, EVEN IF THEY GET IN THE WHITE HOUSE, WHICH THEY WILL NOT! WE THE PEOPLE MUST SEND THE DEMOCRATS, CHINA AND ALL OTHER TOTALITARIAN LEADERS OF THE WORLD A CLEAR MESSAGE!                        |
| 12    | 6578   | fox, tucker, hannity, newsmax          | Glad to see you here! Leave Fox News and go to Newsmax. Fox News is dead to me; 'Would love to but no fox news in my house! They showed us what they are really all about but have to hold on to Tucker Hannity to have any viewers.                                       |
| 13    | 6497   | mask, masks, wear, mandates            | If you could see what is filtered just from the air you breathe without a mask, you would probably hold your breath. Our sinuses, cilia, and mucus were designed to protect us from particulates.  |
| 14    | 6434   | cnn, newsmax, news, magazine           | CNN, Corrupt News Network! Truth always comes out. News to CNN! 'CNN, FOX, MSNBC, CBS, ABC, NBC, etc are all entertainment news, and should be considered on the same level as the National Enquirer.  |
| 16    | 6345   | catholic, church, satan, bible         | Praying for his protection 1 Chronicles 162223 KJV 22 Saying, Touch not mine anointed, and do my prophets no harm. 23 Sing unto the Lord, all the earth; shew forth from day to day his salvation.   |

In this ranked list, we have deleted two topics: one consisting largely of welcome messages to new members (although automatic messages were cleaned from the corpus, cascades of welcome messages to new members often appeared in the context of other substantive parts of the post) and another consisting of holiday greetings (for Thanksgiving and Christmas).

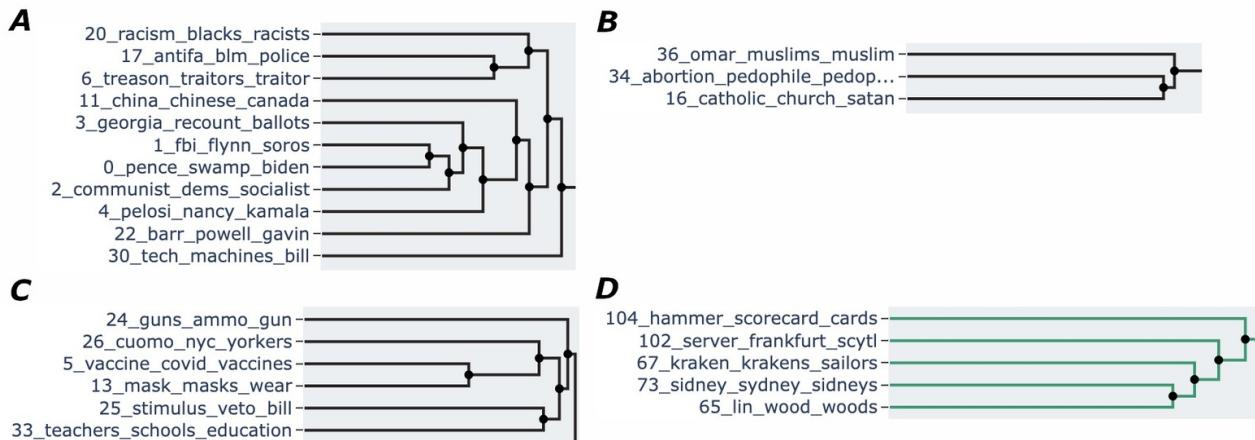


Figure 4. Closeups from a dendrogram representing topic relationships, with the structure derived from the cosine similarities of the centroids of the topic clusters. Clockwise from left top: (a) topics concerning Antifa/BLM, treason, deep state actors such as the FBI, globalists such as Soros, Democrats and communists, the world of tech, and prominent Democratic politicians; (b) topics related to far right objects of fear, including Muslims, Catholics, abortion rights and pedophilia; note the reference to Representative Ilhan Omar (D-MN); (c) topics related to vaccination, COVID, state overreach and the schools; (d) topics related to Trump's squad of lawyers, and the side narrative about the alleged raid of Scytl, a German tech company, to seize servers related to election fraud.

While these topics, taken individually, offer a relatively fine-grained overview of the discussions, exploring their grouping based on their proximity in the topic space can provide clues about the relationships between various actants and discussions (Fig 4).

On a large branch of the dendrogram covering forty-five topics including the largest topic groupings, we discover a branch that has an aggregate label of “vaccine, dominion, swamp, pence, pelosi”, an unusually apt summary of the discussions on the platform. At a more granular level, we find specific inflections of these broader topic spaces. For example, there are accusations of treasonous behavior aimed at deep state actors and politicians, revelations that certain religious and political groups are involved in horrific practices such as pedophilia, that the COVID vaccinations and mask mandates were related to state overreach and faulty or fraudulent science, and that globalists and the tech industry pose an ongoing threat to Democracy.

A dynamic model that considers shifts in the topic space generated by daily posts provides additional insight into the variability in the discussion space over time (cf. Norton et al.). In a highly variable topic space, one would expect frequent changes in the top ranked topics, as well as considerable change in the top ranked words per topic. This is not the case for Parler, with a stable set of top-ranked topics and a similarly stable set of top ranked words (Fig 5 and Table 3).

Of note are the changes in the labels associated with the topics, as they indicate shifts in how the overall topic space is inflected at various points in time. For example, the main topic about “the swamp” shifts more toward discussions of individual senators and a fear of “Rino” insiders who may

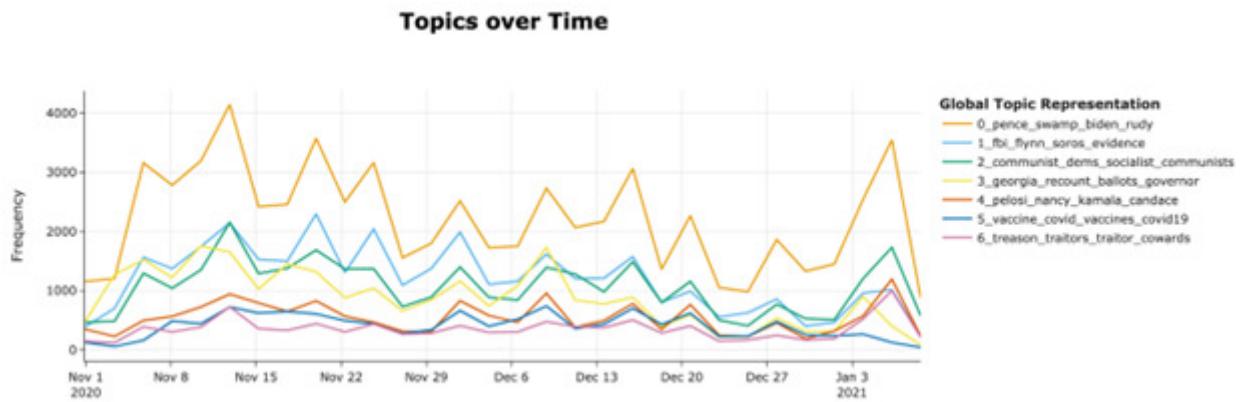


Figure 5. A graph of the top seven topics for the study period, showing little change in the topic space. This lack of change suggests a degree of consistency in the discussions, where posters refrain from veering off message.

not support the overall attempts to reverse the election, before breaking on January 6 to mentions of treason, Pence and impeachment. Other similar shifts in the overall topic space can be traced through these dynamic shifts in the labels. The main goal of our use of the topic model is not, however, to provide an abstract summary of the Parler discussions, but rather to provide a mechanism for sorting the contexts in which various entities in the overall narrative graphs interact.

### ***Narrative Framework Graphs***

The main output of our pipeline is a series of graphs that capture the narrative framework. The comprehensive graph for the entire study period presents as a “hairball” (Fig 6). To disentangle it, we apply a modularity-based community detection algorithm coupled to a simple labeling step to provide overviews of the sub-narratives and their interconnections (Utriainen and Morris). In these clustered graphs, each edge is assigned a topic. We first consider the narrative frameworks in their entirety, including a discussion of the narrative space implied by smaller subgraphs that capture fundamentally stable aspects of the story space. We conclude with more focused discussions of the narrative graphs for the bins discovered by our simple change point method. For the sake of brevity, we do not consider all the graphs and subgraphs but rather focus on those that help illustrate the overall narrative space. The graphs show that people posting on the platform see their way of life threatened from numerous directions, recapitulating in their storytelling essentially all aspects of Barkun’s model of threat in conspiracy theory, where threat can come from the outside (foreign powers), from the inside (“Rinos” and other “treasonous” actors), from above (globalists and the super-rich), and from below (immigrants, BLM and Antifa) (Barkun). The graphs also reveal how the strategy for dealing with these threats leads to an organized effort—in essence, a conspiracy—for a violent protest on Capitol Hill that, in the words of one poster, will take the “Peaceful Protesting of our opposing side and just raise the bar, a few notches!” (November 17).

Table 3. The labels on the top seven topics for the period of study, at regular date intervals. Changes in the labels are bolded. It is worth noting that on January 8, two days after he refused the call of the insurrectionists to declare Trump the winner, the largest topic includes Pence in the context of impeachment.

| Date   | Topic 0                                       | Topic 1                                      | Topic 2   | Topic 3   | Topic 4                                    | Topic 5                                   | Topic 6  |
|--------|---|--|---|---|--|---|--|
| Oct 31 | rally, biden, maga, swamp, rallies            | fbi, soros, flynn, investigate, jail         | communists, dems, democrats, communist, socialist | polls, pennsylvania, pa, florida, ballots       | kamala, pelosi, nancy, harris, her         | deaths, covid, cdc, virus, covid19        | rioters, riots, traitor, sedition, riot          |
| Nov 03 | biden, jehovahnissi, votes, patriots, victory | voter, cheaters, fraud, corruption, soros    | dems, republicans, democrats, democrat, gop       | arizona, michigan, ballots, recount, ballot     | pelosi, nancy, pelosis, kamala, talentless | covid, cdc, linkedin, virus, covid19      | protesting, treason, protests, protest, 1605     |
| Nov 05 | biden, gore, patriots, romney, graham         | cheat, corruption, fraud, fbi, flynn         | gop, dems, communist, democrats, socialist        | ballots, recount, ballot, pennsylvania, counted | pelosi, nancy, kamala, feinstein, her      | covid, virus, pandemic, flu, covid19      | treason, riots, traitors, traitor, protest       |
| Nov 08 | biden, gore, romney, elect, coup              | voter, fraud, soros, cheaters, fbi           | unity, dems, democrats, communist, communists     | recount, pa, ballot, ballots, carolina          | pelosi, nancy, feinstein, kamala, her      | vaccine, pfizer, covid, vaccines, covid19 | treason, riot, traitors, riots, peaceful         |
| Nov 10 | elect, biden, cruz, maga, gore                | letter, dominion, audit, mail, voter         | dems, democrats, communist, communists, socialist | recount, georgia, ballots, governor, ballot     | pelosi, nancy, kamala, candace, pelosis    | vaccine, covid, flu, covid19, vaccines    | treason, traitors, protest, riots, rioters       |
| Nov 12 | biden, maga, rudy, mccain, zuckerberg         | dominion, soros, msm, audit, letter          | unity, communist, dems, nazis, socialist          | recount, georgia, ballots, governor, ballot     | pelosi, nancy, kamala, stacey, candace     | vaccine, covid, covid19, vaccines, deaths | cowards, peaceful, traitors, traitor, protesters |
| Nov 15 | obama, biden, swamp, cruz, giuliani           | msm, fbi, soros, corruption, fraud           | socialism, communist, socialist, dems, democrats  | recount, michigan, ga, ballots, ballot          | pelosi, nancy, kamala, candace, pelosis    | vaccine, covid, vaccines, flu, deaths     | cowards, treason, traitors, traitor, protest     |
| Nov 17 | rudy, swamp, obama, biden, giuliani           | dominion, soros, corruption, fraud, evidence | communist, dems, socialist, fascist, communists   | recount, michigan, governor, county, ballots    | pelosi, nancy, jenna, kamala, candace      | vaccine, covid, flu, deaths, vaccines     | treason, cowards, traitor, traitors, coward      |
| Nov 19 | romney, swamp, rudy, biden, giuliani          | dominion, fbi, soros, evidence, msm          | communist, dems, socialist, democrats, nazi       | georgia, recount, governor, ballots, rigged     | pelosi, kamala, nancy, jenna, candace      | vaccine, covid, flu, covid19, vaccines    | treason, cowards, traitors, protest, traitor     |
| Nov 22 | swamp, christie, biden, maga, rudy            | soros, fbi, evidence, flynn, conspiracy      | communist, dems, nazis, socialist, constitution   | recount, ga, runoff, ballots, rigged            | pelosi, nancy, jenna, stacey, kamala       | vaccine, covid, covid19, vaccines, cdc    | treason, traitors, traitor, sedition, rioters    |
| Nov 24 | swamp, obama, biden, schiff, coup             | flynn, pardon, pardoned, evidence, snowden   | communism, communist, socialist, dems, commie     | pa, ballots, ga, recount, rigged                | jenna, pelosi, kamala, her, nancy          | vaccine, covid, deaths, covid19, vaccines | treason, traitor, traitors, treasonous, coward   |
| Nov 26 | brennan, patriots, biden, maga, mccain        | fbi, flynn, cia, pardon, soros               | socialism, communist, dems, socialist, communists | pa, pennsylvania, georgia, ballots, recount     | candace, jenna, pelosi, kamala, her        | covid, vaccine, flu, deaths, vaccines     | treason, traitors, traitor, treasonous, protest  |

|        |  |   |  |   |  |  |  |
|--------|--|---|--|---|--|--|--|
| Nov 29 | swamp, biden, rudy, maga, coup               | fbi, flynn, fraud, evidence, corruption       | gop, dems, socialist, commie, republic                       | az, legislature, ballots, recount, runoff           | kamala, gina, pelosi, nancy, candace     | covid, vaccines, deaths, covid19, cdc          | treason, traitors, traitor, cowards, coward      |
| Dec 01 | swamp, rudy, biden, cruz, giuliani           | dominion, evidence, fbi, flynn, pardon        | civil, communist, dems, communists, revolution               | georgia, michigan, runoff, ballots, rigged          | pelosi, nancy, kamala, stacey, gina      | vaccine, covid, flu, vaccines, covid19         | treason, traitors, traitor, treasonous, protest  |
| Dec 04 | rudy, giuliani, biden, rally, patriot        | dominion, flynn, fbi, judge, audit            | socialism, communism, communist, communists, dems            | georgia, ballots, governor, ballot, vote            | pelosi, nancy, kamala, melania, michelle | vaccine, covid, vaccines, flu, covid19         | treason, traitors, traitor, coward, protest      |
| Dec 06 | kemp, rudy, cruz, swamp, scotus              | flynn, judge, pardon, fbi, judges             | republicans, communist, commie, communists, constitution     | ga, governor, lawsuit, florida, electors            | pelosi, nancy, her, kamala, melania      | vaccine, covid, vaccines, covid19, vaccination | treason, traitors, traitor, treasonous, coward   |
| Dec 08 | swalwell, scotus, swamp, cruz, biden         | fbi, flynn, soros, judge, cia                 | civil, communist, democrats, commie, communists              | texas, lawsuit, michigan, pennsylvania, states      | pelosi, nancy, kamala, her, feinstein    | vaccine, vaccines, flu, covid, covid19         | treason, traitor, traitors, treasonous, sedition |
| Dec 11 | scotus, swamp, harris, biden, coup           | flynn, fbi, evidence, forensic, judge         | secession, insurrection, constitution, socialism, communists | electors, lawsuit, court, governor, states          | pelosi, jill, kamala, nancy, candace     | vaccine, vaccines, covid, hiv, covid19         | traitors, cowards, treason, traitor, protest     |
| Dec 13 | swamp, biden, mcconnell, pence, electoral    | assange, pardon, snowden, audit, flynn        | communist, insurrection, fascism, gop, dems                  | electors, michigan, electoral, georgia, ballots     | jill, doctor, pelosi, kamala, nancy      | vaccine, vaccines, covid, covid19, vaccinated  | traitors, treason, traitor, cowards, treasonous  |
| Dec 15 | mitch, mcconnell, swamp, zuckerberg, senator | assange, pardon, soros, fbi, snowden          | insurrection, dems, republic, lincoln, secession             | georgia, governor, electors, electoral, ballots     | jill, pelosi, nancy, doctorate, kamala   | vaccine, covid, vaccines, flu, deaths          | treason, traitors, traitor, cowards, treasonous  |
| Dec 18 | swamp, patriot, biden, romney, coup          | flynn, soros, fbi, putin, hacking             | martial, insurrection, communist, fascism, commie            | georgia, governor, florida, electors, thegovernment | pelosi, nancy, jill, kamala, stacey      | vaccine, covid, vaccines, flu, deaths          | treason, traitors, traitor, riots, treasonous    |
| Dec 20 | mitch, swamp, mcconnell, pence, rand         | corruption, fbi, Assange, pardons, flynn      | insurrection, communist, dems, communists, socialist         | georgia, electors, rigged, florida, electoral       | pelosi, nancy, her, pelosis, kamala      | vaccine, covid, vaccines, flu, covid19         | treason, traitors, traitor, cowards, coward      |
| Dec 23 | pence, swamp, mcconnell, senators, biden     | pardoned, pardons, fbi, snowden, Assange      | insurrection, communists, dems, commies, dresden             | arizona, michigan, electors, governor, ga           | pelosi, nancy, melania, kamala, schumer  | vaccine, flu, covid19, vaccines, deaths        | treason, traitors, traitor, treasonous, cowards  |
| Dec 25 | pence, mcconnell, schiff, swamp, senators    | fbi, cerberus, machines, supercomputer, execs | communist, socialist, commie, commies, slaves                | florida, texas, mayor, ga, lawmaker                 | pelosi, nancy, melania, lady, kamala     | vaccine, covid, vaccines, nurses, flu          | treason, traitor, traitors, treasonists, protest |
| Dec    | pence, hawley,                               | fbi, judges,                                  | communist, gop,  | ga, governor, ballots,                              | abrams, pelosi,                          | vaccine, covid, flu,                           | treason, traitor,                                |

|        |  |  |  |   |  |  |  |
|--------|--|--|--|---|--|--|--|
| 27     | mcconnell, swamp, senators               | evidence, corruption, soros                | communists, dems, democrats                          | electors, oregon                                | stacey, nancy, sister                        | covid19, vaccines                                      | traitors, treasonous, protest                    |
| Dec 30 | pence, hawley, senator, mcconnell, swamp | fbi, evidence, judges, soros, corruption   | communist, socialist, constitution, democrats, dems  | ballots, ga, pulitzer, governor, runoffs        | abrams, pelosi, nancy, stacy, stacey         | vaccine, covid, vaccines, hospitals, covid19           | treason, traitors, traitor, cowards, hangings    |
| Jan 01 | pence, romney, cruz, senator, mcconnell  | dominion, evidence, assange, soros, fbi    | communist, republicans, gop, dems, commie            | portland, ga, electors, texas, governor         | pelosi, nancy, vandalized, her, nancys       | flu, covid, vaccines, deaths, covid19                  | traitors, treason, traitor, treasonous, sedition |
| Jan 03 | pence, patriots, swamp, rino, romney     | dominion, msm, fbi, fraud, soros           | republicans, commie, dems, ****amendment, communists | ga, runoff, governor, ballots, rigged           | pelosi, nancy, abrams, kamala, stacey        | vaccine, covid, flu, vaccines, covid19                 | traitors, peaceful, traitor, treason, protest    |
| Jan 06 | pence, swamp, lindsey, traitor, maga     | flynn, fbi, soros, corruption, pardon      | unity, gop, communist, parties, revolution           | rigged, electoral, ga, elections, senate        | pelosi, unarmed, nancy, shot, capitol        | vaccine, covid, virus, vaccines, covid19               | capitol, traitors, traitor, treason, protest     |
| Jan 08 | pence, impeach, impeachment, cruz, biden | wikileaks, pedopodesta, emails, fbi, flynn | insurrection, communist, camps, gop, dems            | fuckboys, rigged, portland, anwsers, 2672290150 | pelosi, nancy, pelosis, impeachment, candace | flu, vaccine, covidlondon, thevirus, governmentpushing | capitol, treason, traitor, traitors, rioters     |

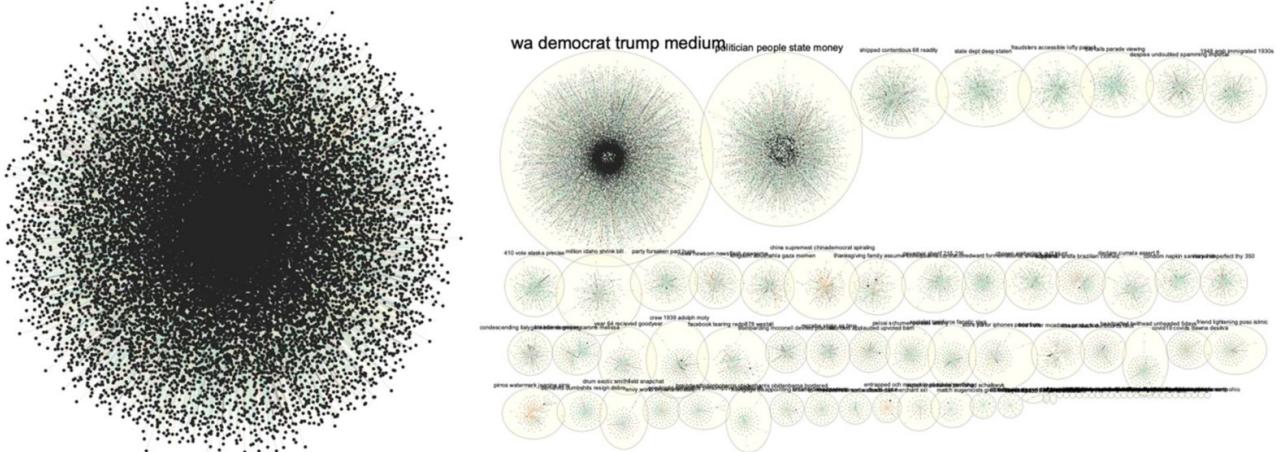


Figure 6. The union graph of all daily extractions (left). The same graph (right) decomposed into narrative sub-communities using a modularity-based community detection algorithm. The labels are generated by calculating the most frequent words in node labels and selecting the top ranked words or phrases, and do not capture the overall topic space of each cluster nor the wide range of actants.

## *Comprehensive Graphs*

A union graph of all the days in the study period provides a broad and informative overview of the narrative frameworks driving Parler conversations and their interconnections. Although this main graph presents as a nearly intractable hairball ( $V=26981$ ,  $E=3220666$ , density=0.003, clustering coefficient = 0.61, 79 connected components, with one giant connected component accounting for 63% of vertices), the decomposition of the graph into subgraphs reveals some large, semantically coherent narrative communities ([Fig 6](#)). Most prominent among these clusters is a central conversation about Washington, corruption, Democrats, the deep state and the stolen election. Other prominent narrative clusters incorporate discussions of class warfare, China, antifa, the pandemic and vaccination.

These subgraphs can be further decomposed into additional subgraphs that in turn reveal an increasingly fine-grained view of the components as interlocking narrative communities. For instance, one of the larger narrative clusters in the union graph details the role of George Soros and other globalists with their connections to deep state actors such as the CIA and Obama holdovers and their alliance with Marxists and communists, thereby emphasizing their role as enemies of America and her patriotic defenders ([Fig 7](#)).

## *Binned graphs*

The contours of the conspiracy theorizing narrative framework becomes clearer through consideration of the complete graphs for each bin and their attendant subgraphs. It is also in these subgraphs that one finds evidence of the emerging conspiracy to take violent action in Washington. The initial narrative groupings in the bin comprising conversations during the run up

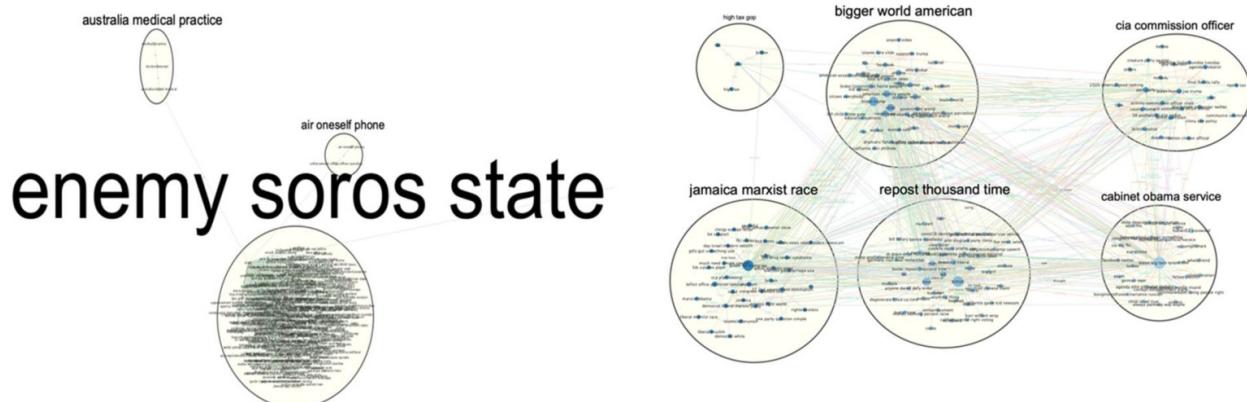


Figure 7: The Soros globalist sub-graph (left), with the main cluster further decomposed into narrative communities (right) revealing the strong connections between foreign Marxist forces, globalists, Nazis, Biden, Bill Gates, child trafficking, Islam, Obama, and the Deep State.

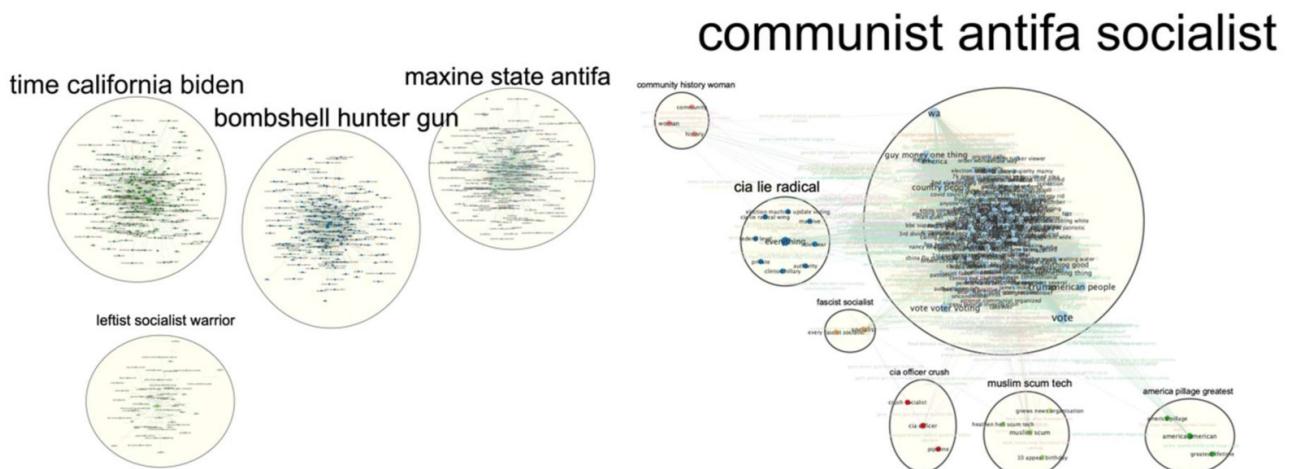


Figure 8. A labeled overview of the bin 1 conversations (left), with a close-up of a decomposition of the “maxine, state, antifa” cluster (right), revealing the connections between deep state actors, Islam, communists, Democrats and violent left-wing movements and their role in the election.

to the election (November 1-3) already reveal a strong pro-Trump slant to the discussions. Conspiracy theorizing about Hunter Biden, the deep state, Antifa and the connection between the Democrats and socialist/communist forces takes up a large part of the narrative space, with the intercommunity edges coming from a small number of topics (Fig 8). A clear illustration of a small set of topics linking two communities appears between the large subgraph labeled “communist, antifa, socialist” and the smaller “muslim, scum, tech” subgraph, where the edges come exclusively from topics labeled swamp (0), communist (1), Georgia (3), masks (13), antifa (17), and Omar/muslims (36). Concerns about voting are also apparent in graphs from bin 1, even though the election has yet to happen.

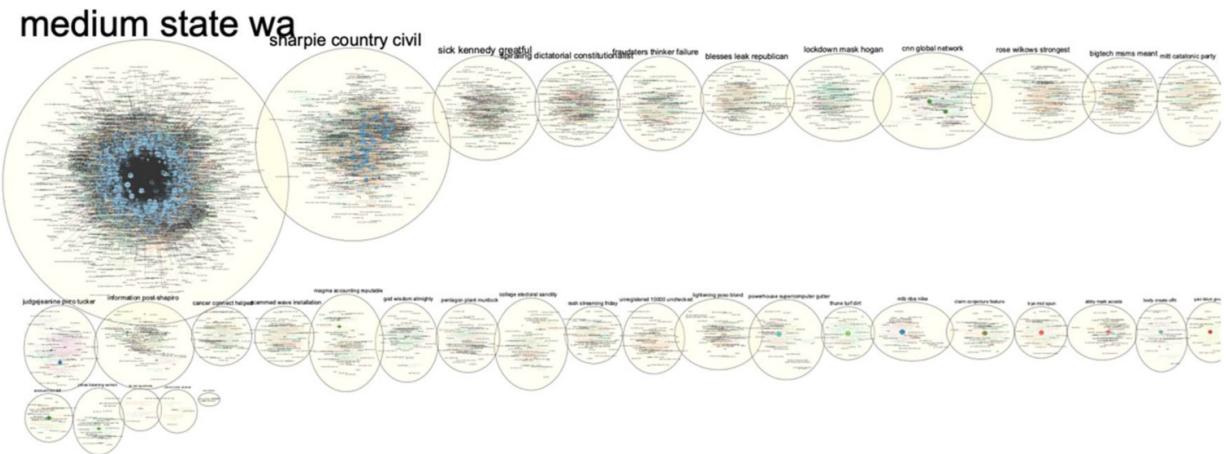


Figure 9. The decomposition of bin 2, which covers posts from the end of the election to the “Million Maga March,” shows the considerable growth in narrative communities; nevertheless, the main conversation remains centered on Washington, the deep state and increasing discussion of fraud.

In the subsequent bins the narratives become more elaborate, yet the core remains largely the same (Fig 9). The main narrative community in these bins consistently focuses on deep state actors and their machinations to deny Trump’s election. Patriots, family and God are strongly arrayed against these forces, while secondary narrative clusters generate the broad conspiracy theories of globalists, Hunter Biden and his corruption, the role of the Chinese Communist party, and a strong socialist/anti-Americanism among Democrats.

A closeup of a narrative community further partitioned into smaller communities from bin 6, which begins with the Proud Boys March on Washington, ramps up the discussions of alternative slates of electors. The Capitol, which was the site of the Proud Boys march, emerges as a likely locus for future protest, while discussions about the role of globalists and foreign state actors in stealing the election reveals dense connections between these otherwise disparate discursive arenas (Fig 10).

Ivy league professors and other left wing actants are connected through edges with the topics “communists” (2) and “Pelosi” (4) to treasonous politicians in the “Hunter agenda soul Obama” cluster, while the Antichrist cluster is linked through “swamp” (0) and “Communist” (2) edges to Dominion and ballot stealing in the main Sydney Powell cluster. In contrast, the “Helping patriot police” cluster, with a prominent “Trump martial law” node is connected by edges in the “Barr” topic (22) to supportive nodes such as “Republicans” in the “democrat mass communist” cluster and Kyle Rittenhouse in the “socialist online harmful” cluster. This pattern of specific topic edges between subgraphs repeats itself across all our decompositions and lends support to the hypothesis that these narrative subgraphs are

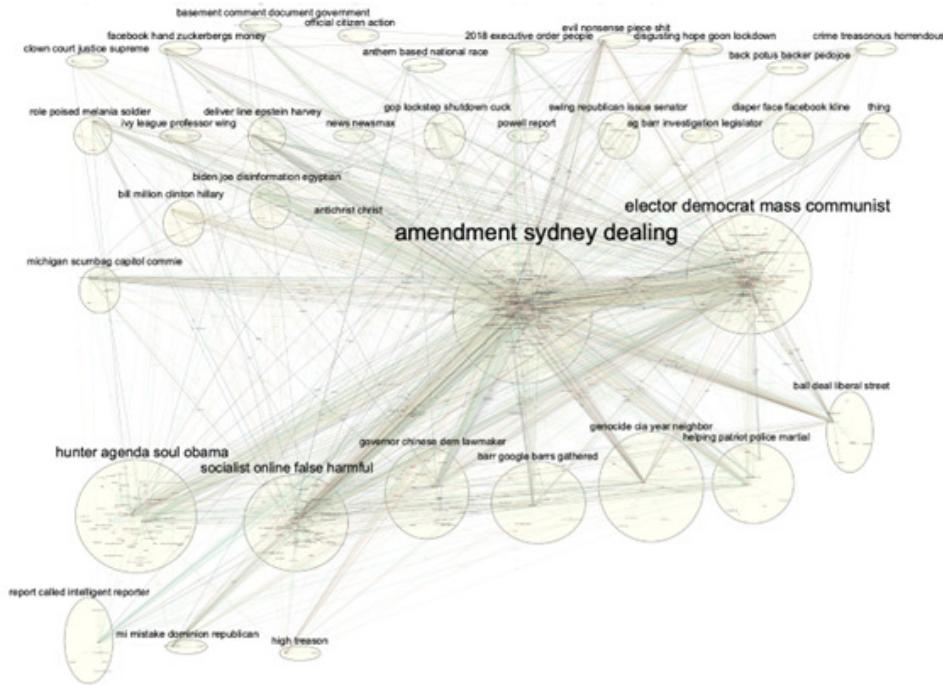


Figure 10. A secondary decomposition of one of the narrative communities discovered in the bin 6 graph covering conversations from December 12, the date of the Proud Boys March in Washington to December 18, the date that Trump announced the January 6<sup>th</sup> rally. Here, the numerous links between what would otherwise be disjoint discursive arenas helps illustrate the mechanisms of narrative linking predicated on low probability connections common to conspiracy theories. Note the appearance of clusters for the antichrist, high treason, and ivy league professor.

connected through edges, largely encoding verb phrases, that are dependent on ideologically motivated interpretations of events or other forms of speculation.

By the later bins, the narrative landscape is clear and consistent, with Democrats aligned with globalists, foreign and deep state actors, tech billionaires, and possibly Satan to undermine the election. Bin 7, covering the period from December 18 when Trump announces the January 6th rally to December 27th, the day prior to Jeffrey Clark sending a letter to Georgia alleging an ongoing investigation into election irregularities, for example, has a major narrative component focused on the Clintons who had previously figured prominently in Pizzagate, with its accusations of Satanic pedophilic cannibalism, and later QAnon; here, they are closely tied narratively to Hollywood, Iran, and Communists. In bin 8, the penultimate grouping covering the period from the Clark letter to the day prior to the Capitol police report warning of potential violence on January 6, one finds a large narrative component focused on prominent Republican party members and an increasing suspicion that they lack commitment to Trump, the broader patriot movement and, by extension, the country ([Fig 11](#)).

The graphs from the final bin stand as an outlier, as they include real-time posts from the insurrection as well as posts made in its immediate aftermath. In the days after the insurrection, the antagonistic BLM/Antifa narrative components are flipped on their head, with the violence at the Capitol being

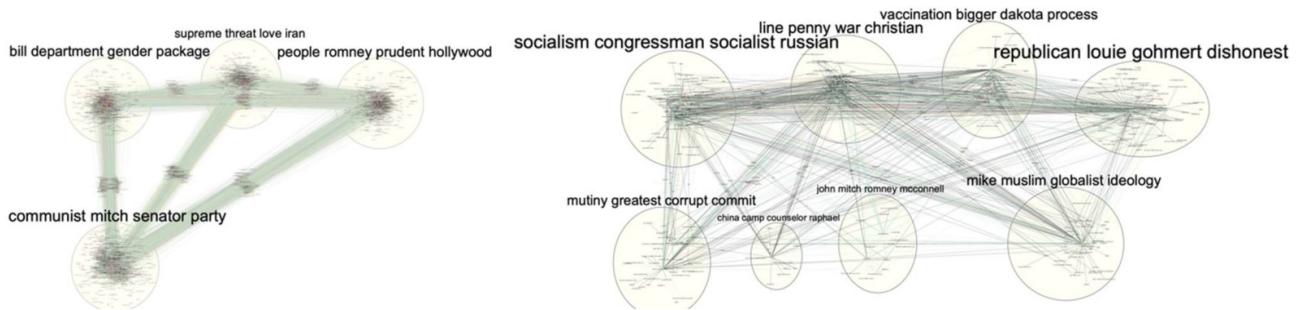


Figure 11. A decomposition of the Clinton narrative cluster from bin 7 (left), and a decomposition of the Republican narrative cluster from bin 8 (right). In both, strong connections are generated between communists, Democrats and named Republicans whose dedication to the cause may be in question.

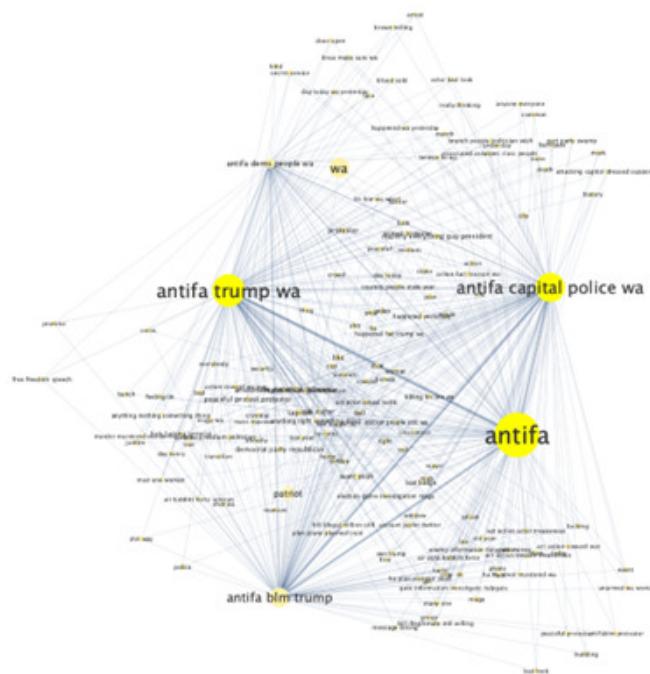


Figure 12. A close-up of an antifa cluster extracted from narrative clusters in bin 9. The dense connections between antifa nodes, Democrats and the Capitol Police support the narrative that the insurrection was not perpetrated by “patriots” but rather was a false flag operation initiated by Antifa infiltrators.

blamed in large part on infiltrators from these movements. In one Antifa focused cluster, the role of Antifa, possibly in collusion with the Capitol police and the “dems” overwhelm the patriots and supporters of Trump ([Fig 12](#)).

Hiding within the thicket of these conversations starting early in November is the emergent consensus that the best way to challenge the threat to the election posed by the all the different groups marshaled against God, country, patriots and Trump is to plan a protest that matches the perceived violence of Antifa-instigated actions during the BLM protest in the summer of 2020. Exhortations to violent, retributive action and commitments of organizational infrastructure are largely embedded in conversations about BLM and Antifa, and include calls for armed resistance, such as “resist this



Figure 13. Closeup of a BLM/Antifa cluster (left), where individual posts contributing to the links between entities are shown as annotations on the edges, and the exhortation to resist Biden and the globalists (right).

tyrant [Biden] with every fiber of your being,” while making clear Biden’s close connection to globalists, nazis, big tech, and Islam (Fig 13). Various posts offer aid in organizing, such as “Guys, ten million to Washington is focused on bringing patriot groups together nationwide. If you have a rally or patriot group that needs support...please send us the information...we will help raise awareness”, while posts in the narrative neighborhood of BLM/Antifa endorse violence as a central strategy: “The US Constitution allows for hostile inauguration of a president elect. Will you be first to pick up arms?”

Although there is no single narrative community that could be labeled “strategy” or “armed insurrection,” the conversations emerge across all the different narrative communities, occluded by the more elaborate conspiracy theorizing, yet with the immanent strategy of a violent recovery of the stolen election.

### ***Intersection and Union Graphs***

We create an additional set of graphs that capture the intersection of the otherwise dense graphs of actants and relationships for each day in the individual bins. By intersecting the graphs, we capture the consistent features of the narrative frameworks for each bin (Fig 14). Although the method is simple, it reveals shifts in the narrative space over time and, just as importantly, a remarkable consistency in main actants and their relationships, adding additional confirmatory evidence to the observation that the narrative frameworks on Parler were highly focused and consistent despite the enormous rise in users after the flight from mainstream platforms such as Twitter (now X) and Facebook.

For example, the intersection graph for bin 1 (Fig. 14a), in the lead up to the election, presents a relatively simple narrative, with the Trump White House aligned with God in a struggle against the deep state and Chinese Communist party; most of the edges come from topic 0, labeled “Pence, swamp, Biden, Rudy.” In bin 2, the conversations become more detailed, and a consistent

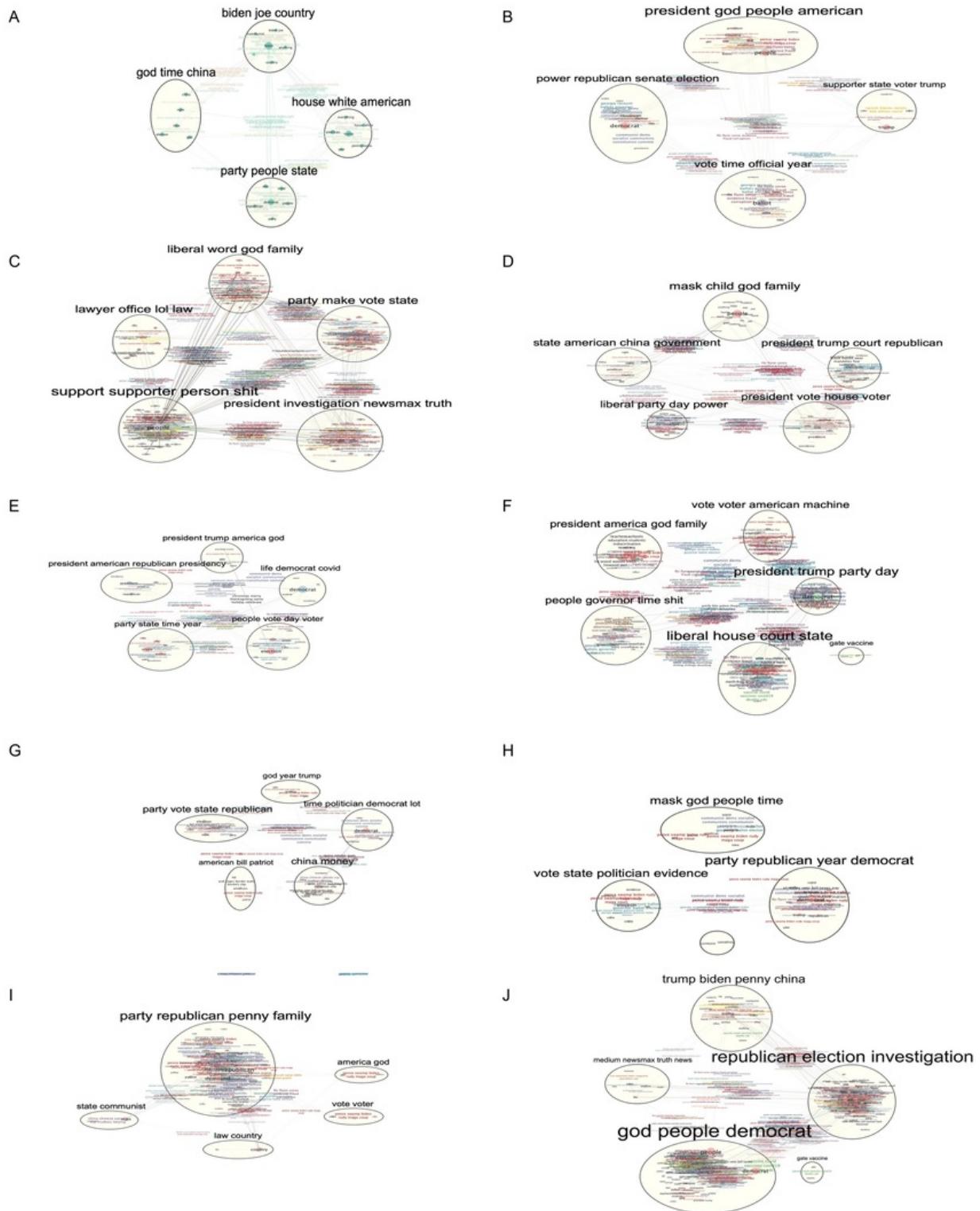


Figure 14. Intersection graphs [a-i] for the nine bins and a union [j] of the intersection graphs. Community detection discovers narrative clusters, and labels are generated by taking the highest frequency words in the label set for the cluster.

message begins to emerge: God is on the side of the American people, who support Trump, while the Communist-influenced Democrats have been involved in perpetrating election fraud. Bins 3 and 4 continue to elaborate on this core narrative, with increasing ire directed at deep state actors such as the FBI, and the ongoing threats of leftists to God and family, with bin 4

emphasizing the role of the Chinese Communist Party in undermining the election. In bin 5, discussions of the pandemic become prominent along with holiday greetings. In bin 6, the alignment of Democrats with communists, socialists, abortionists and pedophiles is apparent, as the president is even more overtly aligned with God and family; edges related to Georgia and the efforts to force a recount are prominent as well, while Bill Gates and efforts at vaccination form a prominent, although disconnected, cluster. In bin 7, the intersection of the narrative graphs becomes less complex, with China and the Democrats aligned clearly against Trump and God, a condensed narrative echoed in bin 8 and the immediate run up to January 6. Importantly, in bin 9, which includes the aftermath of the insurrection, Mike Pence is closely connected to the Democrats, while America and God are closely connected in their own cluster, in opposition to the swamp and the deep state. The Chinese Communist Party continues to influence the Democrats, while Trump, Republicans and patriots play prominent roles in the main narrative cluster.

## Conclusion

The events of January 6th are difficult to forget. There has been considerable ink spilled in understanding the confluence of various forces and ideologies that led to the violent insurrection. The discussions on Parler, which we model as driven by an underlying narrative framework, provide insight into some of these forces, and help chart the role that social media may have played in generating consensus both in the context of answering “what happened?,” but also providing support for emerging answers to the question, “what should we do about it?” In a series of narrative links breathtaking in scope, posters on Parler activated many of the different conspiracy theories that had been elaborated by Pizzagate and QAnon forums, and during the COVID-19 pandemic. At the abstract level of the narrative framework, the posters on Parler proposed that deep state actors such as the FBI, who constitute the “swamp” of Washington DC, used their positions of power to collude with state election officials, such as those in Georgia, to corrupt the election process, relying on suspect technology, such as Dominion’s voting machines and servers in foreign countries or satellites controlled by foreign state actors, as well as the machinations of corrupt local and state officials, to elect Joe Biden president. Globalists, tech titans and the mainstream media and popular social media platforms used their untold wealth and extraordinary reach to continue their increasing control of both the economy and power. Democrats, intent on destroying the fabric of God-fearing American culture, and buoyed by the anarchic Antifa and violently treasonous BLM, linked up with socialist and communist forces, most notably the Chinese Communist Party, to pose a sustained threat to American family values, perhaps best seen in their association with Jeffrey Epstein, Hollywood, trafficking and Satanic pedophilia. The COVID-19 pandemic was largely a hoax that, through the

offices of the CDC and Fauci, allowed the state to force Americans to submit to restrictions to freedom of movement and threats to their bodily autonomy through vaccination.

These narrative threats to the integrity of the community of God-loving/fearing American patriots demanded action. By mid-November, a conspiracy to take real world action against these narratively constructed threats began forming. In these organizational threads, “patriot” groups offered each other support, while reaching agreement that the date of their action would be January 6th, offering Mike Pence an opportunity to show his true colors; indeed, considerable discussion surrounded the question of whether he would support the true Americans or whether he would reveal himself to be a traitor to the cause. The intentions for this protest were almost certainly violent from the very beginning, with discussions about the planned event linked to discussions of BLM demonstrations from the summer of 2020 that were uniformly seen by posters on the platform as violent, anti-democratic, “fascist” activities, instigated largely by anarchic Antifa protesters. Combining misinformed readings of American history and law with a posture of macho militarism through references to Michael Flynn, guns and ammo, the solution to the imagined threat was to “[k]ill the EVIL LEFTIST SCUM, before they kill you! Stand up KILL for your country, Americans! TAKE TO THE STREETS IN YOUR tens of MILLIONS! Start a REVOLUTION.” In short, posters on Parler were organizing a dangerous real-world conspiracy to counteract the threats of the conspiracy theory they had generated on that same platform.

*Data Repository:* <https://doi.org/10.7910/DVN/B8FPFM>

Submitted: July 12, 2024 EDT. Accepted: November 26, 2024 EDT. Published: September 10, 2025 EDT.



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## WORKS CITED

Abello, James, et al. "A Max Flow Min Cut View of Social Media Posts." *13th International Conference on Data Science, Technology and Applications*, 2024, pp. 190–201, <https://doi.org/10.5220/0012862500003756>.

Adamic, Lada A., and Natalie Glance. "The Political Blogosphere and the 2004 US Election: Divided They Blog." *Proceedings of the 3rd International Workshop on Link Discovery*, 2005, pp. 36–43, <https://doi.org/10.1145/1134271.1134277>.

Aldera, Saja, et al. "Online Extremism Detection in Textual Content: A Systematic Literature Review." *IEEE Access*, vol. 9, 2021, pp. 42384–96, <https://doi.org/10.1109/ACCESS.2021.3064178>.

Aliapoulios, Max, et al. "A Large Open Dataset from the Parler Social Network." *Proceedings of the International AAAI Conference on Web and Social Media*, vol. 15, 2021, pp. 943–51, <https://doi.org/10.1609/icwsm.v15i1.18117>.

---. *An Early Look at the Parler Online Social Network*. arXiv preprint arXiv:2101.03820, 2021.

Alshaabi, Thayer, et al. "Storywrangler: A Massive Exploratorium for Sociolinguistic, Cultural, Socioeconomic, and Political Timelines Using Twitter." *Science Advances*, vol. 7, no. 29, 2021, p. e6534, <https://doi.org/10.1126/sciadv.abe6534>.

AP News. *Transcript of Trump's Speech at Rally Before US Capitol Riot*. 13 Jan. 2021, <https://apnews.com/article/election-2020-joe-biden-donald-trump-capitol-siege-media-e79eb5164613d6718e9f4502eb471f27>.

Baele, Stephane J., et al. "Variations on a Theme? Comparing 4chan, 8kun, and Other Chans' Far-Right '/pol' Boards." *Perspectives on Terrorism*, vol. 15, no. 1, 2021, pp. 65–80.

Bakshy, Eytan, et al. "Exposure to Ideologically Diverse News and Opinion on Facebook." *Science*, vol. 348, no. 6239, 2015, pp. 1130–32.

Barkun, Michael. *A Culture of Conspiracy: Apocalyptic Visions in Contemporary America*. University of California Press, 2013.

Bearman, Peter S., and Katherine Stovel. "Becoming a Nazi: A Model for Narrative Networks." *Poetics*, vol. 27, no. 2–3, 2000, pp. 69–90, [https://doi.org/10.1016/S0304-422X\(99\)00022-4](https://doi.org/10.1016/S0304-422X(99)00022-4).

Bond, Bayleigh Elaine, and Ryan Neville-Shepard. "The Rise of Presidential Eschatology: Conspiracy Theories, Religion, and the January 6th Insurrection." *American Behavioral Scientist*, vol. 67, no. 5, 2023, pp. 681–96, <https://doi.org/10.1177/00027642211046557>.

Broadwater, Luke. *Oath Keepers on Trial: An Account of the Historic Capitol Riot Case*. Simon & Schuster, 2023.

Chavez, Leo. *The Latino Threat: Constructing Immigrants, Citizens, and the Nation*. Stanford University Press, 2013, <https://doi.org/10.1515/9780804786188>.

Cinelli, Matteo, Gabriele Etta, et al. "Conspiracy Theories and Social Media Platforms." *Current Opinion in Psychology*, 2022, p. 101407, <https://doi.org/10.1016/j.copsyc.2022.101407>.

Cinelli, Matteo, Gianmarco De Francisci Morales, et al. "The Echo Chamber Effect on Social Media." *Proceedings of the National Academy of Sciences*, vol. 118, no. 9, 2021, p. e2023301118, <https://doi.org/10.1073/pnas.2023301118>.

Ciovacco, Carl. "The Shaping of Threat Through Narration." *Journal of Strategic Security*, vol. 13, no. 2, 2020, pp. 48–63, <https://doi.org/10.5038/1944-0472.13.2.1754>.

Colley, Thomas, and Martin Moore. "The Challenges of Studying 4chan and the Alt-Right: 'Come on in the Water's Fine.'" *New Media & Society*, vol. 24, no. 1, 2022, pp. 5–30, <https://doi.org/10.1177/1461444820948803>.

Dalsheim, Joyce, and Gregory Starrett. "Everything Possible and Nothing True: Notes on the Capitol Insurrection." *Anthropology Today*, vol. 37, no. 2, 2021, pp. 26–30, <https://doi.org/10.1111/1467-8322.12645>.

Davies, Dave. "Social Media's Role in Jan. 6 Was Left Out of the Final Report." *Fresh Air*, NPR, 26 Jan. 2023, <http://www.npr.org/2023/01/26/1151360750/social-medias-role-in-jan-6-was-left-out-of-the-final-report>.

Dawson, Paul, and Maria Mäkelä. "The Story Logic of Social Media: Co-Construction and Emergent Narrative Authority." *Style*, vol. 54, no. 1, 2020, pp. 21–35, <https://doi.org/10.5325/style.54.1.0021>.

Dodds, Peter Sheridan, et al. "Computational Timeline Reconstruction of the Stories Surrounding Trump: Story Turbulence, Narrative Control, and Collective Chronopathy." *PLoS One*, vol. 16, no. 12, 2021, p. e0260592, <https://doi.org/10.1371/journal.pone.0260592>.

Geertz, Clifford. "Thick Description: Toward an Interpretive Theory of Culture." *The Interpretation of Cultures*, Basic Books, 1973, pp. 3–30.

Greenberg, Andy. "An Absurdly Basic Bug Let Anyone Grab All of Parler's Data." *Wired*, 12 Jan. 2021, <http://www.wired.com/story/parler-hack-data-public-posts-images-video/>.

Greve, Henrich R., et al. "Online Conspiracy Groups: Micro-Bloggers, Bots, and Coronavirus Conspiracy Talk on Twitter." *American Sociological Review*, vol. 87, no. 6, 2022, pp. 919–49, <https://doi.org/10.1177/00031224221125937>.

Grootendorst, Maarten. *BERTopic: Neural Topic Modeling with a Class-Based TF-IDF Procedure*. arXiv preprint arXiv:2203.05794, 2022.

He, Yuzi, et al. "Leveraging Change Point Detection to Discover Natural Experiments in Data." *EPJ Data Science*, vol. 11, no. 1, 2022, p. 49, <https://doi.org/10.1140/epjds/s13688-022-00361-7>.

Holur, Pavan, David Chong, et al. "My Side, Your Side and the Evidence: Discovering Aligned Actor Groups and the Narratives They Weave." *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, 2023, pp. 8938–52.

Holur, Pavan, Tianyi Wang, et al. "Which Side Are You On? Insider-Outsider Classification in Conspiracy-Theoretic Social Media." *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, 2022, pp. 4975–87, <https://doi.org/10.18653/v1/2022.acl-long.341>.

Israeli, Abraham, and Oren Tsur. "Free Speech or Free Hate Speech? Analyzing the Proliferation of Hate Speech in Parler." *Proceedings of the Sixth Workshop on Online Abuse and Harms (WOAH)*, 2022, pp. 109–21, <https://doi.org/10.18653/v1/2022.woah-1.11>.

Jing, Elise, and Yong-Yeol Ahn. "Characterizing Partisan Political Narrative Frameworks About COVID-19 on Twitter." *EPJ Data Science*, vol. 10, no. 1, 2021, p. 53, <https://doi.org/10.1140/epjds/s13688-021-00308-4>.

Kim, Joy, and Andres Monroy-Hernandez. "Storia: Summarizing Social Media Content Based on Narrative Theory Using Crowdsourcing." *Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing*, 2016, pp. 1018–27, <https://doi.org/10.1145/2818048.2820072>.

Li, Lucy, and David Bamman. "Characterizing English Variation Across Social Media Communities with BERT." *Transactions of the Association for Computational Linguistics*, vol. 9, 2021, pp. 538–56, [https://doi.org/10.1162/tacl\\_a\\_00383](https://doi.org/10.1162/tacl_a_00383).

Loveland, Matthew T., and Delia Popescu. "The Gypsy Threat Narrative: Explaining Anti-Roma Attitudes in the European Union." *Humanity & Society*, vol. 40, no. 3, 2016, pp. 329–52, <https://doi.org/10.1177/0160597615601715>.

Luceri, Luca, et al. "Social Media Against Society." *The Internet and the 2020 Campaign*, 2021, p. 1.

Matthews, Abigail, et al. "Politicians, Pundits, and Platform Migration: A Comparison of Political Polarization on Parler and Twitter." *Northeast Journal of Complex Systems (NEJCS)*, vol. 5, no. 1, 2023, p. 5, <https://doi.org/10.22191/nejcs/vol5/iss1/5/>.

McKernan, Brian, et al. "Echo Chambers, Cognitive Thinking Styles, and Mistrust? Examining the Roles Information Sources and Information Processing Play in Conspiracist Ideation." *International Journal of Communication*, vol. 17, 2023, p. 24.

Munn, Luke. "More Than a Mob: Parler as Preparatory Media for the US Capitol Storming." *First Monday*, 2021, <https://doi.org/10.5210/fm.v26i3.11574>.

Norgaard, Julia R., and Harold Walbert. "Group Polarization?: An Analysis of Parler Data in the Wake of the Capitol Riot." *Journal of Entrepreneurship and Public Policy*, 2023, <https://doi.org/10.1108/JEPP-08-2022-0087>.

Norton, Eliana, et al. *Temporal Analysis of Misinformation on Parler*. arXiv preprint arXiv:2306.13913, 2023.

Ouyang, Jessica, and Kathleen McKeown. "Modeling Reportable Events as Turning Points in Narrative." *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing*, 2015, pp. 2149–58, <https://doi.org/10.18653/v1/D15-1257>.

Page, Ruth, et al. "From Small Stories to Networked Narrative: The Evolution of Personal Narratives in Facebook Status Updates." *Narrative Inquiry*, vol. 23, no. 1, 2013, pp. 192–213, <https://doi.org/10.1075/ni.23.1.10pag>.

Peck, Andrew. "A Problem of Amplification: Folklore and Fake News in the Age of Social Media." *Journal of American Folklore*, vol. 133, no. 529, 2020, pp. 329–51, <https://doi.org/10.5406/jamerfolk.133.529.0329>.

Rajendran, Arundarasi, et al. "Detecting Extremism on Twitter During US Capitol Riot Using Deep Learning Techniques." *IEEE Access*, vol. 10, 2022, pp. 133052–77, <https://doi.org/10.1109/ACCESS.2022.3227962>.

Rondeaux, Candace, et al. "Parler and the Road to the Capitol Attack: Investigating Alt-Tech Ties to January 6." *New America*, 2022, <http://www.newamerica.org/future-frontlines/reports/parler-and-the-road-to-the-capitol-attack/>.

Rösner, Leonie, and Nicole C. Krämer. "Verbal Venting in the Social Web: Effects of Anonymity and Group Norms on Aggressive Language Use in Online Comments." *Social Media + Society*, vol. 2, no. 3, 2016, p. 2056305116664220, <https://doi.org/10.1177/2056305116664220>.

Rowley, Matthew. "Prophetic Populism and the Violent Rejection of Joe Biden's Election: Mapping the Theology of the Capitol Insurrection." *International Journal of Religion*, vol. 2, no. 2, 2021, pp. 145–64, <https://doi.org/10.33182/ijor.v2i2.1697>.

Sadler, Neil. *Fragmented Narrative: Telling and Interpreting Stories in the Twitter Age*. Routledge, 2021, <https://doi.org/10.4324/9780429020889>.

---. "Narrative and Interpretation on Twitter: Reading Tweets by Telling Stories." *New Media & Society*, vol. 20, no. 9, 2018, pp. 3266–82, <https://doi.org/10.1177/1461444817745018>.

Shahsavari, Shadi, et al. "Conspiracy in the Time of Corona: Automatic Detection of Emerging COVID-19 Conspiracy Theories in Social Media and the News." *Journal of Computational Social Science*, vol. 3, no. 2, 2020, pp. 279–317, <https://doi.org/10.1007/s42001-020-00086-5>.

Swidler, Anne. "Culture in Action: Symbols and Strategies." *American Sociological Review*, vol. 51, no. 2, 1986, pp. 273–86, <https://doi.org/10.2307/2095521>.

Tangherlini, Timothy R., Shadi Shahsavari, et al. "An Automated Pipeline for the Discovery of Conspiracy and Conspiracy Theory Narrative Frameworks: Bridgegate, Pizzagate and Storytelling on the Web." *PLoS One*, vol. 15, no. 6, 2020, p. e0233879, <https://doi.org/10.1371/journal.pone.0233879>.

Tangherlini, Timothy R., Vwani Roychowdhury, et al. "'Mommy Blogs' and the Vaccination Exemption Narrative: Results from a Machine-Learning Approach for Story Aggregation on Parenting Social Media Sites." *JMIR Public Health and Surveillance*, vol. 2, no. 2, 2016, p. e6586, <https://doi.org/10.2196/publichealth.6586>.

Tangherlini, Timothy R. "The Folklore Macroscope: Challenges for a Computational Folkloristics." *Western Folklore*, 2013, pp. 7-27.

---. "Toward a Generative Model of Legend: Pizzas, Bridges, Vaccines, and Witches." *Humanities*, vol. 7, no. 1, 2017, p. 1, <https://doi.org/10.3390/h7010001>.

---. "Who Ya Gonna Call?: Ministers and the Mediation of Ghostly Threat in Danish Legend Tradition." *Western Folklore*, vol. 57, no. 2/3, 1998, pp. 153-78, <https://doi.org/10.2307/1500218>.

Torregrosa, Javier, et al. "A Survey on Extremism Analysis Using Natural Language Processing: Definitions, Literature Review, Trends and Challenges." *Journal of Ambient Intelligence and Humanized Computing*, vol. 14, no. 8, 2023, pp. 9869-905, <https://doi.org/10.1007/s12652-021-03658-z>.

Tucker, Joshua A., et al. "Social Media, Political Polarization, and Political Disinformation: A Review of the Scientific Literature." *Political Polarization, and Political Disinformation: A Review of the Scientific Literature*, Mar. 2018, <https://doi.org/10.2139/ssrn.3144139>.

Tuters, Marc. "A Prelude to Insurrection: How a 4chan Refrain Anticipated the Capitol Riot." *Fast Capitalism*, vol. 18, no. 1, 2021, <https://doi.org/10.32855/fcapital.202101.006>.

Utriainen, Maija, and John H. Morris. "clusterMaker2: A Major Update to clusterMaker, a Multi-Algorithm Clustering App for Cytoscape." *BMC Bioinformatics*, vol. 24, no. 1, 2023, p. 134, <https://doi.org/10.1186/s12859-023-05225-z>.

VanDyke, David. "Coded Data: Tracking Discursive Trends in the January 6 Parler Data." *The Capitol Riots*, Routledge, 2022, pp. 72-94, <https://doi.org/10.4324/9781003246862-7>.

Whitehead, Andrew L., and Samuel L. Perry. *Taking America Back for God: Christian Nationalism in the United States*. Oxford University Press, 2020, <https://doi.org/10.1093/oso/9780190057886.001.0001>.

Wolfendale, Jessica. *The Narrative of Terrorism as an Existential Threat*. Routledge Handbook of Critical Terrorism Studies, 2016.

Zannettou, Savvas, et al. "Disinformation Warfare: Understanding State-Sponsored Trolls on Twitter and Their Influence on the Web." *Companion Proceedings of the 2019 World Wide Web Conference*, 2019, pp. 218-26, <https://doi.org/10.1145/3308560.3316495>.

Zhao, Wanying, et al. *Discovering Collective Narratives Shifts in Online Discussions*. arXiv preprint arXiv:2307.08541, 2023.