



BRILL

MIDDLE EAST JOURNAL OF CULTURE AND  
COMMUNICATION 10 (2017) 175–203



brill.com/mjcc

# Twitter and Global Political Crises

## *Cycles of Insecurity in #PrayforParis and #PrayforSyria*

*Ben O'Loughlin*

Royal Holloway, University of London, UK

*Corresponding author: Ben.OLoughlin@rhul.ac.uk*

*Cristian Vaccari*

Royal Holloway, University of London, UK

*Billur Aslan Ozgul*

Royal Holloway, University of London, UK

*James Dennis*

University of Portsmouth, UK

### Abstract

This study examines social media responses to the 13 November 2015 Paris attacks by the Islamic State. First impressions of over 2,000,000 tweets containing hashtags #PrayforParis and #PrayforSyria suggested a conflation of three issues: (1) Migration: were the attackers homegrown or carrying overseas passports? (2) Violence: why was Paris attacked and why is France bombing the Islamic State? (3) Media: what role should mainstream and social media play during events that are local and global, unique and yet part of a series? However, instead of conflating media, migration and terrorism, we found users of both hashtags discussing Syria, foreign policy, and justice and fairness. Building on previous research exploring how social media affordances encourage certain communication behaviors, we test whether Twitter's reply function is more conducive to antagonistic comments than retweets, which we hypothesise allow for an expression of solidarity and universalism. Conversations about Syria contain greater antagonism, explained by aspects of the tweet, user and network effects. The #PrayforParis and #PrayforSyria conversations exhibit neither the contestation of global attention nor a media-driven cycle of insecurity. The high frequency of agonistic and non-visual tweets, particularly about Syria, suggests a robust exchange of claims, refuting pessimistic depictions of Twitter as a space for superficiality and hate.

## Keywords

Twitter – Syria – foreign policy – terrorism – social media – public sphere

## Introduction

This article examines public reactions on social media to the 13 November 2015 attacks in Paris by the Islamic State, driven by the Twitter hashtag #PrayforParis and the response from those adopting a #PrayforSyria hashtag. The latter responses appeared to contest the exclusive or primary attention of Twitter users to conflict in Paris over conflict in Syria and elsewhere. For this research, we gathered nearly three million tweets containing the hashtags #PrayforParis and #PrayforSyria in the days after the attack. As a research team observing news media coverage of the attacks and apparent backlashes against Muslims and/or migrants in Europe, we expected to find that the debate about these hashtags would involve users conflating three issues: (1) Migration: Were the attackers homegrown or carrying overseas passports? (2) Violence: Why was Paris attacked and why is France bombing the Islamic State? (3) Media: What role should mainstream media and social media play during such events? In the event's aftermath, there were many debates about whether news media and social media platforms like Facebook offer disproportionate attention to casualties in Paris (see figure 1) at a time when catastrophes were unfolding simultaneously in Lebanon, Japan and elsewhere. Such debates condition immediate public and policy responses—the backlash—but also shape how public spheres function in the long term.

In this study, we aim to identify and explain the main differences in the contents, sources and diffusion networks of the tweets about the Paris and Syria attacks. We build on previous research exploring how social media affordances encourage certain communication behaviors, and we make two empirical contributions. First, we *operationalize complex and fuzzy concepts from political and social theory* through systematic descriptive, bivariate and multivariate analysis of public communication. In doing so, we first test the hypothesis that the #PrayforSyria tweets were more argumentative.

We know from political theory that presenting an argument in public necessarily makes one vulnerable or exposed to confrontation, misrepresentation, or to being ignored (Cavarero 2000). We know from social theory that tweeting in more directly confrontational ways carries a higher affective demand than simply sharing other people's information (Miller 2012). It involves greater 'identity work': one risks one's 'face' in posting a politically-charged state-

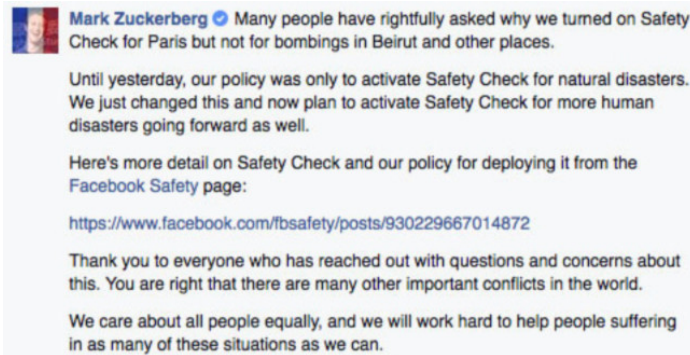


FIGURE 1 *Facebook CEO Mark Zuckerberg explains Facebook's safety check policy*

ment or directly posting a comment to an original commenter through Twitter's reply function. In this research, we conceptualize argumentative behavior through the concepts of agonism and antagonism (Mouffe 2000). Antagonism refers to statements that seek to exclude others from the shared space of politics: To either kill people or drive them out of the debate. Agonism refers to statements that dispute a policy or perspective, but do not seek the exclusion or destruction of those they disagree with. Agonism and antagonism are processes, not end-points; they are forms of action that constitute the endless play of claim and counter-claim that define 'the political'. We expect to find more agonism and antagonism in #PrayforSyria tweets than #PrayforParis because, based on the 'pray for Syria' trope that had been present in Syrian Facebook discussions since 2013 (see Crilley 2016), we know that users remixed it as a hashtag with the apparent motivation of contesting the distribution of global attention and hierarchy of pity (Boltanski 1999). However, given the conflation of discussions about media, migration and terrorism in European news media itself (Berry, Garcia-Blanco and Moore 2015), we test the second hypothesis, that users conflate discussions of media, migration and terrorism.

The second empirical contribution, then, is to *explain the drivers of agonism and antagonism*. We do this by testing the degree to which agonism and antagonism are correlated with retweet volumes, the topic of the debate, location and type of user. We take retweets as key indicators: retweets refer to the act of sharing another user's tweet with their own followers by clicking the RT symbol that accompanies that tweet. Retweets indicate the popularity of a tweet. We analyze these as dependent variables because this explains what properties of tweets are more likely to be popular and spread. We expect to find less antagonism among replies to less-retweeted posts. However, in regard to the second

hypothesis, we also explore whether the conflation of media, migration and terrorism drives the presence of agonism and antagonism.

In this article, we make two theoretical contributions. First, *this research helps us understand how ethics work in a global digital ecology*. The shift from broadcast to Web 2.0 offers more interaction and thus those suffering can be present *with* us, not presented *to* us (Miller 2012). As Floridi argues,

We are witnessing a substantial erosion of the *right to ignore* ... The more any bit of information is just an easy click away, the less we shall be forgiven for not checking it. ICTs are making humanity increasingly responsible, morally speaking, for the way the world is, will be, and should be.

FLORIDI 2015: 42–43

Nevertheless, our digital communities still have boundaries, though they remain invisible. Consequently, some scholars have argued for the need to *make* connectivity, or to bring those suffering outside our networks inside, so they are present within them. The #PrayforSyria promotion was one such effort: to bring another set of suffering humans to visibility, presence and recognition. Our study is set against a context in which hyperconnectivity is seen to cultivate a new mass responsibility. How can audiences compare and evaluate several tragedies? Did #PrayforSyria make the point that it is possible to care about more than one tragedy at once, or to balance western and non-western tragedies, or was there some other motive?

Second, this research illuminates some *new patterns in social responses that trigger events, such as terrorist attacks*. Our conception of 'cycles of insecurity' builds on a trajectory of sociological research on the role of mainstream media in amplifying moral panic. Particularly in the wake of disruptive social and political events, news reporting often demonizes certain social groups as 'folk devils' in ways that validate existing prejudices against such groups in ways that feed into communicative and even physical violence against them, thus triggering further rounds of counter-attacks and reprisals (Cohen 1972; Hall et al. 1978; Poynting et al. 2004). For several decades, this theory was relatively fixed because the public sphere was anchored by television, radio and press. However, criminologists have now begun to explore how social media enable different types of dynamics that amplify hate speech and possibly violence. For example, Williams and Burnap (2015) studied public responses on social media to the London 2013 terrorist attack in which the British soldier, Lee Rigby, was murdered. They applied Cohen's (1972) moral panic theory to identify degrees of hate speech in the initial impact stage before police and

mainstream media had confirmed what was happening. Analyzing 15 days of tweets following the event, they found that it was only in the initial few hours, before the “terrestrial”-paced police response’ could impose official meaning, that hate speech appeared with any frequency (Cohen 1972: 234); the police response soon stifled any cycle of insecurity and racist backlash. Importantly, Williams and Burnap found evidence of ‘counter-cyberhate speech’ (Williams and Burnap 2015: 233). Social media allow individuals to openly express this desire for positive intercultural relations and for a minimization of antagonism. For example, after the Brussels attacks in March 2016 the #StopIslam hashtag emerged as a trending Twitter topic around the world, but its surge in frequency was a result of people contesting it and condemning racism (Dewey 2016).

Furthermore, in this study we explore new mechanisms by which publics and counter-publics form and seek to make issues visible and to make themselves recognizable as publics making claims (Barnett 2003; Warner 2002). These new patterns are not only of interest for those theorizing about media and insecurity. We also expect them to feed into actors’ assumptions about how communication patterns unfold after terrorist attacks or other catastrophes. In this way, ‘cycles of insecurity’ acquire altered dynamics that affect perceptions and behavior. Hence, it is vital that we understand how antagonism is generated.

### **Mass Responses on Social Media: Shifting from Emotion to Antagonism**

Studies evaluating emotion in politics in social media content tend to use sentiment binaries rather than scales. An emotion is either present/absent or positive/negative. Human-coded studies of emotion on Twitter, particularly since the Arab uprisings of 2011, have focused on one particular emotion per study, for instance ‘enthusiasm’ or a ‘feeling of drive’. We discuss this research below. These studies offer little conceptual validity. Moreover, there are no systematic studies of political contestation in user interactions, such as individuals’ use of #PrayforSyria to make claims about Syria’s relation to the Paris attacks. This warrants a turn to theories of political contestation. In this section, we define an antagonistic tweet in contrast to an agonistic tweet.

Antagonism is associated with emotion, and emotion affects behavior online. Several studies have found that valence (strong positive/negative sentiment) and arousal (high/low excitement) are associated with an increased sharing of content on social media by users (Berger 2011; Berger and Milkman

2012). Researching the US movement Black Lives Matter and #Blacklivesmatter hashtag, Freelon, McIlwain and Clark (2016) coded tweets as supportive, opposed or non-aligned to the movement. They used interviews with movement activists to explain whether certain Twitter surges were motivated by emotions such as anger. They did not code emotion or antagonism in tweets in any transparent or granular manner.

Two major studies of social media emotion, too, ignore the issue of contestation. Meraz and Papacharissi (2013) analyzed 959,893 Latin character tweets from the month beginning 24 January 2011 when protests in Cairo began calling for President Mubarak to resign. The validity of coding for emotion was undermined because they found fact and emotion difficult to disentangle: 'most tweets were not just news or just opinion, but typically a blend of emotionally charged opinions on news' (Meraz and Papacharissi 2013: 156). As certain charged pieces of news were retweeted, they took on the function of refrains analogous to those found in music, marking 'an intensity that provides the pulse for a growing movement' (Meraz and Papacharissi 2013: 156). They then used *qualitative* analysis—'notes taken regarding language use and tone'—to document what they labeled 'a feeling of ongoing drive' as users expressed anticipation and excitement about a revolution to come (Meraz and Papacharissi 2013: 148, 160). Gerbaudo builds on Meraz and Papacharissi's study by seeking to *quantify* these emotional dynamics. Taking the Facebook protest pages of KKS (We are all Khaled Said) in the 2011 Egyptian revolution and the DRY (Real Democracy Now) page from Spanish protests of the same year, Gerbaudo identifies what he calls 'moments of digital enthusiasm' (Gerbaudo 2016: 255). These are defined as 'necessarily transient phases of intense, positive emotional mood emerging in political online conversations in proximity to major protest events' (Gerbaudo 2016: 255). Quantitative analysis illustrated an increased frequency of likes and comments. These data stood as proxies for emotion and attention around key events. The qualitative analysis of comments focused on tone and the use of exclamation marks, capitalized words and emoticons.

Importantly, we must turn to the emergent hate speech literature to conceptualize what antagonism looks like on Twitter. In their review of existing studies, Burnap and Williams (2016: 5) found that hate and antagonism were measured in terms of the use of profane or pejorative words, the use of first and second person pronouns, accusational terms, and 'othering' language that presents a 'we-they' dichotomy on religious or other grounds and is derogatory about the 'they' Burnap and Williams (2016: 5). Through computational linguistics and the use of multiple human coders, they were able to analyze such grammars and vocabularies with high reliability. Despite these tools, how-

ever, they ultimately only evaluated whether such speech is present or absent. And, in their study of responses to the 2013 Lee Rigby terrorist attack, Williams and Burnap only measure a tweet's sentiment as positive, negative or neutral. Measuring antagonism and the emotions surrounding antagonism on a spectrum or scale—quite antagonistic, very antagonistic—is too complex even for computational methods and large human teams.

For this reason, as a small-scale human-coding project, we looked for the presence of antagonism and agonism and saw how these associate with retweeting and other observable user behavior. We draw on Mouffe's conception that democratic talk proceeds through agonism, in which one considers one's political opponent at least as a legitimate adversary rather than, in antagonistic talk, an enemy to be eliminated (Mouffe 1993; 2000). For Mouffe, politics involves articulatory practices that link or do not link certain issues and identities; for instance, those linking migrants, terrorism and the Internet seek a way to draw boundaries between a threatened 'us' and dangerous 'them'. There is no possibility of resolution because the political principles in dispute, such as freedom of movement, physical security and equal rights, cannot all be fully realized. This 'undecidability' keeps politics open (Mouffe 1992a: 13) and the political space, as she argues, is a community held together by 'public concern', not by an idea, network shape, or identity (Mouffe, 1992b: 233). A Twitter conversation cohered by a hashtag enables that focus of public concern. While we expect most users to find a limit to the space of those sharing *their* opinion, in finding that limit and being exposed to *other* views, users realize the contestability of the issue (cf. Laclau and Mouffe 1985: 93–148).

We extend Mouffe's conception to include the referent. We do so in a way consistent with Schmittian aspect of Mouffe's thought, namely that politics involves a firm line between friend and enemy (Mouffe 1993; Schmitt 1976). In an agonistic tweet, the user considers those being discussed—migrants, refugees, ethnic or religious minorities—as legitimate adversaries whose place in democratic society can be acknowledged. In an antagonistic tweet, the user expresses antagonism not just in response to another user's tweet, but also by considering referents being discussed—again migrants, refugees, ethnic or religious minorities—as outside the legitimate polity, as people to be arrested, expelled and/or killed.

## Methodology

This research is based on the qualitative and quantitative analysis of tweets for the five days following the Paris attacks of 13 November 2015. The research question and hypotheses driving this study are as follows:

- RQ1: What are the main differences in the contents, sources and diffusion networks of the tweets about the Paris and Syria attacks?
- H1: Agonism and antagonism are driven by a conflation of media, migration and terrorism.
- H2: Antagonism is associated with retweet volumes: Tweets that are antagonistic are more likely to be retweeted.

In order to answer the question and test the hypotheses:

1. We gathered all tweets containing the hashtags #PrayforParis ( $N = 2,088,075$ ) and #PrayforSyria ( $N = 829,053$ ) via Twitter's Search API<sup>1</sup> in the time period from 13 to 18 November 2015.<sup>2</sup>
2. We cleaned the data by removing retweets, leaving a total of 269,075 unique tweets containing #PrayforParis and 56,618 unique tweets containing #PrayforSyria.<sup>3</sup>
3. Four coders agreed and discussed the coding frame in numerous meet-

---

1 "Application Programming Interface" (API) is a set of instructions and protocols that enables users to access a web-based software application. Twitter's API (<https://dev.twitter.com/>) allows researchers to retrieve public Twitter messages as well as relevant "metadata" such as the identifier of the user who posted them, date, location, language, and so forth. The Search API allows the search of tweets posted during the previous week. We limited our search to tweets posted by users using English as the language of their Twitter interface so we could expect most of the tweets we collected to be in English. To minimize loss of data due to technical errors, we ran multiple searches in parallel using the same keywords and subsequently combined the results from all searches, deleting duplicate messages we identified based on the unique identification number that Twitter assigns to each tweet when it is published.

2 The first tweet in our collection was posted at 23:27 Paris time on 13 November 2015, about two hours after the reported occurrence of the first bombing. The last tweet was posted a few seconds before midnight on 18 November 2015.

3 As readers may note, excluding retweets left us with a relatively smaller number of tweets containing #PrayforSyria compared with #PrayforParis than in the original collection. This is because, as we see below, the tweets about Syria were substantially more likely to be retweeted than those about Paris.



ings. To guarantee reliability in our coding, we extracted random samples of tweets, and ensured that they contained an equal proportion of #PrayforParis and #PrayforSyria tweets, and each coder coded them independently. We ran four iterations of this procedure ( $N = 100$  tweets in the first two rounds,  $N = 50$  in the last two rounds), excluding in each round the variables for which we had achieved satisfactory reliability scores (which we report in the appendix).<sup>4</sup> We excluded two variables from the original coding framework—the main purpose of the tweet and whether the tweet contained references to solidarity—because we did not achieve satisfactory reliability scores even after four iterations.

4. We then generated a random sample ( $N = 4,500$ ) that included an equal number of tweets from each corpora and coded it according to our finalized coding framework. We did not code 152 tweets that we identified as spam.
  - a) We ran univariate, bivariate and multivariate quantitative analyses on the dataset combining the variables we coded and some of the meta-data obtained from Twitter.
  - b) We tested inferences derived from our quantitative analysis against small samples of relevant tweets.

Our coding framework (see appendix) covered (A) type of actor, (B) location of actor, (C) type of tweet, (D) type of content shared, (E) attacks mentioned (Paris, Syria, or elsewhere), (F) topics mentioned (migration, foreign policy, terrorists, religion, mainstream media, social media, justice and fairness, and universalism) and (G) agonism and antagonism. It was designed to identify the presence of agonism and antagonism and their associations with who is tweeting, how, and about what. We also gathered data on the numbers of friends and followers of each user in our sample and the retweet volume of each tweet.

Given the exploratory nature of our research and the granularity of the concepts we wanted to measure, we relied on human coding not computational methods. Dictionary-based methods would have been very difficult to employ,

---

4 To assess our intercoder reliability, we used two indices: Krippendorff's alpha and average percent pairwise agreement. Given the exploratory nature of our research, we accepted as reliable the variables that achieved Krippendorff's alpha scores equal to or higher than .667 (as suggested by Krippendorff 2004). For some dichotomous variables with heavily skewed distributions, we followed Bennett, Foot and Zenos (2011) and relied on percent agreement because in these instances measures such as Krippendorff's alpha tend to underestimate intercoder reliability (see Neuendorf 2002). In those instances, we treated variables where we had achieved percent agreement of 90% or above as reliably coded.

given the complexity of these topics and the fact that our goal was to compare two different conversations that, as we show, centered on different topics. Although using machine-learning techniques was a possibility for textual analysis, many tweets contained images and/or links to external websites, which we included in our content analysis and which would have been very difficult to train a computational tool to automatically analyze (for an overview of these methodologies, see Ampofo et al., 2015).

### **Analysis 1: Overall Differences Between Tweets Mentioning Paris and Syria**

We begin our analysis by comparing tweets mentioning the Paris and the Syria attacks in terms of their sources, contents and network diffusion. A total of 2,639 tweets (61% of the 4,348 we coded) mentioned Paris, while 2,164 (50%) mentioned Syria.

As table 1 shows, users in Europe and North America constituted the source of most of the tweets for which we were able to identify a location, this is unsurprising, given the western-centric geographical spread of Twitter users in general.<sup>5</sup> European and North American users referenced the Paris attacks more frequently, while users in Middle East and North Africa, South Asia and elsewhere in Asia, though less numerous in our dataset, tweeted more frequently about Syria. About two-thirds of tweets were posted by members of the public, and those users were more likely to mention the Paris attacks than the Syria attacks. However, we found—albeit in small numbers—that mainstream media, NGOs, religious authorities, celebrity and commercial accounts were more likely to tweet about Paris, while activist-bloggers tweeted more about Syria.

Table 2 shows further descriptive statistics on the content and the diffusion networks of tweets that mention Paris and Syria. In both cases, the tweets were more likely to be textual than visual, but about one-fifth of tweets contained images. Tweets about Paris were twice as likely (18% versus 9%) than tweets about Syria to include links to other social media content. Screenshots of visual tweets combining the Eiffel Tower with a peace symbol were popular; these were shared directly via Twitter or through a link to an image-sharing social network (Instagram).

---

5 A large percentage of tweets was coded as “unclear” because users either did not write any content in the “location” field of their Twitter profiles or they did not provide sufficient information to identify their location.

TABLE 1 *Location and types of actors posting tweets about Paris and Syria*

<b>Location of source</b>	<b>Paris (in %)</b>	<b>Syria (in %)</b>	<b>% of sample</b>
Europe	80	27	17
North America	70	39	12
Other Asia	48	60	7
South Asia (India, Pakistan, Sri Lanka, Nepal)	34	79	5
Middle East and North Africa	49	64	2
Other Africa	63	48	2
South America	70	44	1
Australasia	71	33	1
Unclear	57	55	52
<b>Type of actor</b>	<b>Paris (in %)</b>	<b>Syria (in %)</b>	<b>% of sample</b>
Member of the public	61	49	67
Alternative media / blogger / citizen journalist / activist account	51	63	5
Commercial / business account	89	16	4
Celebrity	69	37	1
Mainstream media corporate account	78	44	>1
Mainstream media personal/journalist account	78	22	>1
Pundit / opinion-writer	60	40	>1
National or international politician, policymaker or public official	75	25	>1
Local police / intelligence	50	50	>1
Expert (academic, think tank, retired police etc.)	100	0	>1
Non-Governmental Organization or charity representative	85	31	>1
Religious authority	92	15	>1
Other	67	33	>1
Unclear	55	56	22

TABLE 2 *Types of content shared, topics mentioned, degrees of antagonism and agonism, and the network size of tweets about Paris and Syria*

Type of content shared	Paris (%)	Syria (%)	All tweets (%)
Only text	53	67	59
Images	23	20	22
Other social media	18	9	14
Other websites	5	3	4
Mainstream media	1	1	1
Topics mentioned	Paris (%)	Syria (%)	All tweets (%)
Universalism	19	18	17
Justice and fairness	8	27	15
Foreign policy	7	28	15
Terrorists	5	9	6
Religion	6	6	6
Social media	3	5	4
Mainstream media	2	4	2
Migration	1	3	2
Agonism and antagonism	Paris (%)	Syria (%)	All tweets (%)
Agonistic	14	41	24
Antagonistic	2	4	3
Event in focus	Paris	Syria	All tweets
Mean retweets	2.96	31.84	17.21
Median retweets	0	0	0
Mean followers	4751	3553	4373
Median followers	283	374	317
Mean following	1102	1317	1198
Median following	312	338	318

Universalism was the most frequently mentioned topic across the whole dataset; it was present in Paris and Syria tweets equally. However, there were striking differences in the extent to which those who posted about the two conflicts mentioned foreign policy and justice and fairness; on this topic there were three to four times more tweets about Syria than Paris. Tweets about Syria were also more likely, in smaller numbers, to mention mainstream media, migration and terrorism. The eight topics were entirely absent in 62% of tweets mentioning Paris, but only 33% of tweets mentioning Syria. This indicates that the tweets about Syria were substantially more political than those about Paris. In those about Paris, a majority were not relevant to any of the topics we are interested in here. Most of the Paris tweets that we coded as 0 in the topic categories feature expressions of solidarity and generic statements of feeling shocked or scared.

Therefore, our first hypothesis was not supported here: The low occurrence of mentions of media, migration and terrorism suggests that the cycle of insecurity we expected to find was absent from discussions about Paris (only present in 7% of tweets) and was not particularly visible in those about Syria either (15%). Users discussing Syria were concerned that France responded to the Paris attacks by intensifying its aerial military interventions in Syria. Users complained that the attacks on Paris received disproportionate attention from mainstream media, these views were often expressed by sharing the image presented in figure 2.

In figure 2 we find a number of elements: attention to conflict in regions beyond Paris or Syria; foreign policy in the form of bombs falling from the sky; and world media directing attention exclusively on Paris, with the hands conveying a sense of human agency and culpability for this decision.

Tweets about Syria were more likely to be to either antagonistic or, by a substantial margin (41% to 14%), agonistic than those about Paris. After the coding, with only 129 antagonistic tweets, it was possible to read them as a sub-corpus. We found that these 129 fell into groups: anti-Muslim tweets, most often from North America ('Lots of *taqiyya* [Sharia-approved lying] over on the #PrayForSyria hashtag. Newsflash: The West doesn't fucking care about you primitive savages anymore. '); anti-racist tweets ('Racist pigs die #PrayforSyria'); and users objecting to others posting #PrayforParis on the grounds that France is a secular nation and it was religiosity that drove the terrorists ('I wish people would stop using #PrayforParis—praying to some imaginary psychopath in the sky is the exact cause of this tragedy.'). While antagonistic tweets were the exception among all types of actors, tweets by activist-bloggers were most likely to be antagonistic (7.1%). The biographies of these antagonistic activist-bloggers contained hashtags such as #ObamaLiedFrenchDied,

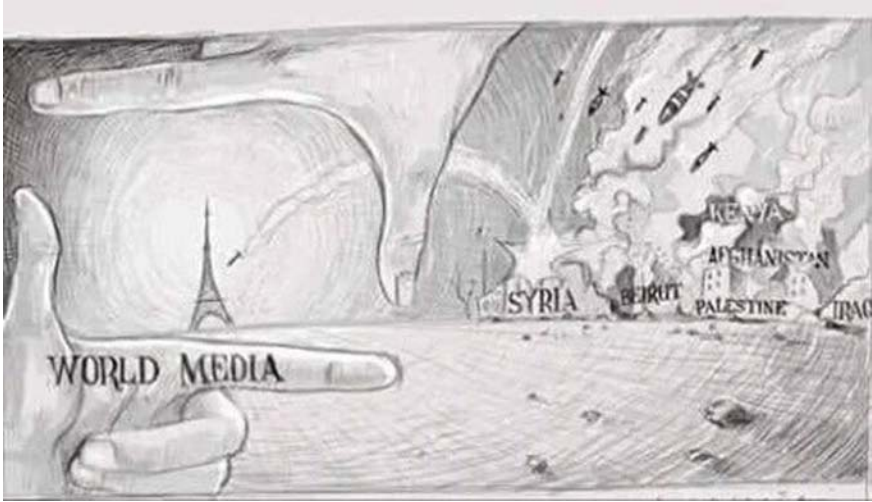


FIGURE 2 *World media framing of Paris* (artist Lee Marej)<sup>6</sup>

#MakeAmericaGreatAgain, #ISaluteWhitePeople and #ShiaGeonicide [sic]. However, given the relatively small number of activist-bloggers, most antagonistic tweets came from members of the public. There were far more agonistic tweets.

Tweets about Syria received, on average, substantially more retweets than those about Paris. However, as the medians in table 2 show, more than half of those tweets were not retweeted—to be more precise, 77% of tweets about Paris and 68% of those mentioning Syria. We also found different network characteristics in tweets about Paris and Syria. Users tweeting about Syria were more evenly balanced between the number of accounts following them and the number of accounts they followed (on average, 3,553 followers to 1,317 accounts followed) than users tweeting about Paris (mean of 4,751 to 1,101). However, these differences largely cancel out if we look at median values, where those who tweeted about Syria had more followers (374 versus 283) than those who tweeted about Paris. Given that we know Paris tweets were retweeted less, we can characterize the conversation about Paris as a broad exchange, with a wide reach and potential audience, but less retweeting intensity. The conversation about Syria was more close-knit, with a more even distribution of followers and followed, and more retweeting intensity.

6 Few mainstream or social media users credited this artist, rather they shared the image with no attribution. The original can be found at: <http://leemarejlu.wix.com/leemarej>.

### Analysis 2: Patterns of Agonism and Antagonism

The conversation about Syria was more argumentative than that about Paris in terms of antagonism and, especially, agonism. We examine these patterns more systematically by looking at the correlations across all the content variables we measured, which we show in table 3. The correlations range from  $-1$ , which represents a perfect negative association, to  $+1$ , which represents a perfect positive association. For practical purposes, we focus only on coefficients that are higher than  $.1$  or lower than  $-.1$  and that are statistically significant. This provides a good indicator of the strength of the association between two variables, that is, how likely it was that tweets featuring topic A also featured topic B.

The correlations in table 3 point to a number of important patterns. First, tweets are far more likely to be agonistic on all topics *except* when mentioning universalism (the association with social media is also weak). In other words, to the extent that the tweets mentioned almost all of the political issues we coded, they were also likely to do so in argumentative fashion. Across the sample, users were more likely to be antagonistic only when tweeting about foreign policy, particularly users supporting French attacks on Syria, for example: ‘DON’T #PrayForSyria “If a spider bites you and runs away into a nest of spiders, how do you tell the spiders apart? DOESN’T MATTER!!”’ They were also more likely to be agonistic when discussing Syria, migration, foreign policy, religion, mainstream media, and justice and fairness.

This picture is reinforced by other clear associations. Discussion of mainstream media is strongly associated with migration and justice and fairness. This indicates criticism of journalists in their coverage of migrants and their focus on certain conflicts but not others. We also find a clear association between the mention of religion and terrorists. This was constituted by references to the religiosity of those who perpetrated the Paris attacks. Users either inferred an Islamic motivation or expressed a desire that not all Muslims be implicated in the actions of a few. However, regarding hypothesis one and the conflation of media, migration and terrorism, the numbers of these tweets are too small a proportion of the dataset to suggest that these narratives were as widespread as we expected. Far greater numbers of tweets linked foreign policy with terrorism and justice and fairness.

When users discussed the French air strikes on Syria, universalism was far less likely to be expressed in discussions of foreign policy. Figure 3 below captures this sentiment.

There was significant anger at the French government for launching air strikes in response to the attacks. Many users posted statements along the lines

TABLE 3 *Bivariate correlations among different types of contents of the tweets*

	Migration	Foreign policy	Terrorists	Religion	Mainstream media	Social media	Justice, fairness	Universalism	Antagonistic	Agonistic
Migration	1	0.004	.079**	0.019	.103**	-0.015	-0.003	-0.014	-0.010	.119**
Foreign policy		1	.179**	-.034*	0.011	-0.027	.291**	-.082**	.115**	.519**
Terrorists			1	.222**	0.028	0.008	-0.014	-0.023	.072**	.261**
Religion				1	.031*	-0.012	-0.004	-.057**	.049**	.176**
Mainstream media					1	.042**	.117**	-0.003	-0.016	.145**
Social media						1	.040**	-.070**	0.005	.082**
Justice, fairness							1	-.066**	0.006	.453**
Universalism								1	-.054**	-.065**
Antagonistic									1	-.071**
Agonistic										1

Note: cell entries are Pearson's point-biserial correlations coefficients for dichotomous variables

\*\* correlation is significant at  $p \leq .01$

\* correlation is significant at  $p \leq .05$





FIGURE 3 A bomb inscribed with 'From Paris with Love'<sup>7</sup>

of 'do not respond to violence with violence' or 'do not fight fire with fire'. Ultimately, the three strongest positive correlations in the entire dataset demonstrate that high agonism was constituted by statements about French foreign policy (.519\*\*) and justice and fairness (.453\*\*), and those two topics, as we saw, were also strongly correlated with one another (.291\*\*). We have also seen that tweets about Syria were substantially more likely to be antagonistic. Taken together, these findings suggest that the most compelling evidence we found for a cycle of insecurity relates to insecurity generated by western foreign policy rather than with insecurity deriving from Islamic terrorism.

Antagonistic tweets received a low mean of 3.22 retweets compared to a 17.3 retweet average for all tweets, but there was a noticeable difference between antagonistic tweets mentioning Paris, which had an average of 5.21 retweets, and antagonistic tweets mentioning Syria, which had an average of 3.74 retweets. In contrast, tweets that were agonistic received, on average, 13.1 retweets, but the difference between antagonistic tweets mentioning Paris and

7 This image was also shared without attribution or license. News reports labeled it 'photo-shopped' and did not credit any photographer.

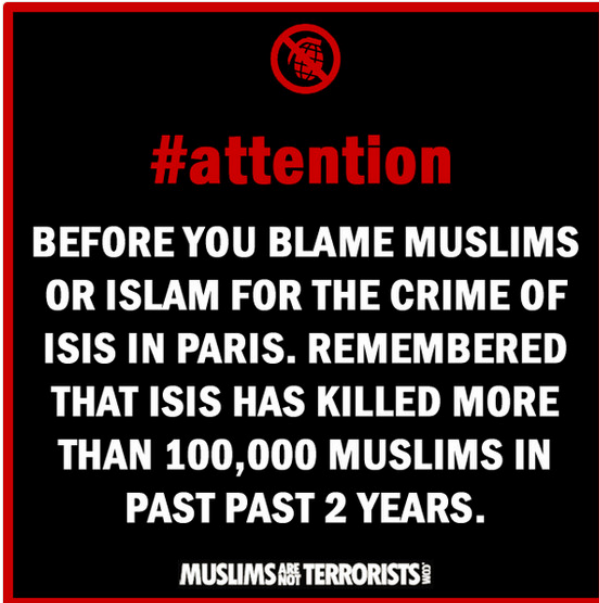


FIGURE 4 *Graphic in a Farhan Khan Kirk agonistic tweet of 16 November 2015*

Syria was striking: while agonistic tweets about Paris were retweeted on average 4.45 times, agonistic tweets about Syria had on average 14.93 retweets. Agonistic tweets were often retweets and commented retweets of high profile critics of French foreign policy toward Syria, such as Farhan Khan Kirk. Kirk describes himself in his Twitter biography as a blogger and social media activist. He has over 100,000 followers and regularly posts graphics that articulate a policy critique, such as figure 4. Kirk accompanied this graphic with the statement, '#PrayForSyria Our enemy is not any religion; Our enemies are Corporates, The imperialists, The economic hitmen'. This was retweeted 400 times.

Responding to hypothesis two, this analysis suggests that antagonistic tweets do not attract retweets and drive conversations. However, whether a tweet is retweeted is more than simply a matter of whether it is agonistic or antagonistic. It also depends on what topics it addresses, the content it conveys, how many followers its source has, and so forth. Only multivariate analysis can disentangle the role of these different factors, which we address in the next section.

### Analysis 3: Do Agonism and Antagonism Drive Retweeting, and What Else Does?

Table 4 shows the results of negative binomial regressions that predict the number of retweets obtained by each tweet in our dataset as a function of several independent variables. A negative binomial model is the most appropriate for the kind of data we are dealing with here, as the dependent variable is a count (the number of retweets) with very dispersed values and significant number of os, as highlighted earlier. We have built three different models: a first model with no interaction and two other models in which we added interaction terms to capture different facets of the phenomena we are interested in and expand the analyses presented so far.

In Model 1, the dependent variable is estimated as a function of the type of tweet (differentiating between simple tweets, replies, and commented retweets, with all other tweets serving as a reference category), the number of followers of the account at the time the tweet was posted (which we logged because its distribution was highly skewed), the type of content shared (with text-only tweets serving as a reference category), what attacks were mentioned by the tweet, what topics were mentioned, and whether it was antagonistic or agonistic. Results from Model 1 show that *more* retweets were likely from a straight tweet, by a user with more followers, in a tweet containing images, and which is about Syria.

Second, *more* retweets were likely if a user mentioned religion and if the tweet was antagonistic. Such tweets contained statements along the lines of: Who are these monsters that did this? God will punish them. Or, why are you idiots praying, we are secular in France. Third, tweets were significantly *less* likely to be retweeted if they mentioned Paris, migration, the mainstream media, or social media. The latter tweets included those complaining about users only acting on social media or calling for prayers when 'real' action was needed instead. These kinds of criticisms of other users were substantially unlikely to be shared by the users themselves.

Model 2 builds on Model 1 by adding interaction terms that differentiate between tweets mentioning Paris and Syria with respect to the content features we coded. Given that we found important differences in the topics and levels of agonism and antagonism of tweets pertaining to those two different conversations (see table 2), did such differences in content also predict differences in the number of times a tweet was retweeted? The coefficients for the interaction terms show that tweets about migration, those discussing universalism, and those that mentioned the mainstream media were less likely to be retweeted when they were about Syria than when they were about Paris. By contrast,

tweets about religion were significantly more likely to be retweeted when they mentioned Paris than when they mentioned Syria. This often involved users wishing to spread the idea that 'Muslims are not terrorists' after the Paris attacks. Tweets about social media show an interesting contrasting dynamic: if they mentioned Paris, they were significantly more likely to be retweeted than if they mentioned Syria, but if they mentioned Syria they were significantly less likely to be retweeted than the average tweet.

Users discussing Paris were more likely to share messages that contained meta-communication about the role and use of social media, for instance, to promote symbolic action such as coordinated online silence or the propagation of images expressing solidarity, which elicited more retweets. The contrary was true for users discussing Syria, where discussions of social media were more likely to be centered on social media users' low interest in the plight of the Syrian people compared with the atrocities in Paris and elsewhere in the West, and these tweets were less likely to be retweeted. Interestingly, Model 2 also confirms that antagonistic tweets, albeit less numerous than agonistic ones in our sample, were more likely to be retweeted, but only if they were about Paris. Although tweets about Syria were generally more retweeted than those about Paris, *ceteris paribus*, antagonistic tweets about Paris received a greater marginal boost of retweets than antagonistic tweets mentioning Syria. This may be because of their rarity, or, on qualitative inspection, because they were retweeted frequently within tighter (North American) far right networks (see analysis 1 above).

Finally, Model 3 also builds on Model 1 by adding four interaction terms that allow us to estimate whether tweets augmenting the moral cycle of insecurity and panic are more or less likely to be retweeted. With this set-up, the coefficient for 'migration  $\times$  terrorists', for instance, allows us to estimate how many retweets a tweet that features both migration and terrorists is predicted to achieve compared to a tweet that only features one of these two topics (while the coefficients for individual topics still capture the estimated number of retweets deriving from the presence of such topics). As can be seen from the last two columns of table 4, tweets mentioning migration and terrorists, migration and mainstream media, and terrorists and mainstream media did *not* receive a significantly different number of retweets than tweets that only mentioned one of those topics. However, the fact that the coefficient for the three-way interaction between migration, terrorists, and mainstream media is positive and significant suggests that the conflation of those three topics, even if it only happened in a limited number of tweets, elicited a higher number of retweets than tweets mentioning only one and two of the issues comprising the cycle of insecurity. Thus, although we found that discussions of those

issues were too limited to claim that this cycle narrative emerged with the intensity we had expected, the evidence suggests that, even if the conflation of these topics did not happen frequently, when it did happen, it was met by a noticeable user response in terms of the number of times those tweets were retweeted.

TABLE 4 *Dependent variable: number of retweets*

	Model 1		Model 2		Model 3	
	B	Std. Error	B	Std. Error	B	Std. Error
<u>Type of tweet</u>						
Tweet	1.703*	.813	1.676*	.802	1.683*	.818
Commented tweet	.698	.846	.678	.835	.687	.852
Reply	.460	.958	.500	.945	.440	.963
Account followers (logged)	.717***	.054	.711***	.048	.717***	.054
<u>Type of content shared</u>						
Mainstream media	-.702	.492	-.604	.473	-.753	.497
Other websites	-.172	.646	-.160	.641	-.166	.648
Social media	-.404	.212	-.354	.219	-.421*	.213
Images	2.447***	.318	2.365***	.268	2.452***	.317
<u>Attacks mentioned</u>						
Paris	-.611**	.222	-.1114*	.447	-.617**	.223
Syria	.749***	.228	.600**	.203	.745***	.227
Elsewhere	.442	.229	.316	.226	.440	.229
<u>Issues mentioned in the tweet</u>						
Migration	-1.376*	.543	-1.519**	.538	-1.501*	.606
Migration (Paris)	-	-	.566	1.277	-	-
Foreign policy	-.209	.237	-.044	.260	-.236	.239
Foreign policy (Paris)	-	-	-.421	.399	-	-
Terrorists	-.220	.248	-.328	.261	-.220	.253
Terrorists (Paris)	-	-	.152	.515	-	-
Religion	.772**	.295	-.606	.323	.774**	.295
Religion (Paris)	-	-	1.824***	.512	-	-
Mainstream media	-.951**	.315	-.921*	.376	-1.021**	.330

TABLE 4 *Dependent variable: number of retweets (cont.)*

	Model 1		Model 2		Model 3	
	B	Std. Error	B	Std. Error	B	Std. Error
Mainstream media (Paris)	–	–	.146	.568	–	–
Social media	–1.210***	.264	–1.873***	.391	–1.189***	.265
Social media (Paris)	–	–	1.241*	.490	–	–
Justice and fairness	.148	.222	.049	.260	.145	.223
Justice and fairness (Paris)	–	–	.251	.375	–	–
Universalism	–.319	.194	–.663*	.337	–.329	.195
Universalism (Paris)	–	–	.649	.375	–	–
<u>Cycle of fear associations</u>						
Migration × Terrorists	–	–	–	–	–1.342	.818
Migration × Mainstream media	–	–	–	–	.664	1.420
Mainstream media × Terrorists	–	–	–	–	–1.562	.898
Migration × Mainstream media × Terrorists	–	–	–	–	4.547*	2.185
<u>Rhetorical scope (?) of the tweet</u>						
Agonistic	.265	.163	.103	.237	.283	.161
Agonistic (Paris)	–	–	.277	.345	–	–
Antagonistic	1.142**	.443	.136	.476	1.154**	.444
Antagonistic (Paris)	–	–	1.659*	.782	–	–
Intercept	–6.486***	.858	–6.039***	.837	–6.458***	.861
Chi square	30842.43		25694.95		3043.57	
Log likelihood	–5131.81		–5108.02		–513.07	

Note: N=4294. Cell entries are unstandardized coefficients for negative binomial regressions. \*\*\* $p \leq .001$   
 \*\* $p \leq .01$  \* $p \leq .05$

## Conclusions

Our examination of tweets containing #PrayforParis and #PrayforSyria in the aftermath of the November 2015 Paris attacks involved operationalizing complex and fuzzy concepts from political and social theory like justice, universalism, agonism and antagonism; this enabled us to explain the dynamics of these Twitter conversations. Our aim was to identify and explain the main differences in the contents, sources, and diffusion networks of the tweets about the Paris and Syria attacks.

First, we hypothesized that agonism and antagonism would be driven by a conflation of the topics (media, migration and terrorism) and, second, that antagonism is associated with retweet volumes. In analysis 1 and 2 we found little conflation of media, migration and terrorism—instead, users discussed Syria, foreign policy, and justice and fairness. We found antagonism in relatively few tweets, but that agonism and antagonism occurred more frequently in the discussion about Syria. Analysis 3 showed that the likely retweet rate of tweets was not just a matter of whether they were agonistic or antagonistic, but accounted for other aspects of the tweet, user and network. Again, we made small but interesting findings.

While there are more retweets about Syria, an antagonistic tweet about Paris was relatively likely to be retweeted more. This points to important network characteristics among those tweeting aggressively about Paris and the need for revenge, or those furious about French air strikes on Syria. Similarly, the conflation of media, migration and terrorism was infrequent but when it did occur, retweets were high.

What can we conclude? The Twitter conversations around #PrayforParis and #PrayforSyria cannot be reduced either to the contestation of global attention or a media-driven cycle of insecurity. Tweets about social or mainstream media were not widely shared and links to news were rare. Universalism was the most frequently mentioned theme. Users around the world engaged on all topics we analyzed to some degree. Antagonism occurred only in small networks within and across the two hashtag conversations. In fact, the high degree of agonistic and non-visual tweets, particularly about Syria, suggests a robust exchange of claims and counter-claims. This is hardly a dystopian narrative of Twitter as a space of superficial memes and anonymous hate.

This study, we argue, opens up avenues by which to consider practices of political communication, not only concerning Paris and Syria, Europe and the Middle East, but also regarding how transnational connectivity functions around major events that involve conflict and suffering. We suggest that research must explain how visual communication can have strategic effects.

As we showed in analysis 3, visual tweets receive more retweets, in particular if they concern injustice or malign the consequences of foreign policy. Users share photographs of victims: dead children or children crying over their dead parents, crying but mute to us, figures of absolute vulnerability because they lack all agency. Users describe 'looking at those children ... made me cry'. We experience not terror—an urge to flee—but horror: paralysis, repugnance, and isolation before the text (Cavarero 2011). We see bodies dismembered by bombs: the destruction of a person's figural unity. What is the political strategy in sharing these photographs and eliciting horror? Is it to remind us that every day people do horrible things (Sontag 2003); that our government's bombing has horrible effects? Is the strategy to provoke questions rather than close reflection down? If so, the high degree of agonism present in these tweets suggests that the strategy worked.

Second, we must think through ethical questions about what constitutes adequate or proper understanding of distant others' lives for us to respond as citizens. We must examine the problems of how ethics work in a global digital ecology and what Floridi labels the declining 'right to ignore' (Floridi 2014: 42). In some cases, thanks to smartphone video, tweets allow us to hear survivors tell their stories and perhaps sense their full personhood. In the telling of their story, the survivors move from being a generic category, a *what* (potential migrants or terrorists to some, as we saw in antagonistic tweets) to a specific person, a *who*; their lives are narratable on their own terms (Cavarero 2000). But does this give global audiences a different relationship to the event? Given that these children are never named, will audiences ever hear from that specific child again and hear the rest of their story? Does a 'whole' story require a mix of biography and autobiography, and thus a traditional journalist to narrate the name and context, and conduct follow-up interviews months and years later? If so, then the absence of links to mainstream media in our sample suggests that this does not occur on Twitter. Furthermore, the children themselves do not have control over their own representation. Do they even know their testimony is being shared on Twitter? Who checks whether the subtitles are accurate? Does their individuality matter at all, or are their videos only shared by Twitter users because their situation is taken to be typical, representing a collective suffering, metonymic both for individuals not in the frame and for the entire social body, tied to the label 'Syrians' (cf. Gürsel 2016)?

Building on these observations and questions, we must confront the ethical dimensions of our methodological choices. There may have been fewer #PrayforSyria tweets because of lower Internet penetration in North Africa and Middle Eastern countries, yet the sentiments expressed therein may have been present via other mediums. A single-medium study necessarily omits the wider



media ecology within which political claims are expressed and therefore those claims are absent from public scholarship. It also neglects how dynamics on that medium interact with dynamics on others, for instance how #PrayforSyria may have moved through broadsheet newspapers, Facebook and face-to-face conversations before reaching Twitter. Researchers must devise multi-method designs to capture these dynamics if the full richness of agonism, antagonism and the political are to be captured and explained.

## References

- Ampofo, L., S. Collister, B. O'Loughlin and A. Chadwick, A. (2015). Text Mining and Social Media: When Quantitative Meets Qualitative and Software Meets People. In Peter Halfpenny and Rob Proctor (eds.), *Innovations in Digital Research Methods*, 161–191. London, Sage.
- Barnett, C. (2003). *Culture and Democracy: Media, Space and Representation*. Edinburgh: Edinburgh University Press.
- Bennett, W.L., K. Foot and M. Xenos (2011). Narratives and Network Organization: A Comparison of Fair Trade Systems in Two Nations. *Journal of Communication* 61(2): 219–245.
- Berger, J. (2011). Arousal Increases Social Transmission of Information. *Psychological Science* 22(7): 891–893.
- Berger, J. and K.L. Milkman (2012). What Makes Online Content Viral? *Journal of Marketing Research* 49(2): 192–205.
- Berry, M., I. Garcia-Blanco and K. Moore (2015). *Press Coverage of the Refugee and Migrant Crisis in the EU: A Content Analysis of Five European Countries*. Report Prepared for the United Nations High Commission for Refugees. Available online: [www.unhcr.org/56bb369c9.pdf](http://www.unhcr.org/56bb369c9.pdf). Accessed 25 July 2016.
- Boltanski, L. (1999). *Distant Suffering: Morality, Media and Politics*. Cambridge: Cambridge University Press.
- Burnap, P. and M.L. Williams (2016). Us and Them: Identifying Cyber Hate on Twitter across Multiple Protected Characteristics. *EPJ Data Science* 5(1): 1–15.
- Cavarero, A. (2000). *Relating Narratives: Storytelling and Selfhood*, London and New York: Routledge.
- Cavarero, A. (2011). *Horrorism: Naming Contemporary Violence*. New York: Columbia University Press.
- Cohen S. (1972). *Folk Devils and Moral Panics*. Oxford: Blackwell.
- Crilly, R. (2016). The Visual Politics of Legitimation in the Digital Age: The Cases of the British Army and the Syrian Opposition. PhD thesis, University of Birmingham.
- Dewey, C. (2016). #StopIslam Twitter-Trended for All the Right Reasons. *Washington*

- Post*, 22 March 2016. Available online: [https://www.washingtonpost.com/news/the-intersect/wp/2016/03/22/stopislam-twitter-trended-for-all-the-right-reasons/?utm\\_term=.4062728e824b](https://www.washingtonpost.com/news/the-intersect/wp/2016/03/22/stopislam-twitter-trended-for-all-the-right-reasons/?utm_term=.4062728e824b). Accessed 23 May 2017.
- Florida, L. (2014). *The Fourth Revolution: How the Infosphere is Reshaping Human Reality*. Oxford: Oxford University Press.
- Freelon, D., C.D. McIlwain and M.D. Clark (2016). *Beyond the Hashtags: #Ferguson, #Blacklivesmatter, and the Online Struggle for Offline Justice*. Centre for Media & Social Impact, American University, Washington, DC. Available online: <http://www.cmsimpact.org/blmreport>. Accessed 22 November 2016.
- Gerbaudo, P. (2016). Constructing Public Space| Rousing the Facebook Crowd: Digital Enthusiasm and Emotional Contagion in the 2011 Protests in Egypt and Spain. *International Journal of Communication* 10: 254–273.
- Gürsel, Z.D. (2016). *Image Brokers: Visualizing World News in the Age of Digital Circulation*. Oakland: University of California Press.
- Hall S., C. Critcher, T. Jefferson, C. Clarke and B. Roberts (1978). *Policing the Crisis: Mugging, the State and Law and Order*. London: Macmillan.
- Hansen, L.K., A. Arvidsson, F.Å. Nielsen, E. Colleoni, and M. Etter (2011). Good Friends, Bad News-Affect and Virality in Twitter. In *Future Information Technology*, 34–43. Berlin Heidelberg: Springer.
- Laclau, E., and C. Mouffe (1985). *Hegemony and Socialist Strategy: Towards a Radical Democratic Politics*. London: Verso.
- Krippendorff, K. (2004). *Content Analysis: An Introduction to Its Methodology*. Thousand Oaks, CA: Sage.
- Meraz, S. and Z. Papacharissi (2013). Networked Gatekeeping and Networked Framing on# Egypt. *International Journal of Press/Politics* 18(2): 138–166.
- Miller, Vincent (2012). A Crisis of Presence: On-line Culture and Being in the World. *Space and Polity* 16(3): 265–285.
- Mouffe, C. (1992a). Preface: Democratic Politics Today. In Chantal Mouffe (ed.), *Dimensions of Radical Democracy: Pluralism, Citizenship, Community*, 1–14. London: Verso.
- Mouffe, C. (1992b). Democratic Citizenship and the Political Community. In Chantal Mouffe (ed.), *Dimensions of Radical Democracy: Pluralism, Citizenship, Community*. London: Verso, 225–239.
- Mouffe, C. (1993). *The Return of the Political*. London: Verso.
- Mouffe, C. (2000). *The Democratic Paradox*. London: Verso.
- Neuendorf, K.A. (2002). *The Content Analysis Guidebook*. Thousand Oaks, CA: Sage Publications.
- Poynting, S., G. Noble, P. Tabar and J. Collins (2004). *Bin Laden in the Suburbs*. Sydney: Sydney Institute of Criminology.
- Schmitt, C. (1976). *The Concept of the Political*. Trans. George Schwab. New Brunswick, NJ: Rutgers University Press.

- Sontag, S. (2003). *Regarding the Pain of Others*. New York: Farrar, Straus, and Giroux.
- Warner, M. (2002). Publics and Counterpublics. *Public Culture* 14(1), 49–90.
- Williams, M.L. and P. Burnap (2015). Cyberhate on Social Media in the Aftermath of Woolwich: A Case Study in Computational Criminology and Big Data. *British Journal of Criminology* 56(2): 211–238.

### Appendix: Code Frame and Intercoder Reliability Scores

(A) TYPE OF ACTOR (Krippendorff's alpha = .692, achieved at 3rd iteration)

1. Mainstream media corporate account
2. Mainstream media personal / journalist account
3. Alternative media / blogger / citizen journalist account
4. Pundit / opinion-writer
5. National or international politician, policymaker or public official
6. Local police / intelligence
7. Expert (academic, think tank, retired police, etc.)
8. Non-Governmental Organization (NGO) or charity representative
9. Religious authority
10. Member of the public
11. Bot
12. Unclear
13. Account no longer available
14. Other

(B) LOCATION OF ACTOR (identified solely on the basis of the 'location' information provided by users in their Twitter profile; no reliability tests were conducted for this variable as it simply involves converting geographical information).

1. Europe
2. Middle East
3. Africa
4. North America
5. South America
6. Asia
7. Australasia
8. Unclear

(C) TYPES OF TWEET (Krippendorff's alpha = .721, achieved at 2nd iteration)

1. Tweet—no user mentions and not a RT
2. Retweet (RT)
3. Modified tweet (MT)
4. Reply (@ mention)
5. Other / unclear

(D) TYPE OF CONTENT SHARED (Krippendorff's alpha = .810, achieved at 2nd iteration)

1. Mainstream media
2. Other websites
3. Other social media
4. Images
5. Only text

(E) ATTACKS MENTIONED (all coded as Yes/No)

1. Paris (Krippendorff's alpha = .869, achieved at 1st iteration)
2. Syria (Krippendorff's alpha = .961, achieved at 1st iteration)
3. Elsewhere (Krippendorff's alpha = .942, achieved at 3rd iteration)

(F) TOPICS MENTIONED (all coded as Yes/No)

1. Migration (percent agreement = 99 %, achieved at 1st iteration)
2. Foreign policy (Krippendorff's alpha = .671; percent agreement = 94 %, achieved at 1st iteration)
3. Terrorists (percent agreement = 94 %, achieved at 2nd iteration)
4. Religion (Krippendorff's alpha = .692; percent agreement = 96 %, achieved at 2nd iteration)
5. Mainstream media (Krippendorff's alpha = .754; percent agreement = 98 %, achieved at 1st iteration)
6. Social media (percent agreement = 96 %, achieved at 2nd iteration)
7. Justice and fairness (percent agreement = 92 %, achieved at 1st iteration)
8. Universalism (Krippendorff's alpha = .774; percent agreement = 91 %, achieved at 3rd iteration)

(G) AGONISM AND ANTAGONISM (all coded as Yes/No)

1. Is this tweet antagonistic? (percent agreement = 93 %, achieved at 2nd iteration)
2. Is this tweet agonistic? (Krippendorff's alpha = .751; percent agreement = 91 %, achieved at 3rd iteration)