

## ORIGINAL ARTICLE

## Dual Screening the Political: Media Events, Social Media, and Citizen Engagement

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*Dual screening—the complex bundle of practices that involve integrating, and switching across and between, live broadcast media and social media—is now routine for many citizens during important political media events. But do these practices shape political engagement, and if so, why? We devised a unique research design combining a large-scale Twitter dataset and a custom-built panel survey focusing on the broadcast party leaders' debates held during the 2014 European Parliament elections in the United Kingdom. We find that relatively active, “lean-forward” practices, such as commenting live on social media as the debate unfolded, and engaging with conversations via Twitter hashtags, have the strongest and most consistent positive associations with political engagement.*

**Keywords:** Dual Screening, Political Engagement, Television, Social Media, Media Events, Twitter, Hybrid Media System.

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Citizens' engagement with politics is evolving due to the growing popularity of dual screening: the bundle of practices that involve integrating, and switching across and between, live broadcast media and social media, particularly Facebook and Twitter. Dual screening has become widespread across a range of television genres, but it is most significant during what Dayan and Katz (1992) termed “media events”: live broadcasts of culturally resonant ritualistic defining moments in the evolution of a national or transnational community (see also Couldry, Hepp, & Krotz, 2010). Today, the analysis of how audiences experience political media events must incorporate discrete media but also the hybrid articulations and recombinations of media.

Dual screening is an unusual and still emergent set of social practices in which publics combine consumption and commentary during media events, so explaining its significance for political behavior requires methodological innovation. We organized our study around high-profile television- and radio-broadcast U.K. party

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leaders' debates during the U.K. European Parliament elections of 2014. We developed a unique research design that combined: the extraction of a large dataset of political tweets, the identification of a sample of Twitter users whom we recruited to a custom-built, two-wave panel survey, and principal component analysis (PCA) and multivariate regression analysis of the survey responses. We explain how, why, and to what extent the affordances offered by dual screening, particularly the interactions between broadcast media and Twitter, may, in some ways, reconfigure and promote political engagement. We conceptualize political engagement in three distinct senses—discursive, partisan, and civic—and explain how each of these types is shaped by specific bundles of practices that are possible in a dual-screening context.

### The challenge of researching dual screening

Dual screening is a product of recent changes in media systems: the rapid diffusion and social embedding of digital media, but also the surprising adaptation and renewal of television as a medium. It has quickly become an important bundle of practices in entertainment settings, as commercial market research reveals (Google Think Insights, 2012; Nielsen, 2013). However, it is particularly important for understanding totemic political events such as televised candidate debates and high-profile political interviews. These are high-stakes encounters, involving a broadcast media logic-driven sense of anticipation, the discussion of multiple issues and candidate traits in one intensively scrutinized real-time setting, and the emergence of a wide range of possible narratives and interpretations during the event itself. These events are laden with great uncertainty, risk, and drama for politicians, journalists, and publics: the stuff of contemporary democratic politics.

In the context of these complex and rapidly evolving events, today's hyper-accelerated news cycles create greater opportunities for active and strategic intervention, framing, and reframing by a wide array of actors—from elite journalists and campaign staff to committed activists, celebrities, and, of course, lay members of the wider public (Anstead & O'Loughlin, 2011; Chadwick, 2011a, 2011b; Freelon & Karpf, 2015; Kreiss, 2014). While politicians, campaign elites, and professional journalists still exercise significant power, their behavior must now be situated in the context of actors who interface with news-making assemblages as they unfold in real time, using older and newer media logics. The distinctions between the different actor roles proposed by Dayan and Katz (1992) in their analysis of broadcast media events—political actors performing, media actors narrating, and citizens standing by as *relatively* passive spectators with no direct and public means of intervening in meaning-making—do not fully capture hybrid media events.

Scholarly research on dual screening and politics is in its infancy. As of this writing, only a handful of previously published studies exist, almost all of which draw their conclusions from the content analysis of publicly available social media data. The first wave of this prior research unearthed a number of relevant findings (Anstead & O'Loughlin, 2011; Chadwick, 2011a; Gillespie, O'Loughlin, & Proctor, 2013;

Jungherr, 2014; Larsson, 2013; Larsson & Moe, 2012). For example, there are identifiable communities of Twitter discourse around the thematic rhythms of a political broadcast media event. Members of the public often play “lay tutelage” roles: They use social media to explain often quite technical points about opinion polling and policy to those less knowledgeable than themselves. Journalists’ tweets are significant in the structural networks forged by political tweeters, but citizen activists see the value of intervening in real time to shape the narrative frames that they think journalists ought to use to mediate events and that fellow citizens ought to use when learning about the campaign and formulating their opinions. The quantity and quality of information-based user interactions increases substantially during controversial periods in a broadcast. Some users correct, fact check, counterclaim, or identify biases in reporting, drawing in an expanding circle of others.

Giglietto and Silva’s (2014) analysis of a large dataset of tweets related to political talk shows on Italian television revealed the relationships between the different sub-genres in the television text and the levels and styles of Twitter engagement among dual screeners. Lin, Keegan, Margolin, and Lazer’s (2014) study of an even larger (290 million tweet) dataset collected during the 2012 U.S. presidential election campaign found that the unusual conditions of “shared attention” during big news events are associated with reduced levels of interpersonal communication. From a content analysis of the most retweeted tweets during the 2012 U.S. presidential debates, Freelon and Karpf (2015) found that nonelites and what they term “bridging elites” (mainly entertainment celebrities) were just as important in initiating tweets that went viral as were political and journalistic elites.

As should be clear from this brief summary, studies focusing on the content of tweets can offer useful descriptive insights. But such approaches tell us very little about the types of individuals who engage in dual-screening practices, and the implications of these practices for subsequent levels and types of political engagement, particularly where engagement may occur away from social media networks, either in other online or face-to-face settings. Exploring these patterns and effects requires that we go beyond the analysis of publicly available social media data to probe the characteristics, motivations, and informational and political behaviors of those who combine watching, reading, posting, and sharing in different ways. There are limits on the amount we can ever know about how individuals experience and respond to media events from content analysis alone, however large (or small) the datasets may be. Inquiry must go beyond the analysis of social media output, such as status updates and network visualizations, to encompass surveys that reveal how individuals get information about politics from their dual-screening experiences, and the engagement behaviors that may or may not result.

### Theorizing dual screening

Our aim in this study is to locate dual screening’s position in the complex array of enablers and constraints on individuals’ political engagement in a system where

interdependencies between older and newer media logics shape political outcomes. We begin from the perspective that dual screening is an essential aspect of hybrid media events: classic broadcast media events whose significance for media professionals, politicians, and nonelites is being reconfigured by the growth of social media (Chadwick, 2011a, 2013; Freelon & Karpf, 2015).

We theorize dual screening as follows: It is a bundle of practices that involve integrating, and switching across and between, broadcast media and social media. For example, individuals may use social media platforms in a relatively passive way to simply read about a broadcast as it unfolds. They may go one step further and comment on social media about a broadcast. They may also be exposed to information about broadcast events on social media in advance of the broadcast and then switch across to the broadcast when it occurs, even in the middle of a show, after which they put their social media screen to one side.

Dual screening blurs the distinction between “lean-forward” and “lean-back” audience practices. It complicates the relationship between, on the one hand, the *relatively* active, purposive information-seeking and information-production practices classically associated with computer-mediated communication, and, on the other hand, the *relatively* passive, information-reception practices classically associated with broadcast media. In contrast with the media events perspective of Dayan and Katz, today’s media environment provides a more complex mix of affordances that may or may not spur engagement. Individuals can choose, to some extent, what to watch, read, post, and share, even though the resources for these behaviors are derived from both social media *and* mainstream media. In other words, while dual screening blurs the lines between active and passive practices, the key point is that several different combinations, or what we term “bundles” of practices, are possible.

In using the concept of affordances here, we invoke intuitive and established understandings from science and technology studies (Gibson, 1977), the sociology of networks (boyd, 2011; Juris, 2012), and political communication (Chadwick, 2007, 2009). Technological objects—both software and hardware—shape and constrain, though never fully determine, human behavior. The living room television screen has historically been a site around which family members and friends gather for communal spectatorship, as Dayan and Katz’s (1992) account of media events vividly illustrated. The television’s affordances—its relatively large screen and loudspeakers—encourage this. A smartphone is lightweight, comfortable to hold while sitting in an armchair, and has a touch screen interface. These affordances mean that smartphones are more likely to be used for communication and information seeking while watching television than a traditional desktop computer or even a laptop, though they may also be used for simply monitoring the flow of others’ commentary—a practice that our approach can reveal. The Twitter hashtag is an affordance of the Twitter platform’s design that enables individuals to quickly connect with others and form online political networks. Some of these are fleeting and short lived; others are very persistent (Bennett & Segerberg, 2013).

Explaining precisely *what* is being reconfigured as these affordances blend in the context of political media events is a significant challenge. Since no extant academic research has untangled the bundle of dual-screening practices described above, our first and second research questions are as follows:

RQ1: What types of dual-screening practices around a mediated political event are the most popular?

RQ2: What are the sociodemographic and relevant political–behavioral characteristics of those who dual-screen around a mediated political event?

### Theorizing political engagement

Our main focus in this article is on the extent to which the balance of specific media affordances that are mobilized in dual-screening contexts may act as drivers of political engagement, both online *and* offline. In the only extant study to use individual survey responses, using a commercial general audience panel survey, Gil de Zúñiga, Garcia-Perdomo, and McGregor (2015) examined what they term “second screening.” They found that second screening of political television news content is a positive predictor of *online* political engagement, even after controlling for demographic variables and a number of other correlates, such as trust in media and general patterns of news consumption. In their account, second screening was studied as a general practice among a random sample of the population.

We reconfigure, refine, and extend this line of research. We believe it is important to study dual screening as it emerges around specific political media events. We avoid the term “second screening” because we believe that identifying the hierarchy of screens is a matter for empirical investigation. As we will show, our results reveal that individuals’ actual mixing of dual-screening practices is more complex and subtle than a “TV first, social media second” approach allows. Our measures identify and disaggregate what it actually means to dual screen, and we model these practices as independent variables that may shape three different types of political engagement, both online *and* offline. In addition, we designed and deployed our own survey and samples around a specific political media event and the election to which it related. This allows us to base our findings on an authentic high-profile moment of engagement rather than focusing on correlations between generic behaviors measured over arbitrary periods of time.

We theorize our dependent variable—political engagement—in a comparatively rich sense that encompasses the mediated and face-to-face behaviors that occur both during and after a hybrid media event. When building our measures for political engagement, we were keen to identify increases or decreases in both the diversity and the intensity of repertoires of political action, either online or in face-to-face settings, than would otherwise have been the case had an individual not engaged in dual-screening practices around the event.

We build upon three distinct empirical understandings in the previous literature on political engagement (Delli Carpini, Cook, & Jacobs, 2004; Heidar, 2006; Putnam,

Leonardi, & Nanetti, 1994). Following Delli Carpini et al. (2004), we hypothesized that some forms of engagement are *discursive*—they involve formal and informal conversations about public affairs. Following Heidar (2006), we hypothesized that other forms of behavior are distinctively *partisan*—these are activities conducted for, or on behalf of, candidates and political parties. Finally, following Putnam et al. (1994), we hypothesized that a third dimension of engagement could be identified as *civic*: behavior that involves collaboration in communities to solve common problems. We therefore ask:

RQ3: Do those who dual-screen around a mediated political event become more or less politically engaged as a result of their experience, and how does this differ according to the type of political engagement?

It is possible that many individuals, especially those who are relatively uninterested in politics and who would choose not to watch a broadcast of a political debate or directly follow political actors on social media, might instead encounter information about the debate serendipitously, while using social media for other purposes, such as entertainment or catching up with friends. As we summarized above, media events generate high volumes of discussion on social media. Dual screening around these events might increase serendipitous exposure, which in turn might contribute to political engagement. Thus, we ask:

RQ4: Are those who are serendipitously exposed to information about a broadcast media event more or less likely to become politically engaged?

Finally, as we argued above, some dual-screening practices can be characterized as relatively active, such as commenting on the event or engaging in conversations about it. Others are relatively passive, such as simply watching the event or reading other users' commentary about it. We aim to disentangle the implications for political engagement of these practices by answering our final research question, which brings together and provides an integrated test of our theories about dual-screening and political engagement:

RQ5: In the hybrid mix of media affordances and practices involved in the dual-screening context around a mediated political event, which have the strongest relationships with political engagement?

Our method allowed us to stay close to the authentic experiences of individuals as they encountered and responded to what were the biggest scheduled U.K. political media events between the country's 2010 and 2015 general elections: the controversial April 2014 television and radio debates between deputy prime minister and centrist Liberal Democrat party leader Nick Clegg and right-wing U.K. Independence Party (UKIP) leader and Member of the European Parliament Nigel Farage.

## Research design and methods

Live political debates are the ideal broadcast media events and Twitter is the ideal social media environment for recruiting respondents for a project of this kind.

According to U.K. government statistics (OFCOM, 2014), by 2013, 22% of the British population used Twitter, making it the second most popular social networking site in the United Kingdom, after Facebook. Of particular significance for research on dual screening is that 80% of U.K. Twitter users connect to the service through a mobile device and, for 70% of those users, mobile access is their primary mode of usage. By 2014, an extraordinary 60% of U.K. Twitter users reported using the service while watching television (Macmillan, 2014).

### **The #NickvNigel debate**

In the run-up to the 2014 European Parliament elections, Nick Clegg and Nigel Farage debated twice about Britain's role in Europe (a highly controversial issue in U.K. politics)—live on the London radio station, LBC, on 26 March, and live on the BBC's television channel, BBC2, on 2 April. The debates took place before live studio audiences and were hosted by LBC presenter Nick Ferrari and BBC television's David Dimbleby. The television debate was viewed by 1.7 million viewers, a large (9%) audience share for that evening (Johnson, 2014; audience figures for the radio debate are unavailable). There was widespread interest in this aspect of the election in the United Kingdom, in large part due to UKIP's right-wing, anti-immigration insurgency. The debates were intensely followed and discussed on social media.

### **Panel surveys, sampling, and measures**

We designed two custom online surveys and administered them in a two-wave panel study. Cross-sectional data provide only single point-in-time snapshots and may indicate temporary effects. Panels allow us to identify the sequencing of causal mechanisms and deal with the problem of circularity, or what is sometimes termed endogeneity (Frees, 2004). We were able to measure any change in the dependent variables—political engagement—over time and to model using statistical controls for the value of variables measured at Wave 1. Individuals' engagement with politics is usually fairly stable, and the Clegg–Farage debates were self-contained events, so we expected to find that changes in political engagement among our panel respondents would be relatively small and less strongly correlated with dual-screening practices than in the cross-sectional analysis.

Our Wave 1 survey ran for the 3 days immediately following the #NickvNigel television debate of 2 April. Our Wave 2 survey ran 7 weeks later—during the 3 days immediately following the day of the U.K. European Parliament elections. Wave 1 was conducted on a random sample of Twitter users who had posted tweets containing keywords and hashtags related to the debates. Using Twitter's stream application programming interface, we collected tweets containing Clegg's and Farage's names, their Twitter usernames (@Nigel\_Farage, @nick\_clegg) and keywords and relevant hashtags, such as #NickvNigel, #europedebate, #bbcdebate, and various others, some of which emerged organically during the debates.<sup>1</sup> Between 14 March and 3 April (one day after the televised debate), we collected about 453,000 tweets that had been posted by more than 103,000 unique users.

Through an automated script procedure, we used a series of Twitter accounts, whose profile descriptions clearly showed our research purposes, to send invitations to 22,000 unique Twitter users, whom we randomly sampled from the original 103,000, asking them to take our first online survey, which was hosted by Qualtrics. Invitations were sent from 3 April until 5 April; responses were collected until 6 April. Users in our sample were contacted with a tweet that read as follows: “@[username] University research on social media use: can you help by completing a brief survey?”<sup>2</sup>

We received 1,634 completed questionnaires in 3 days—7.5% of the 22,000 Twitter users to whom we sent our original invitations. Respondents took, on average, about 15 minutes to complete our questionnaire. Of these 1,634 respondents, 1,187 provided their Twitter name or e-mail address and agreed to be contacted by us in future. This allowed us to survey these respondents again immediately after election day, for Wave 2.

Our Wave 2 survey ran from 23 May to 26 May 2014—the days immediately *after* the European Parliament election. We received a total of 761 responses. These respondents therefore constitute our two-wave panel, which had a healthy retention rate of 64%. Given our unorthodox survey method, which, after all, involved sending unsolicited invitations to complete strangers via Twitter, we consider our response rate at Wave 1 and our panel retention rate at Wave 2 to be acceptable. We compared our Wave 1 and Wave 2 respondents and we found no statistically significant differences between them in terms of gender, education, and income (see Table 1). Only the mean age of individuals differed: It was slightly higher in Wave 2 (41.5) than in Wave 1 (39.5).<sup>3</sup>

By focusing on social media users who engaged in dual-screening practices around the Clegg–Farage debates, we were able to identify individuals’ sociodemographic and political characteristics, sources of political information, and patterns of political engagement—variables that would have been impossible to measure by relying solely on the social media content posted by these users. We assessed both mediated and face-to-face behaviors by developing our own survey measures that capture combinations of behaviors that only make sense in a dual-screening context, such as watching or listening to the debates live, reading about and commenting on the debates on social media as the debates were happening, tuning into the debates after reading about them on social media, encountering debate-related information in one’s Twitter timeline, engaging with debate-related Twitter hashtags, and searching for debate-related tweets. We included in our questionnaire various measures of political behavior. We asked individuals how likely it was that they would engage in a range of political activities in the coming 12 months.

## Modeling

We conducted a principal component analysis (PCA) on both waves to assess whether and how the different political behaviors that we measured clustered around the three modes of engagement—discursive, partisan, and civic—that we hypothesized would relate to dual-screening practices. On the basis of the PCA, we then constructed three

**Table 1** Descriptive Statistics for Our Sample and Different Types of Dual Screening (Percentages)

	Watched		Read		Commented		Tuned In		Accidentally Exposed		All Sample		Benchmark Survey
	C	P	C	P	C	P	C	P	C	P	C	P	
Gender													
Male	72	69	70	67	72	69	71	67	68	68	69	68	57
Female													
15 or younger	3	3	3	3	4	4	4	4	3	2	4	3	13
16	12	11	11	11	11	12	11	12	11	12	11	11	23
17	5	6	5	5	5	4	6	4	5	4	5	5	65
18	19	18	17	17	19	19	21	20	17	20	16	15	
19 or older	61	62	64	64	60	61	59	60	64	60	65	66	
Age													
14–18	9	7	8	6	10	7	14	11	7	6	7	5	22
19–24	18	16	16	15	18	16	19	17	15	13	14	12	38
25–34	17	17	17	16	19	19	17	17	18	17	17	15	24
35–44	20	18	24	23	22	21	22	22	25	24	23	23	11
45–54	18	24	20	24	18	23	16	21	19	23	21	26	2
55–64	13	13	11	12	10	10	11	10	12	13	13	14	2
65+	5	5	3	4	3	4	2	2	4	4	4	5	2
Interest in politics													
Very interested	75	78	74	78	75	79	75	79	69	74	69	75	59
Moderately	23	21	24	21	22	19	23	20	28	24	26	23	26
Slightly	2	1	2	1	3	2	2	1	3	2	4	2	14
Not at all	0	0	0	0	0	0	0	0	0	0	1	0	1
Follow the campaign													
Very closely	36	56	30	53	34	58	35	55	25	48	27	48	56
Moderately	45	39	44	40	46	36	45	39	43	41	42	41	35
A bit	15	4	19	7	16	5	17	6	24	10	22	10	7
Not at all	4	1	6	0	4	1	3	0	8	1	9	1	2
% in whole sample	53	54	71	73	48	46	29	27	74	75	100	100	n/a
N	872	410	1153	557	781	349	469	207	1206	572	1634	761	199

Note: For both the radio and televised debate, we asked as follows: Did you “Watch/listen to the debate live on television/radio?” “Read about the debate on social media as it was happening?” “Comment on the debate on social media as it was happening?” “Tune in to the debate on the radio when you read about it on social media?” “Come across news and information on the debate when you have gone on social media for a different purpose?” Data in the Benchmark survey column are from an online survey we commissioned IPSOS to conduct separately between 29 May and 20 June 2014 on a representative sample of U.K. Internet users aged 16–74 (N = 1,750). The Benchmark column only shows percentages for respondents who have a Twitter profile and who posted news or political opinions “on social media such as Facebook and Twitter” in the previous 12 months. C = cross-section; P = panel.

aggregate indices for measuring individuals' engagement in these types of behaviors, which we entered as dependent variables in ordinary least squares (OLS) regression models involving both our cross-sectional and panel data. Due to the exploratory nature of this research, the fact that dual screening is a relatively novel phenomenon, and the fact that most previous studies of social media and engagement are based on cross-sectional data (Boulianne, 2015), in this article we report findings from both the cross-sectional and the panel data. We used cross-sectional data to describe a profile of those who dual-screened and to provide baseline estimates of the correlations between various modes of dual screening and the three different modes of political engagement we identified. We then ran the same models with panel data, while controlling for the value of the dependent variables measured at Wave 1.

## Findings

The second to last row in Table 1 answers our first research question (RQ1) by showing the percentages of respondents who engaged with the different dual-screening activities we measured. Fully 71% of the respondents in our Wave 1 sample read about the debates on social media as the debates happened, but only 53% watched or listened to the debates live. Forty-eight percent commented on the debates live and 29% tuned in to the debates after reading about them on social media. That substantially more respondents read about the debates on social media than watched or listened to them live is somewhat surprising and reveals the media substitution patterns that may emerge when individuals gain their information about a live broadcast event solely by reading about it on social media.

Clearly, the bundle of practices that form the dual-screening context were used in different combinations. Some chose not to watch or listen to the debates live but instead learned about them on social media—many in an unplanned, serendipitous way. This is all the more intriguing given that these users received our survey invitation because they had posted keywords related to the debates in advance of the broadcasts. We might expect that a high proportion of our sample would have proceeded to either watch or listen to the broadcast debates live or read about them on social media, or combine the live broadcast with social media in real-time dual screening. It seems that a group of respondents in our sample were keen to post material to social media about the debates but not as keen to experience the broadcast debates as they happened. Further research is needed to explore this puzzle in greater detail and here we offer one explanation that we aim to investigate: This behavior may be explained by individuals' desire to introduce their own framings of a broadcast event during the all-important buildup phase, when journalists and politicians are competing to establish the terms on which candidates' debate performances will be judged. Watching a debate or reading about it on social media live as it happens may be seen by some as less important than trying to influence prior perceptions of the debates and the candidates. In other words, this could be a consciously chosen way of directing one's time and energy, and thus a form of political engagement in itself.

To answer our second research question—about the characteristics of those who dual screen—we present in Table 1 both cross-section and panel data on sex, age, education, political interest, and attentiveness to the campaign for the respondents who engaged in different dual-screening practices. The distribution of the variables in Table 1 is very similar across the cross-section and panel, which demonstrates the robustness of our data across both waves. To highlight the high levels of education and political interest of our sample, we show statistics for all of our respondents. However, in order to demonstrate that our respondents are in fact similar to those among the U.K. online population who are politically engaged online, we also present some benchmark data. These are taken from a separate survey we commissioned polling company IPSOS to conduct on a representative sample of the U.K. online population between May and June 2014. The benchmark column shows data only for respondents who have a Twitter profile and who posted news or political opinions “on social media such as Facebook and Twitter” in the previous 12 months. By comparing the last three columns of the table, we can see striking similarities between our sample and the broader U.K. online population. In other words, our Twitter sample may be relatively highly educated and interested in politics, but this is also true of all U.K. Internet users who post about news and politics on social media.

Table 1 answers RQ2 by revealing that Twitter users who dual-screened the 2014 Clegg–Farage debates were predominantly male and highly educated, though they were drawn from across all age groups. They tended to be very interested in politics. They were also following the European election campaign quite attentively, and such attention grew between Waves 1 and 2, as one would expect given the activating effect of a campaign. The profile of this group is consistent with decades of research on the correlates of political engagement (Verba, Schlozman, & Brady, 1995), as well as more recent studies on the drivers of political engagement online (see, for example, Vaccari, 2013). Dual screeners brought their prior political interest to their experience of the Clegg–Farage debates.

To test the relationships between dual-screening practices and political engagement (RQs 3, 4, and 5), we used both our cross-sectional data (Wave 1) and our panel data (Waves 1 and 2). To see if our three types of engagement—discursive, partisan, and civic—were real patterns in the results, we performed a PCA on both the Wave 1 and Wave 2 data. The results are shown in Table 2. As can be seen from the coefficients, the behaviors we measured divided into three distinct components. In both waves, out of 13 items, only one—“using the internet to encourage other people to take political action”—loads on two components rather than one. Moreover, the results are consistent across Waves 1 and 2.<sup>4</sup>

The findings of the PCA confirm that our measures of political engagement are distributed around three main dimensions—discursive, partisan, and civic. Table 2 also shows a great deal of integration between activities that occur online and those that occur in face-to-face settings, which suggests that studies that focus only on online engagement are missing an important set of outcomes from dual screening.

**Table 2** Results of Principal Component Analysis (PCA) of 13 Modes of Political Engagement

	Wave 1			Wave 2		
	1 (Discursive)	2 (Partisan)	3 (Civic)	1 (Discursive)	2 (Partisan)	3 (Civic)
Debate political issues on social media	<b>0.857</b>	0.152	0.172	<b>0.839</b>	0.146	0.140
Post political news on social media	<b>0.783</b>	0.180	0.251	<b>0.759</b>	0.211	0.249
Comment on a post by a party/candidate on social media	<b>0.714</b>	0.312	0.193	<b>0.630</b>	0.395	0.065
Discuss politics with family or friends	<b>0.600</b>	0.136	0.128	<b>0.586</b>	0.048	0.249
Debate politics on a forum or blog	<b>0.621</b>	0.248	0.249	<b>0.465</b>	0.389	0.222
Use the Internet to encourage other people to take political action	0.507	0.306	0.483	0.482	0.275	0.541
Encourage someone to vote for a party/candidate via social media	0.408	<b>0.782</b>	0.146	0.391	<b>0.794</b>	0.121
Try to convince someone to vote for a party/candidate	0.357	<b>0.771</b>	0.044	0.334	<b>0.765</b>	0.133
Encourage someone to vote for a party/candidate by sending an e-mail	0.150	<b>0.755</b>	0.278	0.087	<b>0.730</b>	0.352
Give money to a political party	0.089	<b>0.714</b>	0.341	0.057	<b>0.679</b>	0.379
Work with a group of people to address a public issue	0.238	0.232	<b>0.766</b>	0.222	0.259	<b>0.814</b>
Participate in a protest, rally, or demonstration	0.174	0.103	<b>0.810</b>	0.161	0.137	<b>0.799</b>
Attend an offline event after receiving an online invitation	0.343	0.342	<b>0.635</b>	0.280	0.339	<b>0.690</b>
Eigenvalues	6.192	1.225	1.070	6.008	1.233	1.085
% of variance	47.62	9.42	8.23	46.21	9.48	8.34
N	1495			748		

*Note:* Cell entries are component loadings using Varimax rotation. All cases with missing values for half the variables or more in either wave were excluded from the analysis. Scores in bold font indicate the variables that comprise the discursive, partisan, and civic indices that we took forward to the regressions (see Table 3).

To answer RQs 3, 4, and 5, we used the results of the PCA to construct three indices, one for each of our three types of engagement. Each index includes the values of the variables that the PCA showed to be part of the related component across both waves.<sup>5</sup> Our index of discursive participation thus includes five items and ranges from 0 to 50 (Cronbach's  $\alpha = .836$  Wave 1,  $.775$  Wave 2). The index of partisan participation includes four items and ranges from 0 to 40 (Cronbach's  $\alpha = .841$  Wave 1,  $.837$  Wave 2), and the index of civic participation includes three items and ranges from 0 to 30 (Cronbach's  $\alpha = .764$  Wave 1,  $.809$  Wave 2).

Next, as Table 3 shows, we entered these indices as dependent variables in OLS regression models that included our chosen independent variables measuring the different practices that might constitute dual screening. We also included as independent variables four measures of how respondents encountered debate information on Twitter: because they saw debate-related messages on their timelines, because they came across a hashtag related to the debates and started following the conversation around it, because someone sent them an "@" mention or a direct message about the debates, and because they purposively searched for commentary on the debates using the Twitter search bar. As Table 3 shows, our models include control variables measuring the frequency of political information acquisition through different media; political attitudes that usually predict political engagement; and sociodemographic characteristics.<sup>6</sup> We ran these models with both cross-sectional data from Wave 1 and panel data from Waves 1 and 2.

Table 3 shows that political engagement is strongly associated with some of the practices of dual screening around the debates—especially those involving users actively contributing to conversations. It is also associated with some of the Twitter affordances that enable dual screening (RQs 3 and 5). This is the case even after controlling for general sources of political information, political attitudes, sociodemographic characteristics, and, when using the panel data, previously reported levels of political engagement. In the cross-sectional results at Wave 1, we found positive and significant correlations between commenting on the debates via social media and all three types of political engagement—discursive, partisan, and civic. The cross-sectional results also indicate that three specific dual-screening affordances of Twitter are particularly strong predictors of different forms of political engagement. First, seeing debate-related posts in one's own timeline is positively and significantly associated with discursive and partisan engagement. Second, being mentioned by, or receiving direct messages from, other Twitter users is positively and significantly correlated with partisan engagement. Third, encountering debate-related hashtags, which then lead one to read a Twitter conversation about the debates, is positively associated with partisan and civic engagement.

As the Wave 2 columns of Table 3 reveal, most of these correlations do not exist in the Wave 2 results. However, some positive and significant correlations *are* confirmed in Wave 2, which suggests that some specific bundles of dual-screening practices and social media affordances did lead to greater political engagement even after applying

**Table 3** Results of Ordinary Least Squares (OLS) Regressions Predicting Discursive, Partisan, and Civic Engagement

	Discursive		Partisan		Civic	
	Wave 1	Wave 2	Wave 1	Wave 2	Wave 1	Wave 2
Practices of dual screening during the debates						
Watched/listened to the debates live	-1.058	-0.254	-0.355	-0.843	-1.627**	-0.705
Read about the debates on social media as the debates happened	-0.189	-0.281	-3.222***	0.581	-1.430*	-0.211
Tuned in after reading about the debates on social media	-0.665	-1.018	-0.216	-0.539	-0.641	-0.718
Commented on the debates on social media as the debates happened	2.738***	0.659	2.014*	-0.076	1.185*	1.203*
Serendipitously exposed to debate information on social media	2.306***	0.850	0.396	-0.061	1.411*	0.233
Encountering debate information on Twitter						
Via posts on timeline	3.253***	0.643	2.382**	-0.829	1.144	0.360
Via mentions (@)	1.320	-0.149	2.395**	-0.244	0.380	0.130
Via hashtags (#)	1.014	1.355**	1.580*	1.685*	1.251*	0.459
Via searching tweets	0.256	-0.557	0.833	-1.427	0.034	-0.546
Dependent variable measured in Wave 1	-	0.571***	-	0.712***	-	0.717***
Sources of political information						
Websites	0.878***	0.385	0.299	0.448	0.293	0.414*
Social media	1.958***	0.753**	1.284***	-0.095	1.097***	0.171
Newspapers	0.021	0.127	-0.165	-0.279	0.220	0.221
Television	-1.041***	0.205	-0.981***	0.168	-1.141***	-0.223
Radio	-0.602**	-0.217	-0.137	-0.037	0.180	0.327
Face-to-face conversations	2.202***	0.668**	1.219***	0.846*	1.540***	0.893***
Political attitudes						
Interest in politics	6.002***	2.064***	4.401***	0.841	3.119***	1.050*
Attention to the campaign	2.388***	0.699	3.130***	1.500**	1.712***	0.261
Trust in British politicians	-0.022	0.054	0.928***	0.248	0.047	-0.055
Sociodemographic characteristics						
Gender (male)	0.607	0.380	0.625	-0.176	-2.304***	0.195
Age (years)	-0.013	0.012	-0.041	-0.004	-0.017	-0.007
Education (age of completion)	0.340	-0.039	-0.062	0.118	0.474*	0.072
Income (monthly household before tax)	-0.027	0.017	-0.036	-0.072	-0.105**	-0.055
Constant	-13.438***	-1.337	-19.107***	-4.145	-9.969***	-5.468*
N	1195	621	1195	621	1195	621
Adjusted R <sup>2</sup>	0.438	0.729	0.319	0.651	0.282	0.685
F (df = 23 for Wave 1, 24 for Wave 2)	41.452***	70.553***	25.310***	49.175***	21.410***	57.370***

Note: Cell entries are unstandardized slope coefficients (*B*) for the independent variables.

\*\*\**p* ≤ .001. \*\**p* ≤ .01. \**p* ≤ .05.

the more rigorous tests of causality that panel data afford (RQs 3 and 5). In particular, panel respondents who engaged with the Clegg–Farage debate on Twitter after encountering debate-related hashtags were significantly more likely to engage in discursive and partisan behaviors, whereas those who commented on the debates on social media were significantly more likely to engage in civic behaviors.

As regards the relationship between accidental exposure and engagement (RQ4), in the cross-sectional data at Wave 1, we found positive and significant correlations between serendipitous exposure to the debates via social media and both discursive and civic engagement. The lack of a correlation between serendipitous exposure and partisan forms of engagement (behaviors aimed at supporting candidates and parties) suggests that serendipitous exposure might be particularly beneficial for engagement because it is more likely to foster broad, nonpartisan forms of behavior that are based on discussion and deliberation. We caution, however, that in the panel results, the coefficients for both associations remain positive, but are no longer statistically significant.

Our fifth, integrative research question (RQ5) asked which of the hybrid mix of media affordances and practices involved in the dual-screening context have the strongest relationships with political engagement. Most of the positive and significant correlations in the cross-sectional data, and all those in the panel data, indicate that when Twitter users were drawn into discussions about the debates by other users—whether because they engaged in live commenting on the events or became part of the “bubbling up” of conversational topics organized around hashtags—these relatively active practices contributed to a statistically significant increase in individuals’ propensity to engage in a range of political activities. This holds even after controlling for people’s prior levels of reported engagement and a wide variety of other variables that could conceivably affect these outcomes. In stark contrast, none of the relatively passive forms of dual-screening practices—watching, reading, tuning in, and reading messages in one’s timeline—is significantly correlated with engagement in the panel results. To reinforce this point, in the cross-sectional results we also found negative and significant correlations between watching the debates live and civic participation and between reading about the debates live on social media and both partisan and civic participation. Thus, in answer to RQ5, it is the relatively active forms of dual-screening practice, which involve individuals contributing commentary and interacting with ongoing conversations, which may lead to the most significant gains in political engagement. The relatively passive and solitary forms of dual-screening practice, where users learn about the debates via broadcast media or, indeed, social media, but then fail to become part of the online discussion through the specific affordances of Twitter, are not associated with increases in engagement. Dual-screening practices can influence political engagement only when they entail some constructive involvement with discussions about a broadcast event, and not when they just function as an additional source of information about an event.

Finally, as we might expect with a sample of politically interested Twitter users, Table 3 shows that control variables such as the acquisition of political information

via websites, social media, and, most notably, face-to-face conversations, interest in politics, and attention to the campaign are all positively and significantly correlated with the three modes of political engagement that we tested. This holds for both cross-sectional and, for the most part, panel results. Intriguingly, at Wave 1, acquisition of political information via television was negatively and significantly correlated with all three modes of engagement, though again we stress that these correlations disappear with the panel controls.

## Discussion and conclusion

Using new research questions, a new combination of methods involving a large sample of individuals, and new findings, we explored user behavior during a high-profile, hybrid political media event, and we assessed the implications of this behavior for political engagement. We identified the characteristics of those who engaged in dual-screening practices and explained the relationships between dual-screening and political engagement in its discursive, partisan, and civic forms, in both online and face-to-face settings.

We found that more respondents read about the debates on social media—many of them by accident—than watched or listened to them live and that dual screeners are more likely to be highly educated and highly interested in politics. We showed that respondents' political engagement comprises discursive, partisan, and civic modes and that some dual-screening practices are positively associated with these three modes. This was the case both in the aftermath of the debates, as shown by the cross-sectional results, and several weeks later, as shown by the panel results, though these associations were weaker when we assessed them with panel data, as we expected. We found that accidental exposure to debate-related information on social media was positively associated with discursive and civic engagement when using cross-sectional data, but this association turned out to be short lived when probed with panel data (RQ4). Finally, we found that, within the hybrid mix, commenting on the debates and engaging with conversations via Twitter hashtags were both positively associated with political engagement, while practices entailing reception of information without contributing to the discussion around the debates were negatively associated in the cross-sectional results and made no difference in the panel results (RQ5).

With these results in mind, we can return to our theory that dual screening involves several different combinations or “bundles” of practices, and that these practices will have different relationships with political engagement. Recall that these bundles consist either of relatively active, purposive information-seeking and information-production practices, or relatively passive, information-reception practices. Our findings indicate that this distinction has important implications for political engagement: Bundles of “lean-forward” practices involving commentary and conversation have the strongest and most consistent associations with different

modes of political engagement. Bundles of relatively passive, “lean-back” practices have no effects on political engagement.

This study extends previous lines of inquiry in several important respects and speaks to several current concerns in the discipline of communication. First, we were able to go beyond the single-medium approach that has been dominant in previous research on the Internet and political engagement (Boulianne, 2009, 2015). Second, not only were we able to identify those who engaged in dual-screening practices, we were also able to run a custom two-wave panel survey that contained measures designed to tap the interdependencies among media affordances as they are now experienced by the public. Third, we were able to identify the specific bundles of dual-screening practices that correlate positively with engagement.

It is, however, important to recognize that the generalizability of our data is limited by our research design. Due to our desire to get *inside* a specific hybrid media event, we consciously restricted our sample to Twitter users who posted messages containing keywords related to that event before, during, and after the event. We sampled Twitter users on the basis of the keywords they posted, but we cannot describe the general population from which our sample was drawn, and thus cannot firmly establish the extent to which our respondents resemble that population. We were able to partly address this limitation with our benchmark data from a sample representative of the general U.K. online population, which, as we pointed out, bears remarkable similarities to our respondent sample (see Table 1). We cannot determine whether our findings can be generalized to those who do not use Twitter or those who do use Twitter but did not post any debate-related keywords. In choosing to study a specific sample of Twitter users to measure behaviors associated with a specific hybrid media event, we prioritized internal validity over external validity. However, we contend that the unrepresentative nature of our sample (when compared with the general population) in some ways reinforces, rather than undermines, the significance of our findings. This is because most of our respondents were already politically engaged; therefore, we might reasonably expect that they would not substantially extend their engagement as a result of any particular episode during the course of a campaign, especially when accounting for their previous levels of engagement. The fact that we still found positive and significant correlations between some dual-screening practices and different types of political engagement—within an already engaged sample *and* when analyzing panel data—is thus all the more remarkable.

Despite the limits to its generalizability, our analysis shows that, among our sample of Twitter users, dual-screening practices extend political engagement and they do so in systemic ways that rest on hybrid articulations between high-profile political events, broadcast media coverage, the interactive affordances of social media (particularly Twitter), and specific political behaviors. Since it is through debate-related Twitter hashtags that most of the purposive and accidental exposure occurs, the affordances of Twitter have a particularly important influence. Thus, the architecture and features of Twitter as a mediated environment interact with broadcast coverage to spur engagement.

The integration of online and face-to-face behaviors as well as the number of individuals experiencing the debate only online and not on television, or both online and on television, indicates how fundamentally hybrid political communication has become at the individual level. Communication research that only gathers data on engagement with one medium or one digital application misses the way individuals' political experience is now shaped by combinations of different older and newer media. Surveys can capture this hybridity by incorporating questions about respondents' different modes of information acquisition and political engagement—evidence that is impossible to gather through the content analysis of public “big” data.

More broadly, this requires us to rethink and reconfigure Dayan and Katz's (1992) broadcast-era theory of media events. It is now well established that the new affordances of social media, particularly Twitter hashtags, encourage concrete practices of production and active intervention in the flow of broadcast media events, or they may simply make it easier for individuals to monitor a wider range of interpretations of an event (Chadwick, 2011a, 2011b; Freelon & Karpf, 2015; Papacharissi, 2014). Our contribution in this study pushes beyond previous research by operationalizing dual screening empirically, and, moreover, in such a way that reveals patterned relationships between certain types of dual-screening practices and certain types of political engagement, among a large sample of individuals. It is not that digital media affordances operate in isolation to create these shifts; rather they function as part of a reconfigured context—the hybrid media event. By articulating broadcast media, social media, and engagement in our empirics, we have been able to demonstrate how today's media events create the ingredients for relatively active, politically conscious modes of behavior that go beyond the relatively passively experienced communal rituals that Dayan and Katz once saw as important for consensus and social integration. Hybrid media events are comparatively fertile contexts for political engagement.

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## Notes

- 1 The full list is Clegg, Farage, @nick\_clegg, @nigel\_farage, #NickvNigel, @LBC, #EUshowdown, #LBCfirsteuropedebate, #LBCdebate, #whyiamin, #CleggvFarage, #bbcqt, #europedebate, #cleggvfarage, #inorout, #faragefacts, #teamnigel, #eurodebate, #bbcdebate, #eudebate, and Dimpleby.
- 2 Ninety-six percent of respondents stated that they had received the invitation directly from us. We excluded from our analysis the 4% who responded otherwise. Qualtrics' controls meant the survey could not be answered multiple times from the same computer.

- 3 Cramer's Phi coefficient for gender was  $-.006$  ( $p = .785$ ) between Waves 1 and 2.  
Chi-square coefficient for education was  $1.463$  ( $p = .833$ ) between Waves 1 and 2.  
Chi-square coefficient for income was  $9.491$  ( $p = .964$ ) between Waves 1 and 2.  
 $F$ -coefficient for age was  $9.123$  ( $p = .003$ ) between Waves 1 and 2.
- 4 Following established practice, we exclude variables that load with a coefficient of less than  $.400$ . In Wave 1, one item — “Encourage someone to vote for a party/candidate via social media” — cross-loaded on both the discursive and partisan indices, but we note that the loading on the discursive index ( $.408$ ) is much smaller when compared with the loading on the partisan index ( $.782$ ). We also note that this cross-loading does not occur with the Wave 2 data, where the coefficients are  $.391$  and  $.794$ , respectively. We therefore decided to include this variable in the partisan engagement index.
- 5 We did not use component scores because these would be inconsistent across waves 1 and 2 due to the small differences in the coefficients of the PCA, which would have made it problematic to have component scores in Wave 1 as predictors of those in Wave 2.
- 6 Our income variable had 93 missing values, so rather than introduce bias through listwise deletion, we mean-replaced the missing values and added a dummy variable to the analysis identifying these cases. The coefficients on the dummy variables identifying the missing cases — which are essentially meaningless because they are a function of whatever value one uses to replace the missing observations — are not included in the tables.

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