

ONLINE SUPPLEMENTARY MATERIALS

Table S.1 Brexit Campaign Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, England and Wales

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race or Ethnicity	Religion or Beliefs	Sexual Orientation	Transgender Identity	Disability
Constant	2863.98*** (353.94)	.242 (17.71)	567.62* (241.31)	-.463 (2.00)	-.705 (3.36)
Month of Event	-463.11 (371.26)	-11.38 (65.52)	-64.52 (38.93)	-8.41 (5.41)	-23.39* (9.90)
Lag 1 Month	-560.78 (487.89)	-152.25 (127.42)	-61.64 (34.43)	-23.57*** (4.06)	-3.32 (6.58)
Lag 2 Months	-465.81 (479.74)	-249.13 (147.43)	-42.93 (28.06)	-2.47 (6.76)	-69.55*** (14.30)
Sigma	325.00*** (38.13)	100.16*** (16.09)	40.56*** (5.99)	16.10*** (1.76)	27.06*** (3.88)
ARIMA	(1,0,0)(0,0,0) ₁₂	(0,1,0)(0,1,0) ₁₂	(1,0,0)(1,0,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(1,1,0)(0,1,0) ₁₂
Ljung-Box Test for White Noise (df)	31.30 p<.07 (21)	14.25 p<.43 (14)	10.26 p<.98 (21)	5.56 p<.98 (14)	15.19 p<.37 (14)
N	46	33	46	33	33

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.

Table S.2 Brexit Campaign Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, Scotland

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race	Religion	Sexual Orientation	Transgender Identity	Disability
Constant	-3.03 (10.44)	-.666 (1.94)	-1.45 (2.42)	.116 (.249)	.138 (.674)
Month of Event	-3.25 (39.16)	2.49 (8.05)	12.27 (11.11)	-1.74 (1.70)	-5.78 (3.44)
Lag 1 Month	109.00 (56.25)	6.84 (8.27)	20.40 (12.68)	-5.15 (3.06)	8.86 (4.61)
Lag 2 Months	-34.25 (37.31)	-7.29 (10.30)	.099 (18.17)	-.834 (3.46)	8.23 (6.67)
Sigma	59.06*** (8.04)	15.84*** (1.52)	18.98*** (2.19)	2.60*** (.308)	6.56*** (.849)
ARIMA	(0,1,0)(0,1,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(1,1,0) (0,0,0) ₁₂	(1,1,0)(1,1,0) ₁₂
Ljung-Box Test for White Noise (df)	13.73 p<.47 (14)	15.13 p<.37 (14)	12.13 p<.60 (14)	15.50 p<.75 (20)	13.88 p<.46 (14)
N	33	33	33	45	33

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.

Table S.3 The Scottish Independence Referendum Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, England and Wales

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race or Ethnicity	Religion or Beliefs	Sexual Orientation	Transgender Identity	Disability
Constant	2829.62*** (342.66)	5.62 (16.35)	6.10 (5.50)	-.464 (2.17)	6.62 (5.50)
Month of Event	157.19 (133.37)	10.75 (11.71)	-13.81 (14.88)	7.70 (5.22)	-10.97 (8.83)
Lag 1 Month	256.94 (176.58)	17.5 (13.52)	-10.19 (14.87)	-4.25 (4.06)	6.34 (11.23)
Lag 2 Months	149.28 (173.45)	-6.75 (11.71)	26.00 (14.88)	-4.93 (3.94)	-2.33 (15.94)
Sigma	336.45*** (45.57)	108.48*** (28.54)	42.37*** (5.02)	17.33*** (1.65)	29.97*** (3.63)
ARIMA	(1,0,0)(0,0,0) ₁₂	(0,1,0)(0,0,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(1,1,0) (0,1,0) ₁₂	(1,1,0)(1,0,0) ₁₂
Ljung-Box Test for White Noise (df)	24.04 p<.29 (21)	11.34 p<.94 (20)	17.82 p<.21 (14)	6.40 p<.96 (14)	13.61 p<.85 (20)
N	46	45	33	33	45

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.

Table S.4 The Scottish Independence Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, Scotland

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race	Religion	Sexual Orientation	Transgender Identity	Disability
Constant	.840 (6.07)	.268 (1.30)	-1.47 (2.61)	.006 (.135)	.291 (.664)
Month of Event	2.34 (10.41)	-3.11 (5.62)	3.36 (6.30)	-1.92 (1.17)	-2.41 (3.09)
Lag 1 Month	-46.44*** (13.12)	-7.80 (6.81)	-22.88** (7.18)	-1.75 (1.09)	-2.60 (3.17)
Lag 2 Months	-6.15 (9.39)	-2.52 (8.01)	1.54 (7.59)	-1.52 (1.73)	-1.01 (3.13)
Sigma	60.22*** (12.15)	11.53*** (1.26)	19.31*** (3.27)	3.13*** (.429)	6.04*** (.637)
ARIMA	(1,2,0)(0,0,0) ₁₂	(1,1,0)(0,0,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(3,2,0)(0,0,0) ₁₂	(1,1,0)(0,0,0) ₁₂
Ljung-Box Test for White Noise (df)	17.92 p<.59 (20)	13.40 p<.86 (20)	15.16 p<.37 (14)	22.34 p<.32 (20)	18.77 p<.54 (20)
N	44	45	33	44	45

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.

Table S.5 Westminster Attack Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, England and Wales

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race or Ethnicity	Religion or Beliefs	Sexual Orientation	Transgender Identity	Disability
Constant	-4.17 (44.82)	-4.25 (20.45)	542.25** (202.77)	.169 (1.94)	7.72 (7.62)
Month of Event	-9.43 (275.02)	-22.04 (66.82)	-39.62 (52.10)	29.56*** (4.83)	41.76 (28.93)
Lag 1 Month	-320.67 (301.46)	-212.69 (144.73)	39.66 (40.01)	7.18 (10.11)	-8.35 (26.59)
Lag 2 Months	-129.77 (251.10)	-34.35 (139.50)	40.89 (27.98)	22.99* (9.53)	-29.05 (21.12)
Sigma	304.20*** (56.61)	115.94*** (34.81)	40.71*** (5.88)	15.46*** (1.23)	29.56*** (2.96)
ARIMA	(0,1,0)(1,1,0) ₁₂	(0,1,0)(0,1,0) ₁₂	(1,0,0) (1,0,0) ₁₂	(1,1,0) (0,1,0) ₁₂	(0,1,0)(1,0,0) ₁₂
Ljung-Box Test for White Noise (df)	19.17 p<.16 (14)	7.51 p<.91 (14)	18.44 p<.62 (21)	6.76 p<.94 (14)	15.95 p<.72 (20)
N	33	33	46	33	45

Note:*p<.05;** p<.01;***p<.001. Standard errors in parentheses.

Table S.6 Manchester Attack Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, England and Wales

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race or Ethnicity	Religion or Beliefs	Sexual Orientation	Transgender Identity	Disability
Constant	-5.65 (36.96)	.242 (8.66)	639.21 (486.35)	-.471 (2.22)	-.726 (3.57)
Month of Event	461.61*** (38.77)	361.60*** (15.60)	19.54 (39.32)	13.27* (6.38)	.854 (15.66)
Lag 1 Month	850.20*** (59.31)	579.00*** (18.02)	-10.88 (47.60)	-1.50 (9.53)	80.92*** (14.97)
Lag 2 Months	-215.91 (155.37)	78.50*** (15.60)	-8.35 (43.12)	1.07 (15.24)	37.95* (15.72)
Sigma	245.59*** (55.57)	49.01*** (6.11)	55.16*** (6.74)	17.26*** (1.63)	28.48*** (3.63)
ARIMA	(0,1,0)(1,1,0) ₁₂	(0,1,0)(0,1,0) ₁₂	(1,0,0)(0,0,0) ₁₂	(1,1,0) (0,1,0) ₁₂	(1,1,0)(0,1,0) ₁₂
Ljung-Box Test for White Noise (df)	11.79 p<.63 (14)	13.94 p<.45 (14)	18.42 p<.62 (21)	4.03 p<.99 (14)	14.24 p<.43 (14)
N	33	33	46	33	33

Note: *p<.05; ** p<.01; ***p<.001. Standard errors in parentheses. Model 3 was estimated using “diffuse” option to obtain a better fit of the model.

Table S.7 Finsbury Park and London Bridge Attacks Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, England and Wales

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race or Ethnicity	Religion or Beliefs	Sexual Orientation	Transgender Identity	Disability
Constant	-6.29 (40.82)	.242 (14.95)	6.94 (6.71)	-.481 (2.27)	-.721 (3.56)
Month of Event	536.03** (188.53)	299.75** (87.94)	-15.50 (25.01)	-.219 (5.26)	78.94*** (14.60)
Lag 1 Month	-413.90 (263.51)	-118.50 (101.54)	-27.00 (28.88)	2.31 (7.74)	36.23* (16.31)
Lag 2 Months	18.34 (185.37)	-114.75 (87.94)	95.50*** (25.01)	18.63 (12.53)	-5.09 (15.38)
Sigma	264.76*** (50.09)	84.56*** (20.94)	37.96*** (5.05)	17.10*** (1.63)	28.47*** (3.63)
ARIMA	(0,1,0)(1,1,0) ₁₂	(0,1,0)(0,1,0) ₁₂	(0,1,0)(0,1,0) ₁₂	(1,1,0) (0,1,0) ₁₂	(1,1,0)(0,1,0) ₁₂
Ljung-Box Test for White Noise (df)	13.52 p<.49 (14)	8.32 p<.87 (14)	20.23 p<.12 (14)	8.67 p<.85 (14)	14.07 p<.44 (14)
N	33	33	33	33	33

Note: *p < .05; ** p < .01; ***p < .001. Standard errors in parentheses.

Table S.8 Westminster Attack Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, Scotland

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race	Religion	Sexual Orientation	Transgender Identity	Disability
Constant	1.10 (10.75)	.277 (1.33)	.041 (.994)	-.038 (.405)	5.52** (1.59)
Month of Event	46.59 (25.64)	13.69 (9.79)	.857 (7.32)	.941 (1.93)	-3.12 (1.90)
Lag 1 Month	45.20 (24.57)	5.21 (11.54)	1.72 (13.21)	1.39 (.955)	5.07 (3.54)
Lag 2 Months	21.15 (19.67)	6.38 (13.43)	7.53 (5.90)	8.20 (4.19)	3.23 (6.52)
Sigma	52.26*** (14.28)	11.38*** (1.21)	17.34*** (2.84)	3.86*** (.447)	6.37*** (.811)
ARIMA	(2,1,1)(0,0,0) ₁₂	(1,1,0)(0,0,0) ₁₂	(3,2,0)(0,0,0) ₁₂	(1,1,0)(0,1,0) ₁₂	(1,0,0)(1,1,0) ₁₂
Ljung-Box Test for	22.65	10.80	27.41	18.98	5.18
White Noise (df)	p<.31 (20)	p<.95 (20)	p<.12 (20)	p<.17 (14)	p<.99 (15)
N	45	45	44	33	34

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.

Table S.9 Manchester Attack Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, Scotland

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race	Religion	Sexual Orientation	Transgender Identity	Disability
Constant	1.14 (10.59)	.262 (1.22)	.039 (.998)	.118 (.269)	16.60*** (3.07)
Month of Event	-7.79 (4.38)	10.12** (3.45)	4.58 (5.71)	1.71 (.872)	-1.05 (2.11)
Lag 1 Month	-4.04 (6.74)	21.90*** (4.32)	-5.56 (7.00)	-1.75 (1.34)	-5.46 (3.28)
Lag 2 Months	-8.78 (4.78)	6.56 (5.16)	4.28 (5.05)	-1.90 (2.11)	-4.38 (3.82)
Sigma	52.94*** (14.13)	10.99*** (1.31)	17.24*** (2.83)	2.69*** (.388)	6.00*** (.794)
ARIMA	(2,1,1)(0,0,0) ₁₂	(1,1,0)(0,0,0) ₁₂	(3,2,0)(0,0,0) ₁₂	(1,1,0)(0,0,0) ₁₂	(1,0,0)(0,0,0) ₁₂
Ljung-Box Test for	19.99	16.93	30.75	16.77	15.43
White Noise (df)	p<.46 (20)	p<.66 (20)	p<.06 (20)	p<.67 (20)	p<.80 (21)
N	45	45	44	45	46

Note: *p<.05; **p <.01; ***p<.001. Standard errors in parentheses.

Table S.10 Finsbury Park and London Bridge Attacks Regressed on Hate Crimes by Strands Recorded by the Police by Month, April 2014 to March 2018, Scotland

	Model 1	Model 2	Model 3	Model 4	Model 5
	Race	Religion	Sexual Orientation	Transgender Identity	Disability
Constant	53.61 (49.13)	.263 (1.22)	-1.12 (1.78)	.024 (.096)	16.56*** (3.67)
Month of Event	-116.33 (72.49)	14.93*** (3.28)	-47.43*** (12.31)	1.40 (2.89)	-4.79 (2.44)
Lag 1 Month	-91.02 (70.66)	-.399 (2.90)	-22.05 (13.61)	-1.42 (1.44)	-3.01 (2.79)
Lag 2 Months	-64.28 (60.72)	-10.63*** (3.02)	-10.52 (10.75)	2.97 (1.80)	2.11 (3.46)
Sigma	54.60*** (5.92)	10.98*** (1.31)	14.55*** (2.13)	2.89*** (.362)	5.73*** (.642)
ARIMA	(1,0,0)(1,1,0) ₁₂	(1,1,0)(0,0,0) ₁₂	(0,1,0)(1,1,0) ₁₂	(4,2,0)(0,0,0) ₁₂	(2,0,0)(0,0,0) ₁₂
Ljung-Box Test for	15.42	15.74	11.14	12.15	15.01
White Noise (df)	p<.42 (15)	p<.73 (20)	p<.68 (14)	p<.91 (20)	p<.82 (21)
N	34	45	33	44	46

Note: *p<.05; **p<.01; ***p<.001. Standard errors in parentheses.