

[*Online Appendix*]

Asymmetries of Vulnerability:
How Party Lines Shape Racialized Online Violence
Against Women in the 2024 U.S. Election

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Appendix 1. Regression Analysis: Offensive Speech

Table A1: Logistic Regression Models on Offensive Speech

DV:	<i>Offensive All</i>	<i>Ridicule</i>	<i>Demean</i>	<i>Profanity</i>
Intercept	236.78*** (11.24)	44.61 (33.84)	187.97*** (26.20)	156.68*** (40.86)
Female	1.95*** (0.04)	0.94*** (0.10)	1.19*** (0.08)	0.77*** (0.11)
Black	-1.14*** (0.04)	-1.03*** (0.13)	-0.56*** (0.10)	-0.52*** (0.13)
Hispanic	1.83*** (0.05)	1.99*** (0.13)	2.04*** (0.10)	0.47*** (0.16)
Asian	0.17** (0.07)	-0.19 (0.21)	0.28* (0.16)	-0.88*** (0.28)
Democratic	1.13*** (0.11)	1.09*** (0.34)	0.93*** (0.24)	1.16*** (0.24)
Senate	-1.05*** (0.06)	-0.42** (0.17)	-1.40*** (0.17)	-0.56*** (0.16)
Incumbency	-0.04 (0.07)	0.78*** (0.26)	-0.35** (0.16)	-0.47** (0.19)
Follower Count (Log)	0.03* (0.02)	0.16*** (0.05)	0.07** (0.04)	0.12** (0.05)
Tweet Count (Log)	0.30*** (0.02)	0.22*** (0.06)	0.11*** (0.04)	0.07 (0.06)
Impression Count (Log)	-0.14*** (0.01)	-0.14*** (0.03)	-0.20*** (0.02)	-0.12*** (0.03)
Time to Election	-0.01*** (0.00)	-0.00* (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
AIC	52485.50	8197.21	12482.11	6499.90
BIC	52623.37	8335.08	12619.98	6637.77
Log Likelihood	-26230.75	-4086.60	-6229.05	-3237.95
Deviance	52461.50	8173.21	12458.11	6475.90
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

Table A2: Logistic Regression Models on Offensive Speech (Female $\times$ Race)

DV:	<i>Offensive All</i>	<i>Ridicule</i>	<i>Demean</i>	<i>Profanity</i>
Intercept	71.51*** (2.61)	61.50*** (3.61)	86.79*** (4.07)	46.77*** (15.97)
Female	0.06*** (0.01)	0.17*** (0.01)	0.01 (0.01)	-0.16*** (0.05)
Black	-0.06*** (0.01)	0.00 (0.02)	-0.02 (0.02)	0.03 (0.08)
Hispanic	0.29*** (0.02)	0.39*** (0.02)	0.10*** (0.03)	0.39*** (0.10)
Asian	-0.19*** (0.03)	-0.10** (0.04)	-0.28*** (0.05)	-0.33* (0.18)
Democratic	-0.09*** (0.01)	-0.20*** (0.01)	-0.06*** (0.01)	0.01 (0.05)
Senate	-0.38*** (0.01)	-0.32*** (0.01)	-0.35*** (0.02)	-0.31*** (0.06)
Incumbency	-0.01 (0.01)	-0.04** (0.02)	-0.03 (0.02)	0.14* (0.08)
Follower Count (Log)	0.11*** (0.00)	0.08*** (0.00)	0.13*** (0.01)	0.12*** (0.02)
Tweet Count (Log)	0.03*** (0.00)	0.04*** (0.01)	-0.04*** (0.01)	-0.15*** (0.02)
Impression Count (Log)	-0.24*** (0.00)	-0.22*** (0.00)	-0.25*** (0.00)	-0.53*** (0.01)
Time to Election	-0.00*** (0.00)	-0.00*** (0.00)	-0.00*** (0.00)	-0.00*** (0.00)
Female:Black	0.29*** (0.02)	0.11*** (0.03)	0.45*** (0.03)	-0.09 (0.12)
Female:Hispanic	-0.55*** (0.02)	-0.49*** (0.03)	-0.51*** (0.04)	-0.18 (0.14)
Female:Asian	0.63*** (0.04)	0.15** (0.07)	1.13*** (0.06)	0.76*** (0.25)
AIC	614971.72	375805.02	311710.30	33083.46
BIC	615144.06	375977.36	311882.63	33255.79
Log Likelihood	-307470.86	-187887.51	-155840.15	-16526.73
Deviance	614941.72	375775.02	311680.30	33053.46
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

Table A3: Logistic Regression Models on Offensive Speech (Female $\times$ Race $\times$ Party)

DV:	<i>Offensive All</i>	<i>Ridicule</i>	<i>Demean</i>	<i>Profanity</i>
Intercept	70.80*** (2.62)	60.42*** (3.61)	85.57*** (4.07)	45.47** (15.98)
Female	0.30*** (0.01)	0.47*** (0.01)	0.24*** (0.02)	0.25*** (0.07)
Black	0.00 (0.03)	0.26*** (0.04)	-0.14** (0.05)	0.34* (0.15)
Hispanic	0.47*** (0.02)	0.61*** (0.03)	0.21*** (0.03)	0.65*** (0.11)
Asian	-0.15 (0.08)	-0.15 (0.12)	-0.17 (0.14)	1.22*** (0.31)
Democratic	0.13*** (0.01)	0.12*** (0.01)	0.12*** (0.02)	0.35*** (0.06)
Senate	-0.42*** (0.01)	-0.37*** (0.01)	-0.38*** (0.02)	-0.38*** (0.06)
Incumbency	-0.00 (0.01)	-0.02 (0.02)	-0.01 (0.02)	0.18* (0.08)
Follower Count (Log)	0.10*** (0.00)	0.06*** (0.00)	0.13*** (0.01)	0.11*** (0.02)
Tweet Count (Log)	0.04*** (0.00)	0.06*** (0.01)	-0.03*** (0.01)	-0.13*** (0.03)
Impression Count (Log)	-0.24*** (0.00)	-0.22*** (0.00)	-0.24*** (0.00)	-0.52*** (0.01)
Time to Election	-0.00*** (0.00)	-0.00*** (0.00)	-0.00*** (0.00)	-0.00** (0.00)
Female:Black	-9.27 (19.43)	-8.89 (19.56)	-9.13 (32.13)	-10.96 (232.50)
Female:Hispanic	-0.98*** (0.11)	-1.06*** (0.14)	-0.78*** (0.17)	-0.80 (0.52)
Female:Asian	-0.02 (0.15)	-0.57* (0.24)	0.22 (0.22)	-11.88 (85.32)
Female:Democratic	-0.54*** (0.02)	-0.75*** (0.02)	-0.53*** (0.03)	-0.95*** (0.11)
Black:Democratic	-0.22*** (0.03)	-0.53*** (0.05)	0.03 (0.06)	-0.58** (0.18)
Hispanic:Democratic	-0.65*** (0.04)	-0.81*** (0.06)	-0.32*** (0.07)	-0.78** (0.25)
Asian:Democratic	-0.17* (0.09)	-0.14 (0.12)	-0.24 (0.15)	-2.07*** (0.38)
Female:Black:Democratic	9.86 (19.43)	9.49 (19.56)	9.84 (32.13)	11.45 (232.50)
Female:Hispanic:Democratic	1.07*** (0.12)	1.38*** (0.16)	0.66*** (0.19)	1.46* (0.58)
Female:Asian:Democratic	0.98*** (0.15)	1.19*** (0.25)	1.25*** (0.23)	13.55 (85.32)
AIC	613815.01	374666.07	311265.12	32988.24
BIC	614067.77	374918.83	311517.88	33241.01
Log Likelihood	-306885.50	-187311.04	-155610.56	-16472.12
Deviance	613771.01	374622.07	311221.12	32944.24
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

Appendix 2. Regression Analysis: Hate Speech

Table A4: Logistic Regression Models on Hate Speech

DV:	<i>Hate All</i>	<i>Religion</i>	<i>Race</i>	<i>Sexuality</i>
Intercept	236.78*** (11.24)	44.61 (33.84)	187.97*** (26.20)	156.68*** (40.86)
Female	1.95*** (0.04)	0.94*** (0.10)	1.19*** (0.08)	0.77*** (0.11)
Black	-1.14*** (0.04)	-1.03*** (0.13)	-0.56*** (0.10)	-0.52*** (0.13)
Hispanic	1.83*** (0.05)	1.99*** (0.13)	2.04*** (0.10)	0.47*** (0.16)
Asian	0.17** (0.07)	-0.19 (0.21)	0.28* (0.16)	-0.88*** (0.28)
Democratic	1.13*** (0.11)	1.09*** (0.34)	0.93*** (0.24)	1.16*** (0.24)
Senate	-1.05*** (0.06)	-0.42** (0.17)	-1.40*** (0.17)	-0.56*** (0.16)
Incumbency	-0.04 (0.07)	0.78*** (0.26)	-0.35** (0.16)	-0.47** (0.19)
Follower Count (Log)	0.03* (0.02)	0.16*** (0.05)	0.07** (0.04)	0.12** (0.05)
Tweet Count (Log)	0.30*** (0.02)	0.22*** (0.06)	0.11*** (0.04)	0.07 (0.06)
Impression Count (Log)	-0.14*** (0.01)	-0.14*** (0.03)	-0.20*** (0.02)	-0.12*** (0.03)
Time to Election	-0.01*** (0.00)	-0.00* (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
AIC	52485.50	8197.21	12482.11	6499.90
BIC	52623.37	8335.08	12619.98	6637.77
Log Likelihood	-26230.75	-4086.60	-6229.05	-3237.95
Deviance	52461.50	8173.21	12458.11	6475.90
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

Table A5: Logistic Regression Models on Hate Speech (Female $\times$ Race)

DV:	<i>Hate All</i>	<i>Religion</i>	<i>Race</i>	<i>Sexuality</i>
Intercept	237.46*** (11.24)	41.38 (33.64)	188.09*** (26.21)	156.08*** (40.76)
Female	1.95*** (0.05)	0.54*** (0.13)	1.21*** (0.12)	0.68*** (0.13)
Black	1.64*** (0.07)	1.38*** (0.19)	1.99*** (0.14)	−0.61* (0.34)
Hispanic	0.95*** (0.13)	−0.38 (0.37)	0.98*** (0.31)	−0.15 (0.38)
Asian	1.84*** (0.16)	1.07** (0.47)	1.36*** (0.33)	1.65*** (0.26)
Democratic	−1.11*** (0.05)	−1.06*** (0.14)	−0.53*** (0.10)	−0.50*** (0.13)
Senate	−1.19*** (0.07)	−0.42** (0.19)	−1.52*** (0.17)	−0.66*** (0.17)
Incumbency	−0.12 (0.08)	0.61** (0.27)	−0.41** (0.17)	−0.55*** (0.19)
Follower Count (Log)	0.03** (0.02)	0.20*** (0.05)	0.07** (0.04)	0.13** (0.05)
Tweet Count (Log)	0.30*** (0.02)	0.20*** (0.06)	0.12*** (0.04)	0.06 (0.06)
Impression Count (Log)	−0.14*** (0.01)	−0.14*** (0.03)	−0.20*** (0.02)	−0.12*** (0.03)
Time to Election	−0.01*** (0.00)	−0.00 (0.00)	−0.01*** (0.00)	−0.01*** (0.00)
Female:Black	0.19** (0.08)	1.03*** (0.21)	0.04 (0.15)	1.45*** (0.36)
Female:Hispanic	−0.95*** (0.15)	0.36 (0.46)	−0.86** (0.36)	−1.17** (0.55)
Female:Asian	−1.09*** (0.20)	0.15 (0.65)	−0.79* (0.47)	−2.06*** (0.76)
AIC	52416.09	8176.90	12479.51	6464.35
BIC	52588.43	8349.24	12651.85	6636.69
Log Likelihood	−26193.05	−4073.45	−6224.75	−3217.18
Deviance	52386.09	8146.90	12449.51	6434.35
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

Table A6: Logistic Regression Models on Hate Speech (Female $\times$ Race $\times$ Party)

DV:	<i>Hate All</i>	<i>Religion</i>	<i>Race</i>	<i>Sexuality</i>
Intercept	231.71*** (11.22)	37.28 (33.61)	182.50*** (26.13)	153.88*** (40.75)
Female	2.40*** (0.05)	0.88*** (0.14)	1.86*** (0.14)	1.03*** (0.15)
Black	1.40*** (0.16)	-12.31 (170.53)	2.61*** (0.22)	0.36 (0.46)
Hispanic	1.30*** (0.14)	-0.41 (0.39)	1.56*** (0.35)	0.28 (0.40)
Asian	0.10 (1.00)	-10.97 (352.90)	-9.07 (129.25)	-12.14 (354.93)
Democratic	0.51*** (0.08)	-0.53** (0.22)	0.87*** (0.17)	0.12 (0.19)
Senate	-1.28*** (0.07)	-0.45** (0.19)	-1.67*** (0.18)	-0.71*** (0.18)
Incumbency	-0.13* (0.08)	0.64** (0.27)	-0.43** (0.17)	-0.53*** (0.19)
Follower Count (Log)	0.03* (0.02)	0.23*** (0.05)	0.05 (0.04)	0.08 (0.05)
Tweet Count (Log)	0.33*** (0.02)	0.17*** (0.06)	0.17*** (0.05)	0.12* (0.07)
Impression Count (Log)	-0.14*** (0.01)	-0.14*** (0.03)	-0.20*** (0.02)	-0.11*** (0.03)
Time to Election	-0.01*** (0.00)	-0.00 (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
Female:Black	-11.12 (144.54)	1.41 (1761.02)	-14.06 (648.16)	-13.44 (1769.25)
Female:Hispanic	-3.44*** (1.01)	-12.48 (561.60)	-1.89* (1.07)	-13.79 (563.83)
Female:Asian	-10.56 (53.20)	-1.47 (738.60)	-2.51 (271.65)	-0.96 (744.26)
Female:Democratic	-2.41*** (0.10)	-1.91*** (0.37)	-2.31*** (0.24)	-1.14*** (0.27)
Black:Democratic	-0.95*** (0.18)	13.53 (170.53)	-1.71*** (0.28)	-1.88*** (0.67)
Hispanic:Democratic	-1.57*** (0.44)	0.83 (1.10)	-1.80** (0.80)	-12.65 (193.75)
Asian:Democratic	0.62 (1.02)	11.65 (352.90)	9.58 (129.25)	13.58 (354.93)
Female:Black:Democratic	13.14 (144.54)	0.87 (1761.02)	15.82 (648.16)	16.14 (1769.25)
Female:Hispanic:Democratic	4.35*** (1.10)	13.11 (561.60)	2.89** (1.31)	25.25 (596.19)
Female:Asian:Democratic	11.42 (53.20)	3.19 (738.60)	3.37 (271.65)	-0.39 (744.26)
AIC	51858.22	8122.86	12394.45	6445.11
BIC	52110.98	8375.62	12647.21	6697.87
Log Likelihood	-25907.11	-4039.43	-6175.23	-3200.55
Deviance	51814.22	8078.86	12350.45	6401.11
Num. obs.	721540	721540	721540	721540

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$