Preliminary GLM model outputs for sexist terminology across google trends and twitter

Among this we find that STD deaths in an area are strongly associated with increased usage of sexist terminology

Twitter negative sentiment

stats::glm(formula = scale(neg) ~ scale(ASC\_median\_income\_LOG) +

scale(GINI\_ACS\_2008\_2012) + scale(Population\_Density\_land\_Sq\_m) +

Confederate\_State + Ratio\_exposure\_Black\_White + nonwhite +

twitsex$std\_deaths + percent + mean\_rnr, data = twitsl)

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) -1.613938 0.779088 -2.072 0.04533 \*

scale(ASC\_median\_income\_LOG) 0.129809 0.153436 0.846 0.40298

scale(GINI\_ACS\_2008\_2012) -0.009504 0.142215 -0.067 0.94708

scale(Population\_Density\_land\_Sq\_m) 0.250618 0.117640 2.130 0.03985 \*

Confederate\_State -0.835947 0.340427 -2.456 0.01889 \*

Ratio\_exposure\_Black\_White -0.020854 0.006015 -3.467 0.00135 \*\*

nonwhite 0.256497 0.150991 1.699 0.09776 .

twitsex$std\_deaths 0.148523 0.059274 2.506 0.01675 \*

percent -0.343138 0.218056 -1.574 0.12409

mean\_rnr 0.242235 0.097670 2.480 0.01781 \*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 0.3092948)

Null deviance: 46.000 on 46 degrees of freedom

Residual deviance: 11.444 on 37 degrees of freedom

AIC: 88.984

Number of Fisher Scoring iterations: 2

Google Trends word usage: hoe

stats::glm(formula = scale(hoe) ~ scale(ASC\_median\_income\_LOG) +

scale(GINI\_ACS\_2008\_2012) + scale(Population\_Density\_land\_Sq\_m) +

Confederate\_State + Ratio\_exposure\_Black\_White + nonwhite +

twitsex$std\_deaths + percent + mean\_rnr, data = twitsl)

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) -1.413260 0.643365 -2.197 0.034386 \*

scale(ASC\_median\_income\_LOG) -0.465428 0.126706 -3.673 0.000753 \*\*\*

scale(GINI\_ACS\_2008\_2012) -0.091344 0.117440 -0.778 0.441637

scale(Population\_Density\_land\_Sq\_m) 0.059344 0.097146 0.611 0.545017

Confederate\_State -0.824626 0.281122 -2.933 0.005727 \*\*

Ratio\_exposure\_Black\_White -0.011633 0.004967 -2.342 0.024670 \*

nonwhite 0.255202 0.124687 2.047 0.047836 \*

twitsex$std\_deaths 0.146997 0.048948 3.003 0.004770 \*\*

percent 0.077137 0.180069 0.428 0.670860

mean\_rnr 0.220375 0.080655 2.732 0.009584 \*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for gaussian family taken to be 0.2109182)

Null deviance: 46.000 on 46 degrees of freedom

Residual deviance: 7.804 on 37 degrees of freedom

AIC: 70.991

Number of Fisher Scoring iterations: 2

Preliminary outputs for ANES dataset and homophobia

Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']

Family: binomial ( logit )

Formula: homophobia\_cat ~ scale(Ratio\_exposure\_Black\_White) + scale(Population\_Density\_land\_Sq\_m) +

scale(GINI\_ACS\_2008\_2012) + scale(ASC\_median\_income\_LOG) +

scale(nonwhite) + scale(percent) + a224$Us\_Parasite.x + rel\_cat +

political\_orientation + age + race + edu\_7 + mean\_rnr + Confederate\_State + (1 | state)

Data: a224

AIC BIC logLik deviance df.resid

29866.6 29996.6 -14917.3 29834.6 24884

Scaled residuals:

Min 1Q Median 3Q Max

-2.3402 -0.7320 -0.4883 0.9942 4.5351

Random effects:

Groups Name Variance Std.Dev.

state (Intercept) 0.03498 0.187

Number of obs: 24900, groups: state, 50

Fixed effects:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -0.20367 0.23491 -0.867 0.3859

scale(Ratio\_exposure\_Black\_White) -0.04452 0.02930 -1.519 0.1287

scale(Population\_Density\_land\_Sq\_m) -0.07552 0.04403 -1.715 0.0863 .

scale(GINI\_ACS\_2008\_2012) -0.06009 0.05005 -1.201 0.2299

scale(ASC\_median\_income\_LOG) -0.13223 0.05744 -2.302 0.0213 \*

scale(nonwhite) 0.13693 0.06650 2.059 0.0395 \*

scale(percent) 0.15546 0.09649 1.611 0.1072

a224$Us\_Parasite.x 0.11682 0.06469 1.806 0.0709 .

rel\_catnon -0.72024 0.03232 -22.287 < 2e-16 \*\*\*

political\_orientation 0.30304 0.01469 20.635 < 2e-16 \*\*\*

age 0.16788 0.01437 11.680 < 2e-16 \*\*\*

race 0.06759 0.01507 4.484 7.31e-06 \*\*\*

edu\_7 -0.35183 0.01558 -22.585 < 2e-16 \*\*\*

mean\_rnr -0.02997 0.04391 -0.682 0.4950

Confederate\_State -0.05668 0.13335 -0.425 0.6708

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1