**Documentation for Replication of Weaving It In: How Political Radio Reacts to Events**

**Clara Vandeweerdt**

All files results, figures and regression tables are already present in this replication packet. In addition, it contains the scripts to generate these, and the intermediary steps towards them.

Most scripts contain data cleaning and analysis procedures for one topic (climate, gun policy, immigration) at a time. When this is the case, the scripts contain the following line just after the preamble:

topic <- …

where topic can be set to clim for climate, gun for gun policy, immi for immigration.

All scripts are written to be run from the directory they are in—that is, the working directory should be the script’s own directory.

Please report any bugs to clara.vandeweerdt@ifs.ku.dk.

**Replication procedure**

1. Data cleaning

Run the script dataclean.R, which generates a file named mentions\_showweek\_[topic].csv in the data folder. This file contains one row per show-week for that topic (meaning that for each show, and for each event, there is one pre-event and one post-event row). Key columns are the number of mentions of the topic (Total), the number of mentions assigned to each frame, and the proportion of non-neutral mentions that are framed as Climate-concerned, Anti-gun, or Tough on immigration (prop\_conc).

Other columns include the event this show-week is connected to, whether it is a pre- or post-event week (prepost), and the probability that a show is political (Prob.political), is liberal (Prob.liberal), and is liberal according to a model *without* NPR shows as training data (Prob.libnoNPR, used in the main analyses).

2. Analyses

Run the script analysis.R, which prints out (1) four-line data frames with predictions of the numbers and frame proportions of mentions on a liberal and a conservative show, pre and- post-event, and (2) hypothesis tests for pre-post change on conservative shows, liberal shows, and any difference in change between them. The script also outputs .csv records of the results into the folder supplementary/ideo\_npr\_app.

At the top of the script, it is possible to change parameters for the certainty needed to classify shows as being political (pol\_thres, .5 by default), the certainty needed to classify shows as having some ideology rather than none (lib\_thres, .5 by default meaning that all political shows will get an ideology), and whether NPR shows are included in the data set and the ideology model training set (NPR, FALSE by default).

Finally, when the parameters are set to their default values, the script outputs .Rdata files containing all model results into the folder regtables, to be used for generating Supplementary Materials Table 4–5. It also calculates bootstrapped confidence intervals around the predicted values of interest, and outputs them as .csv files into the folder predictions\_CIs. These are used for generating the main paper’s figures.

3. Figures (main paper)

Run the script model\_figures.R, which turns the predicted values and CIs in the folder predictions\_CIs into barplots. The plots are outputted into the folder figures.

4. Supplementary materials

All scripts to perform Supplementary Materials analyses are in the folder supplementary. The steps below describe how to reproduce analysis results, but not descriptive tables and figures.

4.1 Figure 4, daily number of topic mentions

Run the script mentions\_Googletrends.R. The plots are outputted into the folder figures.

4.2 Tables 4–5, regression tables

Run the script stargazer\_regtables.R. The plots are outputted into the folder figures.

4.3 Figure 5, long-term effects on attention

Run the script mentions\_Googletrends.R. The plots are outputted into the folder figures.

4.4 Table 6, model predictions with and without NPR

Run the script analysis.R with NPR set to TRUE, and again with NPR to FALSE (see also above). Run the script join\_NPR\_tables.R to create .tex tables in the folder ideo\_npr\_app.

4.4 Table 7 and 8, model predictions with different certainty thresholds for politicalness and ideology classifications

Run analysis.R three times with pol\_thres set to .4, .5 and .6 respectively. Run analysis.R three times with lib\_thres set to .5, .6 and .7 respectively (and pol\_thres back at .5). Run the script join\_ideo\_tables.R to create .tex tables in the folder ideo\_npr\_app.