CSS 205: Final Project Proof of Data

Women's Representation in Politics

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This assignment was completed by Adeline Liem and Harley Clifton, and we are both CSS M.S. students. We will be collaborating on this project together for the rest of the course.

```
# Read in dataset
filepath <- './data/PADD_Agreement_Level_Multiple_Positions.csv'</pre>
df <- read csv(filepath)</pre>
## Rows: 116 Columns: 34
## -- Column specification ------
## Delimiter: ","
         (3): Con, Stage, StageSub
## dbl
       (30): AgtId, GeWom, Mult_Pos_Weight, Del_N, NADel_N, FemDel_Bin, FemDel...
## date
       (1): Dat
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## # A tibble: 116 x 34
##
     Con
              AgtId Dat
                               Stage StageSub GeWom Mult_Pos_Weight Del_N NADel_N
##
                                               <dbl>
                                                               <dbl> <dbl>
                                                                             <dbl>
      <chr>
              <dbl> <date>
                               <chr>
                                     <chr>
  1 Gabon
                  8 1994-10-07 SubCo~ FrAg
                                                   0
                                                                                 0
## 2 Colombia 147 1994-05-26 SubCo~ FrAg
                                                   0
                                                                   1
                                                                        18
                                                                                 0
## 3 Colombia 149 1991-02-15 SubCo~ FrAg
                                                   0
                                                                   1
                                                                        15
                                                                                 0
## 4 Colombia 150 1998-07-29 SubCo~ FrAg
                                                   0
                                                                   1
                                                                        15
                                                                                 0
## 5 Colombia 151 1991-05-27 SubCo~ FrAg
                                                                   1
                                                                        21
                                                                                 0
                                                   1
## 6 Colombia 152 1991-01-25 SubCo~ FrAg
                                                   0
                                                                   1
                                                                        11
                                                                                 0
## 7 Colombia
                163 1991-07-01 SubCo~ FrCons
                                                   1
                                                                   1
                                                                        NA
                                                                                NA
                                                                         7
## 8 Colombia
                168 1990-03-09 SubCo~ FrAg
                                                   0
                                                                   1
                                                                                 0
## 9 Colombia
                                                   0
                                                                         7
                                                                                 0
                173 1994-04-09 SubCo~ FrAg
                                                                   1
## 10 Djibouti
                197 2000-02-07 SubCo~ FrAg
                                                                         2
                                                                                 0
## # i 106 more rows
## # i 25 more variables: FemDel_Bin <dbl>, FemDel_N <dbl>, FemDel_P <dbl>,
      Sig_N <dbl>, FemSig_N <dbl>, FemSig_P <dbl>, Ob_N <dbl>, FemOb_N <dbl>,
## #
      FemOb_P <dbl>, Neg_N <dbl>, FemNeg_N <dbl>, FemNeg_P <dbl>, Med_N <dbl>,
## #
      FemMed_N <dbl>, FemMed_P <dbl>, Log_N <dbl>, FemLog_N <dbl>,
      FemLog_P <dbl>, Adv_N <dbl>, FemAdv_N <dbl>, FemAdv_P <dbl>,
      WomCom_N <dbl>, WomCom_P <dbl>, FemWomCom_N <dbl>, FemWomCom_P <dbl>
## #
```

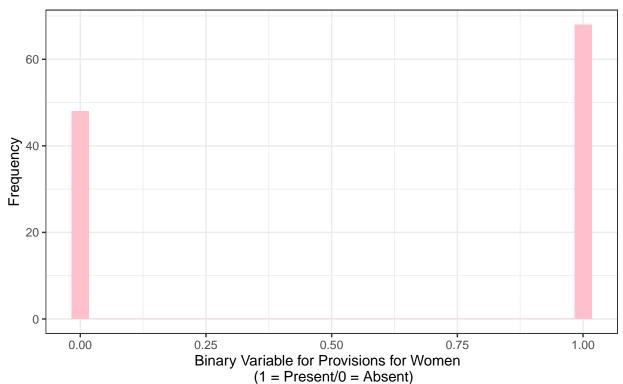
Histogram of the Dependent Variable

Dependent Variable: Provisions for Women (GeWom): Women, girls, and gender

"This is a binary variable, taking the value of 1 if any of the peace agreement provisions are specifically addressing women, their inclusion, and their rights. This includes references to girls, widows, mothers, sexual violence (or forms thereof), gender violence, UNSC 1325 or CEDAW, lactating women. If no such provisions are present in the agreement, the value of the variable is 0" (Bell et al. 2021, 24).

'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.

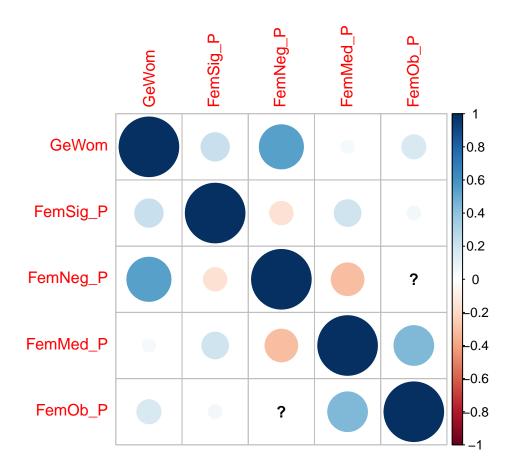
Histogram of Dependent Variable Provisions for Women



Correlation Matrix

A correlation matrix for the DV and IVs that the original authors included in the model you are replicating. Independent Variables: Women signatories (FemSig_P), women negotiators (FemNeg_P), women mediators (FemMed_P), women observers (FemOb_P)

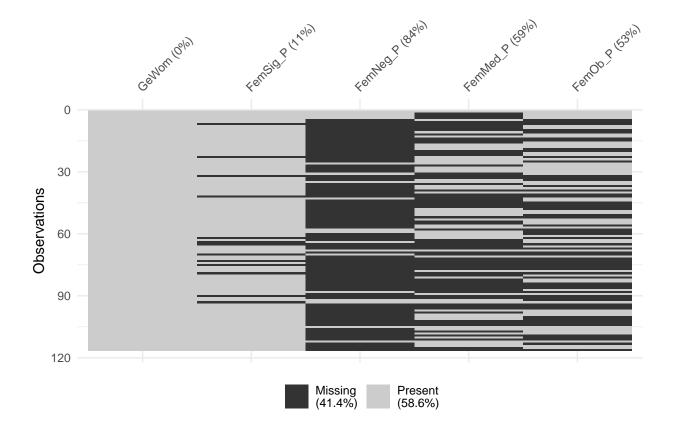
```
# Making subset of the data
dat <- df %>% select(GeWom, FemSig_P, FemNeg_P, FemMed_P, FemOb_P)
# Correlation Matrix
cor(dat, use = 'pairwise.complete.obs')
## Warning in cor(dat, use = "pairwise.complete.obs"): the standard deviation is
## zero
##
                GeWom
                         FemSig_P
                                    FemNeg_P
                                                FemMed P
                                                            FemOb P
## GeWom
           1.00000000 0.22615740 0.5473703 0.04776698 0.16359421
## FemSig_P 0.22615740 1.00000000 -0.1545483 0.20064415 0.05230759
## FemNeg_P 0.54737034 -0.15454826 1.0000000 -0.30089443
## FemMed_P 0.04776698 0.20064415 -0.3008944 1.00000000 0.44321486
## FemOb_P 0.16359421 0.05230759
                                          NA 0.44321486 1.00000000
# Correlation Plot
corrplot(cor(dat, use = 'pairwise.complete.obs'))
## Warning in cor(dat, use = "pairwise.complete.obs"): the standard deviation is
## zero
```



Data Missingness

A visual or tabular depiction of the missingness in the data from part (2); see p. 251-255 of the text.

```
# Generate missingness visualization
vis_miss(dat)
```



Appendix

"I certify that we did not use any LLM or generative AI tool in this assignment"