

220 Project

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```
library(readr)
library(tidyverse)
```

```
## Warning: package 'tibble' was built under R version 3.5.2
```

```
## Warning: package 'tidyr' was built under R version 3.5.2
```

```
## Warning: package 'dplyr' was built under R version 3.5.2
```

```
library(stargazer)
dat <- read_csv("dat.csv")
```

```
## Warning: Missing column names filled in: 'X1' [1]
```

Clean the data and make model spec. variables

```
head(dat)
```

```
## # A tibble: 6 x 62
##       X1 year congress party district statenam name  ngirls nboys totchi
##   <int> <chr>    <int> <int>    <int> <chr>    <chr>  <int> <int>  <int>
## 1     1  1997~    105     1         1 HAWAII  ABER~     0     0     0
## 2     2  1997~    105     1         5 NEW YOR  ACKE~     1     2     3
## 3     3  1997~    105     2         4 ALABAMA ADER~     0     0     0
## 4     4  1997~    105     1         1 MAINE   ALLE~     2     0     2
## 5     5  1997~    105     1         1 NEW JER  ANDR~     2     0     2
## 6     6  1997~    105     2         7 TEXAS   ARCH~     3     4     7
## # ... with 52 more variables: anygirls <int>, propgirls <dbl>,
## #   rgroup <int>, statabb <chr>, statalph <int>, region <int>,
## #   repub <int>, srvlng <int>, female <int>, white <int>, bday <chr>,
## #   age <int>, demvote <dbl>, medinc <int>, perf <dbl>, perw <dbl>,
## #   perhs <dbl>, percol <dbl>, perur <dbl>, alabort <dbl>, moreserv <dbl>,
## #   moredef <dbl>, morecrimesp <dbl>, protgay <dbl>, dr1per <dbl>,
## #   dr2per <dbl>, dr3per <dbl>, dr4per <dbl>, dr5per <dbl>, aaaw <int>,
## #   rtl <int>, nowtot <int>, now1 <int>, now2 <int>, now3 <int>,
## #   now4 <int>, now5 <int>, now6 <int>, now7 <int>, now8 <int>,
## #   now9 <int>, now10 <int>, now11 <int>, now12 <int>, now13 <int>,
## #   now14 <int>, now15 <int>, now16 <int>, now17 <int>, now18 <int>,
## #   now19 <int>, now20 <int>
```

```
dat$age2 <- dat$age^2
dat$srvlng2 <- dat$srvlng^2
dat$rgroup <- factor(dat$rgroup)
prop.table(table(dat$rgroup))
```

```
##
##           0           1           2           3           4
## 0.01379310 0.59425287 0.29425287 0.04022989 0.05747126
```

```
levels(dat$rgroup) <- c("None", "Protestant", "Catholic", "Other Christian", "Other religion")
dat$rgroup <- factor(dat$rgroup, levels = c("Protestant", "None", "Catholic", "Other Christian", "Other religion"))
```

Model with NOW data

```
datNOW <- dat %>%
  filter(congress == 105)

lm.1 <- lm(nowtot ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
  factor(totchi) + factor(region), data = datNOW)
summary(lm.1)
```

```
##
## Call:
## lm(formula = nowtot ~ ngirls + female + white + repub + age +
##      age2 + srvlng + srvlng2 + rgroup + demvote + factor(totchi) +
##      factor(region), data = datNOW)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -51.732  -9.666  -0.456   8.932  62.264
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    17.025463    21.661760   0.786  0.43235
## ngirls          2.299519     1.038119   2.215  0.02732 *
## female        10.838011     2.689784   4.029 6.70e-05 ***
## white          1.860315     3.451382   0.539  0.59018
## repub        -44.902819     2.109021 -21.291 < 2e-16 ***
## age            0.660705     0.799702   0.826  0.40919
## age2         -0.005706     0.007664  -0.745  0.45697
## srvlng         0.235404     0.300004   0.785  0.43311
## srvlng2       -0.008915     0.010147  -0.879  0.38015
## rgroupNone      7.261925     7.022355   1.034  0.30171
## rgroupCatholic  -3.973955     1.940810  -2.048  0.04126 *
## rgroupOther Christian  0.768547     4.600263   0.167  0.86740
## rgroupOther religion 10.866171     3.751570   2.896  0.00398 **
## demvote       84.158438    10.868851   7.743 8.11e-14 ***
## factor(totchi)1    -3.278460     3.497060  -0.937  0.34907
## factor(totchi)2    -5.523599     2.820904  -1.958  0.05092 .
## factor(totchi)3    -7.369559     3.272709  -2.252  0.02488 *
## factor(totchi)4   -11.011583     3.778913  -2.914  0.00377 **
## factor(totchi)5   -10.273736     4.718991  -2.177  0.03006 *
## factor(totchi)6   -12.453781     8.278559  -1.504  0.13329
## factor(totchi)7   -10.634369     9.583229  -1.110  0.26780
## factor(totchi)8   -28.973542    11.297360  -2.565  0.01069 *
## factor(totchi)9   -14.077336    17.660353  -0.797  0.42586
## factor(totchi)10  -23.044561    17.220364  -1.338  0.18159
## factor(region)2   -11.884261     4.095975  -2.901  0.00392 **
## factor(region)3   -13.046715     4.086030  -3.193  0.00152 **
## factor(region)4   -13.586565     4.701898  -2.890  0.00407 **
## factor(region)5   -11.358358     4.222274  -2.690  0.00744 **
## factor(region)6   -22.280800     4.984814  -4.470 1.02e-05 ***
```

```
## factor(region)7      -17.819681    4.523803   -3.939 9.66e-05 ***
## factor(region)8      -15.107737    5.035701   -3.000 0.00287 **
## factor(region)9       -8.186288    4.099879   -1.997 0.04654 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 16.09 on 398 degrees of freedom
## (5 observations deleted due to missingness)
## Multiple R-squared:  0.8199, Adjusted R-squared:  0.8058
## F-statistic: 58.44 on 31 and 398 DF,  p-value: < 2.2e-16
```

Model with AAUW 105th Congress

```
datAAUW105 <- dat %>%
  filter (congress == 105)
lm.2 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
  summary(lm.2)
```

```
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
##      srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##      data = datAAUW105)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -58.930 -11.232  -0.809   8.842  74.928
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    36.450769   23.400913    1.558 0.120100
## ngirls          2.384821    1.123848    2.122 0.034448 *
## female          9.193665    2.910140    3.159 0.001702 **
## white           0.143934    3.675846    0.039 0.968785
## repub        -60.468440    2.280175  -26.519 < 2e-16 ***
## age             0.854420    0.860012    0.993 0.321065
## age2          -0.006414    0.008232   -0.779 0.436377
## srvlng         -0.207689    0.323641   -0.642 0.521416
## srvlng2         0.003581    0.010908    0.328 0.742865
## rgroupNone      5.670655    7.605983    0.746 0.456374
## rgroupCatholic  -4.504837    2.091041   -2.154 0.031806 *
## rgroupOther Christian  3.204342    4.983300    0.643 0.520580
## rgroupOther religion  9.682583    4.047467    2.392 0.017204 *
## demvote        62.147959   11.567940    5.372 1.32e-07 ***
## factor(totchi)1    -3.497354    3.738651   -0.935 0.350113
## factor(totchi)2    -4.408748    3.038459   -1.451 0.147565
## factor(totchi)3    -7.397466    3.526217   -2.098 0.036542 *
## factor(totchi)4   -10.871754    4.061698   -2.677 0.007740 **
## factor(totchi)5   -13.035875    5.093865   -2.559 0.010859 *
## factor(totchi)6   -17.865026    8.953045   -1.995 0.046672 *
## factor(totchi)7   -11.856900   10.376659   -1.143 0.253864
## factor(totchi)8   -43.702778   12.225549   -3.575 0.000393 ***
## factor(totchi)9   -15.928693   19.124351   -0.833 0.405395
```

```
## factor(totchi)10      -26.659436  18.646598  -1.430  0.153574
## factor(region)2       -9.286950   4.408594  -2.107  0.035775 *
## factor(region)3      -12.576558   4.421819  -2.844  0.004680 **
## factor(region)4       -7.869625   5.086779  -1.547  0.122632
## factor(region)5      -10.056063   4.565364  -2.203  0.028184 *
## factor(region)6      -19.685949   5.393746  -3.650  0.000297 ***
## factor(region)7      -15.546480   4.887668  -3.181  0.001583 **
## factor(region)8      -16.451153   5.450929  -3.018  0.002706 **
## factor(region)9       -8.656789   4.432920  -1.953  0.051532 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 17.44 on 402 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.84, Adjusted R-squared:  0.8276
## F-statistic: 68.06 on 31 and 402 DF,  p-value: < 2.2e-16
```

Model with AAUW 106th Congress

```
datAAUW106 <- dat %>%
  filter (congress == 106)
lm.3 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
  summary(lm.3)
```

```
##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
##     srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##     data = datAAUW106)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -68.861 -12.254  -0.263  10.379  77.986
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      9.384230   25.004019   0.375  0.707628
## ngirls           1.687779    1.135634   1.486  0.138008
## female          10.440223    2.881348   3.623  0.000328 ***
## white           2.594087    3.833331   0.677  0.498973
## repub          -55.927128    2.335258 -23.949 < 2e-16 ***
## age              2.034389    0.901753   2.256  0.024604 *
## age2            -0.018305    0.008505  -2.152  0.031961 *
## srvlng          -0.726083    0.379992  -1.911  0.056742 .
## srvlng2          0.024968    0.012860   1.941  0.052895 .
## rgroupNone       5.352528    7.790652   0.687  0.492450
## rgroupCatholic  -2.276623    2.128764  -1.069  0.285504
## rgroupOther Christian  1.690461    4.912183   0.344  0.730923
## rgroupOther religion 11.889799    4.342803   2.738  0.006459 **
## demvote          57.436919   12.017562   4.779  2.47e-06 ***
## factor(totchi)1    -5.469827    3.752974  -1.457  0.145767
## factor(totchi)2    -5.402323    3.150248  -1.715  0.087134 .
## factor(totchi)3    -6.654154    3.649826  -1.823  0.069022 .
```

```
## factor(totchi)4      -10.650334    4.337895   -2.455 0.014503 *
## factor(totchi)5      -11.565357    5.110870   -2.263 0.024174 *
## factor(totchi)6      -20.394694   10.255307   -1.989 0.047411 *
## factor(totchi)7      -10.534574   10.152137   -1.038 0.300046
## factor(totchi)8      -29.255772   12.752995   -2.294 0.022302 *
## factor(totchi)10     -13.980355   19.157892   -0.730 0.465971
## factor(region)2      -3.234622    4.482938   -0.722 0.470995
## factor(region)3      -12.105109    4.486371   -2.698 0.007265 **
## factor(region)4      -8.518744    5.213591   -1.634 0.103050
## factor(region)5      -6.371197    4.671525   -1.364 0.173380
## factor(region)6      -13.846102    5.484528   -2.525 0.011967 *
## factor(region)7      -15.202413    4.974428   -3.056 0.002391 **
## factor(region)8      -14.357427    5.641486   -2.545 0.011301 *
## factor(region)9      -5.079990    4.553775   -1.116 0.265277
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 17.88 on 403 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.8144, Adjusted R-squared:  0.8006
## F-statistic: 58.95 on 30 and 403 DF, p-value: < 2.2e-16
```

Model with AAUW 107th Congress

```
datAAUW107 <- dat %>%
  filter (congress == 107)
lm.4 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
summary(lm.4)

##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
##     srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##     data = datAAUW107)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -79.797  -7.674   0.000   7.851  79.645
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.745e+01  2.191e+01   1.252 0.211141
## ngirls         2.421e+00  1.092e+00   2.217 0.027194 *
## female         7.564e+00  2.618e+00   2.889 0.004069 **
## white        -2.626e+00  3.150e+00  -0.834 0.404940
## repub        -6.322e+01  2.120e+00 -29.820 < 2e-16 ***
## age           1.298e+00  7.990e-01   1.624 0.105074
## age2          -1.152e-02  7.466e-03  -1.543 0.123695
## srvlng        -1.001e-01  3.457e-01  -0.289 0.772363
## srvlng2       -1.683e-04  1.110e-02  -0.015 0.987905
## rgroupNone      7.027e+00  7.176e+00   0.979 0.328088
## rgroupCatholic -4.016e+00  1.987e+00  -2.021 0.043926 *
## rgroupOther Christian 1.646e+00  4.491e+00   0.367 0.714184
```

```
## rgroupOther religion    1.029e+01  3.785e+00   2.718 0.006859 **
## demvote                 5.621e+01  9.092e+00   6.182 1.56e-09 ***
## factor(totchi)1        -1.611e+00  3.378e+00  -0.477 0.633804
## factor(totchi)2        -3.251e+00  2.938e+00  -1.106 0.269226
## factor(totchi)3        -6.314e+00  3.465e+00  -1.822 0.069177 .
## factor(totchi)4        -8.223e+00  4.033e+00  -2.039 0.042116 *
## factor(totchi)5        -9.637e+00  4.836e+00  -1.992 0.046992 *
## factor(totchi)6        -2.121e+01  9.432e+00  -2.249 0.025049 *
## factor(totchi)7        -1.000e+00  1.053e+01  -0.095 0.924357
## factor(totchi)8        -2.079e+01  1.197e+01  -1.737 0.083078 .
## factor(totchi)9        -2.467e+01  1.928e+01  -1.279 0.201489
## factor(totchi)10       -1.559e+01  1.777e+01  -0.877 0.381083
## factor(region)2        -4.331e+00  4.132e+00  -1.048 0.295162
## factor(region)3        -9.906e+00  4.142e+00  -2.392 0.017233 *
## factor(region)4        -3.831e+00  4.891e+00  -0.783 0.433945
## factor(region)5        -1.001e+01  4.330e+00  -2.311 0.021320 *
## factor(region)6        -1.798e+01  5.075e+00  -3.543 0.000442 ***
## factor(region)7        -8.571e+00  4.747e+00  -1.805 0.071752 .
## factor(region)8        -8.901e+00  5.193e+00  -1.714 0.087306 .
## factor(region)9        -5.677e+00  4.203e+00  -1.351 0.177493
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 16.49 on 402 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.8649, Adjusted R-squared:  0.8545
## F-statistic: 83.03 on 31 and 402 DF, p-value: < 2.2e-16
```

Model with AAUW 107th Congress

```
datAAUW108 <- dat %>%
  filter(congress == 108)
lm.5 <- lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvote +
summary(lm.5)

##
## Call:
## lm(formula = aauw ~ ngirls + female + white + repub + age + age2 +
##     srvlng + srvlng2 + rgroup + demvote + factor(totchi) + factor(region),
##     data = datAAUW108)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -76.876  -9.159  -0.796   9.686  78.595
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.869862   24.069084   0.078 0.938116
## ngirls          2.250368    1.145479   1.965 0.050156 .
## female          6.908988    2.730097   2.531 0.011767 *
## white           1.938711    3.210661   0.604 0.546295
## repub          -63.931869    2.436017 -26.244 < 2e-16 ***
## age             2.300460    0.860041   2.675 0.007784 **
```

```
## age2 -0.020665 0.007987 -2.587 0.010024 *
## srvlng -0.138930 0.326509 -0.426 0.670700
## srvlng2 0.004479 0.010171 0.440 0.659920
## rgroupNone -7.137120 7.499321 -0.952 0.341823
## rgroupCatholic -5.467578 2.077421 -2.632 0.008819 **
## rgroupOther Christian 3.873688 4.683620 0.827 0.408690
## rgroupOther religion 3.156054 3.959417 0.797 0.425865
## demvote 66.950320 10.888708 6.149 1.89e-09 ***
## factor(totchi)1 -7.450581 3.634887 -2.050 0.041041 *
## factor(totchi)2 -8.891984 3.118601 -2.851 0.004580 **
## factor(totchi)3 -14.094729 3.622081 -3.891 0.000117 ***
## factor(totchi)4 -10.660337 4.324511 -2.465 0.014117 *
## factor(totchi)5 -16.514534 5.315221 -3.107 0.002025 **
## factor(totchi)6 -24.936074 9.858029 -2.530 0.011805 *
## factor(totchi)7 -2.564773 11.019008 -0.233 0.816068
## factor(totchi)8 -25.529296 12.548549 -2.034 0.042566 *
## factor(totchi)9 -42.548910 20.181228 -2.108 0.035623 *
## factor(totchi)10 -14.668008 18.636690 -0.787 0.431719
## factor(totchi)12 -26.442540 19.525851 -1.354 0.176427
## factor(region)2 -8.727198 4.452392 -1.960 0.050676 .
## factor(region)3 -12.943889 4.482627 -2.888 0.004093 **
## factor(region)4 -11.613990 5.206694 -2.231 0.026262 *
## factor(region)5 -13.680979 4.556604 -3.002 0.002846 **
## factor(region)6 -20.166479 5.442755 -3.705 0.000241 ***
## factor(region)7 -11.724006 5.084689 -2.306 0.021636 *
## factor(region)8 -16.528372 5.368109 -3.079 0.002220 **
## factor(region)9 -10.709793 4.449345 -2.407 0.016534 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 17.23 on 400 degrees of freedom
## (2 observations deleted due to missingness)
## Multiple R-squared: 0.8586, Adjusted R-squared: 0.8473
## F-statistic: 75.92 on 32 and 400 DF, p-value: < 2.2e-16
```

Put all models in a stargazer table

```
stargazer(lm.1, lm.2, lm.3, lm.4, lm.5, title = "Table 2-Impact of Female Children on Legislator Voting
```

Table 3 Replication

NOW all legislators

```
lm_all_NOW<-lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvote
lm_all_NOW$coefficients[2]

##   ngirls
## 2.299519
```

Table 1: Replication of Table 2—Impact of Female Children on Legislator Voting on Women's Issues

	<i>Dependent variable:</i>				
	NOW	AAUW			
	105th (1)	105th (2)	106th (3)	107th (4)	108th (5)
Number of female children	2.300** (1.038)	2.385** (1.124)	1.688 (1.136)	2.421** (1.092)	2.250* (1.145)
Female	10.838*** (2.690)	9.194*** (2.910)	10.440*** (2.881)	7.564*** (2.618)	6.909** (2.730)
White	1.860 (3.451)	0.144 (3.676)	2.594 (3.833)	−2.626 (3.150)	1.939 (3.211)
Republican	−44.903*** (2.109)	−60.468*** (2.280)	−55.927*** (2.335)	−63.216*** (2.120)	−63.932*** (2.436)
Age	0.661 (0.800)	0.854 (0.860)	2.034** (0.902)	1.298 (0.799)	2.300*** (0.860)
Age squared	−0.006 (0.008)	−0.006 (0.008)	−0.018** (0.009)	−0.012 (0.007)	−0.021** (0.008)
Service Length	0.235 (0.300)	−0.208 (0.324)	−0.726* (0.380)	−0.100 (0.346)	−0.139 (0.327)
Service length squared	−0.009 (0.010)	0.004 (0.011)	0.025* (0.013)	−0.0002 (0.011)	0.004 (0.010)
No religion	7.262 (7.022)	5.671 (7.606)	5.353 (7.791)	7.027 (7.176)	−7.137 (7.499)
Catholic	−3.974** (1.941)	−4.505** (2.091)	−2.277 (2.129)	−4.016** (1.987)	−5.468*** (2.077)
Other Christian	0.769 (4.600)	3.204 (4.983)	1.690 (4.912)	1.646 (4.491)	3.874 (4.684)
Other religion	10.866*** (3.752)	9.683** (4.047)	11.890*** (4.343)	10.286*** (3.785)	3.156 (3.959)
Democratic vote share in district	84.158*** (10.869)	62.148*** (11.568)	57.437*** (12.018)	56.206*** (9.092)	66.950*** (10.889)
N	430	434	434	434	433

Note:

*p<0.1; **p<0.05; ***p<0.01

NOW Men only

```
lm_men_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_men_NOW$coefficients[2]
```

```
##   ngirls  
## 2.484019
```

NOW Women only

```
lm_women_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_women_NOW$coefficients[2]
```

```
##   ngirls  
## -1.671572
```

NOW Dems only

```
lm_Dem_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_Dem_NOW$coefficients[2]
```

```
##   ngirls  
## 2.931423
```

NOW Repubs only

```
lm_Repub_NOW <- lm(nowtot~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_Repub_NOW$coefficients[2]
```

```
##   ngirls  
## 1.278677
```

AAUW All

```
lm_all_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_all_AAUW$coefficients[2]
```

```
##   ngirls  
## 2.384821
```

AAUW Men only

```
lm_men_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_men_AAUW$coefficients[2]
```

```
##   ngirls  
## 2.486103
```

AAUW Women only

```
lm_women_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot  
lm_women_AAUW$coefficients[2]
```

```
##    ngirls
## -3.899658
```

AAUW Dems only

```
lm_Dem_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot
lm_Dem_AAUW$coefficients[2]

##    ngirls
## 2.219818
```

AAUW Repubs only

```
lm_Repub_AAUW <- lm(aauw~ngirls + female + white + repub + age + age2 + srvlng + srvlng2+ rgroup + demvot
lm_Repub_AAUW$coefficients[2]

##    ngirls
## 1.83106
```

Make the table

Table 2: Replication of Table 3—Impact of Female Children on Legislator Voting on Women’s Issues, by Legislator Gender and Party

(Each cell presents the coefficient on number of daughters from a different regression)

Data Source	All Legislators	Gender		Party	
		Men	Women	Democrats	Republicans
NOW, 105th Congress	2.3** (1.04) [430]	2.48** (1.09) [382]	-1.67 (5.64) [48]	2.93* (1.6) [204]	1.28* (1.32) [226]
AAUW, 105th Congress	2.38** (1.12) [434]	2.49** (1.17) [386]	-3.9 (6.41) [48]	2.22 (1.44) [207]	1.83 (1.56) [227]

Note:

*p<0.1; **p<0.05; ***p<0.01

Extensions

Ext2: Use whether ever having a female child instead of number of female children.

```
lm_ext2_105 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvot
lm_ext2_106 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvot
lm_ext2_107 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvot
lm_ext2_108 <-lm(aauw ~ anygirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demvot

summary(lm_ext2_105)
summary(lm_ext2_106)
summary(lm_ext2_107)
```

```
summary(lm_ext2_108)
stargazer(lm_ext2_105, lm_ext2_106, lm_ext2_107, lm_ext2_108)
```

Table 3: Impact of Having Any Female Children on Legislator Voting on Women's Issues

	<i>Dependent variable:</i>			
	AAUW			
	(1)	(2)	(3)	(4)
Has Female Child	4.400* (2.661)	3.252 (2.565)	2.318 (2.396)	1.609 (2.468)
Female	9.174*** (2.918)	10.456*** (2.883)	7.503*** (2.631)	6.907** (2.743)
White	0.035 (3.683)	2.538 (3.837)	-2.744 (3.165)	1.794 (3.226)
Republican	-60.542*** (2.285)	-56.008*** (2.337)	-63.410*** (2.129)	-63.919*** (2.448)
Age	0.834 (0.863)	2.001** (0.903)	1.353* (0.803)	2.312*** (0.864)
Age squared	-0.006 (0.008)	-0.018** (0.009)	-0.012 (0.007)	-0.021** (0.008)
Service Length	-0.239 (0.324)	-0.748* (0.381)	-0.092 (0.349)	-0.127 (0.328)
Service Length squared	0.004 (0.011)	0.026** (0.013)	-0.001 (0.011)	0.004 (0.010)
No Religion	5.492 (7.626)	4.782 (7.804)	6.681 (7.221)	-7.286 (7.541)
Catholic	-4.613** (2.095)	-2.323 (2.130)	-3.969** (1.997)	-5.356** (2.085)
Other Christian	3.085 (4.998)	1.336 (4.932)	1.136 (4.516)	3.422 (4.707)
Other religion	9.506** (4.059)	11.705*** (4.345)	10.274*** (3.805)	3.278 (3.976)
Democratic vote share in district	62.510*** (11.594)	57.591*** (12.025)	56.325*** (9.148)	67.648*** (10.962)
Observations	434	434	434	433
R ²	0.839	0.814	0.864	0.857
Adjusted R ²	0.827	0.800	0.853	0.846

Note:

*p<0.1; **p<0.05; ***p<0.01

Ext3: Use proportion of female children instead of number of female children

```
lm_ext3_105 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext3_106 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext3_107 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext3_108 <-lm(aauw ~ propgirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv

summary(lm_ext3_105)
summary(lm_ext3_106)
summary(lm_ext3_107)
summary(lm_ext3_108)
stargazer(lm_ext3_105, lm_ext3_106, lm_ext3_107, lm_ext3_108)
```

Ext4: Add an interaction term between “girls” and female representatives.

```
lm_ext4_105 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_106 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_107 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext4_108 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv

summary(lm_ext4_105)
summary(lm_ext4_106)
summary(lm_ext4_107)
summary(lm_ext4_108)
stargazer(lm_ext4_105, lm_ext4_106, lm_ext4_107, lm_ext4_108)
```

Ext5: Add an interaction term between “girls” and political parties.

```
lm_ext5_105 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_106 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_107 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv
lm_ext5_108 <-lm(aauw ~ ngirls + female + white + repub + age + age2 + srvlng + srvlng2 + rgroup + demv

summary(lm_ext5_105)
summary(lm_ext5_106)
summary(lm_ext5_107)
summary(lm_ext5_108)
stargazer(lm_ext5_105, lm_ext5_106, lm_ext5_107, lm_ext5_108)
```

Table 4: Impact of the Proportion of Female Children on Legislator Voting on Women's Issues

	<i>Dependent variable:</i>			
	AAUW			
	(1)	(2)	(3)	(4)
Proportion of Girls	6.922** (2.907)	4.764* (2.847)	4.728* (2.645)	4.110 (2.749)
Female	9.284*** (2.905)	10.563*** (2.879)	7.643*** (2.625)	6.995** (2.737)
White	-0.035 (3.670)	2.389 (3.833)	-2.737 (3.156)	1.760 (3.218)
Republican	-60.373*** (2.278)	-55.879*** (2.334)	-63.251*** (2.124)	-63.936*** (2.441)
Age	0.876 (0.859)	2.056** (0.901)	1.354* (0.800)	2.307*** (0.862)
Age squared	-0.007 (0.008)	-0.019** (0.008)	-0.012 (0.007)	-0.021** (0.008)
Service Length	-0.227 (0.323)	-0.747* (0.380)	-0.114 (0.347)	-0.136 (0.327)
Service Length squared	0.004 (0.011)	0.026** (0.013)	0.0002 (0.011)	0.004 (0.010)
No religion	5.665 (7.595)	5.135 (7.785)	6.803 (7.193)	-7.274 (7.516)
Catholic	-4.535** (2.088)	-2.250 (2.127)	-3.937** (1.991)	-5.412*** (2.081)
Other Christian	3.213 (4.976)	1.510 (4.912)	1.338 (4.498)	3.618 (4.691)
Other religion	9.781** (4.042)	11.955*** (4.340)	10.331*** (3.793)	3.239 (3.967)
Democratic vote in district	62.280*** (11.551)	57.199*** (12.013)	56.133*** (9.116)	67.071*** (10.920)
Observations	434	434	434	433
R ²	0.840	0.815	0.864	0.858
Adjusted R ²	0.828	0.801	0.854	0.847

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 5: Impact of Number of Female Children on Legislator's Women's Issues Voting Record (including interaction b/w number of female children and sex of legislator)

	<i>Dependent variable:</i>			
	AAUW			
	(1)	(2)	(3)	(4)
Number of female children	2.530** (1.165)	1.123 (1.180)	2.110* (1.133)	2.082* (1.193)
Number of female children*female	-1.272 (2.671)	4.369* (2.547)	2.487 (2.429)	1.260 (2.476)
Female	10.924** (4.657)	4.950 (4.301)	4.886 (3.700)	5.517 (3.866)
White	0.328 (3.700)	1.994 (3.840)	-2.975 (3.168)	1.804 (3.224)
Republican	-60.434*** (2.284)	-55.997*** (2.330)	-63.167*** (2.120)	-63.955*** (2.439)
Age	0.833 (0.862)	2.100** (0.900)	1.394* (0.804)	2.333*** (0.863)
Age squared	-0.006 (0.008)	-0.019** (0.008)	-0.012* (0.008)	-0.021*** (0.008)
Service Length	-0.200 (0.324)	-0.741* (0.379)	-0.133 (0.347)	-0.149 (0.327)
Service Length squared	0.003 (0.011)	0.026** (0.013)	0.001 (0.011)	0.005 (0.010)
No religion	5.510 (7.621)	6.552 (7.803)	7.643 (7.201)	-6.869 (7.525)
Catholic	-4.549** (2.095)	-2.136 (2.125)	-3.856* (1.993)	-5.428*** (2.081)
Other Christian	3.132 (4.990)	1.732 (4.900)	1.819 (4.494)	3.994 (4.694)
Other religion	9.677** (4.051)	12.284*** (4.338)	10.596*** (3.797)	3.258 (3.968)
Democratic vote in district	62.512*** (11.604)	56.569*** (11.999)	55.796*** (9.100)	66.884*** (10.900)
Observations	434	434	434	433
R ²	0.840	0.816	0.865	0.859
Adjusted R ²	0.827	0.802	0.855	0.847

Note:

*p<0.1; **p<0.05; ***p<0.01

Table 6: Impact of Number of Female Children on Legislator's Women's Issues Voting Record (including interaction b/w number of female children and party of legislator)

	<i>Dependent variable:</i>			
	AAUW			
	(1)	(2)	(3)	(4)
Number of female children	1.028 (1.392)	0.578 (1.420)	1.600 (1.333)	1.322 (1.427)
Number of female children*Republican	2.652 (1.611)	2.176 (1.674)	1.729 (1.613)	1.888 (1.732)
Female	9.206*** (2.904)	10.351*** (2.880)	7.529*** (2.617)	6.705** (2.736)
White	0.034 (3.669)	2.853 (3.835)	-2.412 (3.156)	1.865 (3.211)
Republican	-63.478*** (2.919)	-58.468*** (3.044)	-65.210*** (2.820)	-65.951*** (3.059)
Age	0.837 (0.858)	2.061** (0.901)	1.292 (0.799)	2.344*** (0.861)
Age squared	-0.006 (0.008)	-0.019** (0.008)	-0.011 (0.007)	-0.021*** (0.008)
Service Length	-0.168 (0.324)	-0.717* (0.380)	-0.084 (0.346)	-0.145 (0.326)
Service Length squared	0.003 (0.011)	0.025* (0.013)	-0.001 (0.011)	0.005 (0.010)
No religion	5.842 (7.591)	4.667 (7.802)	6.469 (7.194)	-7.562 (7.508)
Catholic	-4.302** (2.090)	-2.199 (2.128)	-4.050** (1.987)	-5.467*** (2.077)
Other Christian	2.689 (4.983)	1.525 (4.910)	1.730 (4.491)	3.912 (4.683)
Other religion	9.815** (4.040)	11.757*** (4.340)	10.143*** (3.787)	3.203 (3.959)
Democratic vote in district	63.228*** (11.562)	58.599*** (12.041)	56.980*** (9.119)	67.677*** (10.907)
Observations	434	434	434	433
R ²	0.841	0.815	0.865	0.859
Adjusted R ²	0.828	0.801	0.855	0.847

Note:

*p<0.1; **p<0.05; ***p<0.01