Geographic Representation and Requests for Federal Funds in the U.S. Senate (Main Text Analysis 3)

Jacyln Kaslovsky and Andrew R. Stone

Load the data

```
# Loading the data
load("county_level_allocation_data.RData")
```

Table 3 Descriptives

```
# Limit to the observations that have all variables
senators_appropriations_matched <- senators_appropriations_matched[!is.na(senators_appropriations_matche

# Descriptives on how many fulfilled at greater than 100%: About 1.4 percent of requests are fulfilled
round(length(which(senators_appropriations_matched$percent_request_fulfilled>1))/length(senators_appropr
```

```
## [1] 0.014
```

```
# Range of 0 to 28.8, mean of 0.3
summary(senators_appropriations_matched$percent_request_fulfilled)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   0.000   0.000   0.325   1.000  28.772
```

```
# 6950 with at least partial fulfillment
length(which(senators_appropriations_matched$percent_request_fulfilled>0))
```

```
## [1] 6950
```

Table 3 Analysis

```
# Model 1: Outcome variable is binary (was request granted or not)
reg1_fe <- lm.cluster(request_granted ~ amount_percapita_scaled + log.total.requests.made_scaled +  joi
                        dem + on_appropriations + meddist_scaled + mean_core_county_scaled + mean_swing
                        logpop_scaled + female + seniority_scaled + party_leader +
                        freshman + mean_pct_urban_scaled + mean_median_household_income_scaled + any_ca
                      cluster = "senator", data=senators_appropriations_matched)
# summary(reg1_fe)

reg1 <- lm(request_granted ~ amount_percapita_scaled + log.total.requests.made_scaled + joint_request +
             dem + on_appropriations + meddist_scaled + mean_core_county_scaled + mean_swing_county_sca
```

```
            logpop_scaled + female + seniority_scaled + party_leader +
            freshman + mean_pct_urban_scaled + mean_median_household_income_scaled + any_capital +  fa
# summary(reg1)

# Model 2: Outcome variable is a percentage (percentage of request that was fulfilled)

reg2_fe <- lm.cluster(percent_request_fulfilled ~ amount_percapita_scaled + log.total.requests.made_scal
                      dem + on_appropriations + meddist_scaled + mean_core_county_scaled + mean_swing_
                      logpop_scaled + female + seniority_scaled + party_leader +
                      freshman + mean_pct_urban_scaled + mean_median_household_income_scaled + any_cap
                    cluster = "senator", data=senators_appropriations_matched)
# summary(reg2_fe)

reg2 <- lm(percent_request_fulfilled ~ amount_percapita_scaled + log.total.requests.made_scaled + joint_
            dem + on_appropriations + meddist_scaled + mean_core_county_scaled + mean_swing_county_scal
            logpop_scaled + female + seniority_scaled + party_leader +
            freshman + mean_pct_urban_scaled + mean_median_household_income_scaled + any_capital +  fa

# summary(reg2)

# Storing coefficients
cond  <- data.frame(summary(reg1_fe))
cond2  <- data.frame(summary(reg2_fe))

coefs <- c(cond[,1])
ses <- c(cond[,2])
coefs2 <- c(cond2[,1])
ses2 <- c(cond2[,2])
```

Table 3 Output

```
# Stargazer takes the non-clustered regressions, and we feed it the clustered standard errors
stargazer(reg1, reg2,
          add.lines=list(c("Subcommittee Fixed Effects","\\checkmark","\\checkmark"),
                         c("Year Fixed Effects","\\checkmark","\\checkmark")),
           omit=c("Constant", "subcommittee", "year"),
           notes.append = FALSE,notes.label = "",
           report="vc*s",star.char=c("*","**"),star.cutoffs = c(0.10,0.05),no.space = TRUE,
           font.size = "footnotesize", model.numbers = FALSE,
           dep.var.labels = c("Request Granted (Binary)","Percent of Request Granted"),column.sep.width=
           covariate.labels=c( "Request Amount (Per Capita)", "Total Amount of Senator Requests (Log)",
                               "Member of Appropriations Committee","Distance from DW-NOMINATE Median", "Pe
                                "Log Total Population in Affected Counties", "Senator is a Woman","Seniorit
                                "Freshman Senator", "Average Percent Urban Population in Affected Counties
           notes="\\parbox[t]{\\textwidth}{\\footnotesize \\textit{Note}: The table shows the results fr
           senator's county-level appropriation request behavior. Note that these models are limited to
           label="tab1_county_matched",
           digits=3,
           coef=list(coefs, coefs2),
           se=list(ses, ses2),
           digits.extra = 0,
```

```
          title="Predictors of Approved Spending Requests",
          omit.stat = c("ll","rsq","adj.rsq","ser","f"))
```

```
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac a
## % Date and time: Sat, Jul 06, 2024 - 09:30:41
## \begin{table}[!htbp] \centering
##   \caption{Predictors of Approved Spending Requests}
##   \label{tab1_county_matched}
## \footnotesize
## \begin{tabular}{@{\extracolsep{0pt}}lcc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
##  & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
## \cline{2-3}
## \\[-1.8ex] & Request Granted (Binary) & Percent of Request Granted \\
## \hline \\[-1.8ex]
##  Request Amount (Per Capita) & $-$0.007$^{**}$ & $-$0.010 \\
##   & (0.004) & (0.006) \\
##   Total Amount of Senator Requests (Log) & $-$0.130$^{**}$ & $-$0.131$^{**}$ \\
##   & (0.010) & (0.009) \\
##   Joint Request & 0.085$^{**}$ & 0.083$^{**}$ \\
##   & (0.016) & (0.018) \\
##   Number of Counties Affected & 0.004 & 0.004 \\
##   & (0.004) & (0.005) \\
##   Democrat (Majority Party Member) & $-$0.209$^{**}$ & $-$0.163$^{**}$ \\
##   & (0.035) & (0.031) \\
##   Member of Appropriations Committee & 0.108$^{**}$ & 0.112$^{**}$ \\
##   & (0.023) & (0.021) \\
##   Distance from DW-NOMINATE Median & $-$0.019$^{*}$ & $-$0.022$^{**}$ \\
##   & (0.010) & (0.010) \\
##   Percent Core Counties & $-$0.001 & 0.001 \\
##   & (0.009) & (0.009) \\
##   Percent Swing Counties & $-$0.003 & $-$0.004 \\
##   & (0.007) & (0.006) \\
##   Log Total Population in Affected Counties & $-$0.001 & 0.003 \\
##   & (0.013) & (0.013) \\
##   Senator is a Woman & $-$0.018 & $-$0.020 \\
##   & (0.021) & (0.020) \\
##   Seniority & 0.028$^{**}$ & 0.026$^{**}$ \\
##   & (0.012) & (0.012) \\
##   Party Leader & 0.014 & 0.003 \\
##   & (0.021) & (0.020) \\
##   Freshman Senator & 0.046 & 0.025 \\
##   & (0.048) & (0.044) \\
##   Average Percent Urban Population in Affected Counties & 0.002 & $-$0.002 \\
##   & (0.011) & (0.010) \\
##   Average Median Household Income in Affected Counties & $-$0.024$^{**}$ & $-$0.018$^{**}$ \\
##   & (0.007) & (0.007) \\
##   Capital City & 0.015 & 0.019 \\
##   & (0.013) & (0.016) \\
##  \hline \\[-1.8ex]
## Subcommittee Fixed Effects & \checkmark & \checkmark \\
## Year Fixed Effects & \checkmark & \checkmark \\
```

```
## Observations & 20,276 & 20,276 \\
## \hline
## \hline \\[-1.8ex]
## \multicolumn{3}{r}{\parbox[t]{\textwidth}{\footnotesize \textit{Note}: The table shows the results fi
##            senator's county-level appropriation request behavior. Note that these models are limited
## \end{tabular}
## \end{table}
```