```
R version 4.4.0 (2024-04-24) -- "Puppy Cup"
Copyright (C) 2024 The R Foundation for Statistical Computing
Platform: aarch64-apple-darwin20

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Type 'license()' or 'licence()' for distribution details.

  Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[R.app GUI 1.80 (8376) aarch64-apple-darwin20]

[History restored from /Users/js122/.Rapp.history]

> ##########################################
> ### LANE AND SCHOENHERR CITE AND SWAY? ###
> ##########################################
>
> # Purpose:
> # - Replicate Tables XXXXX in the supplemental appendix
>
> # Data Sources:
> # - Analysis2DataAppendixPart1.csv
> # - Analysis2DataAppendixPart2.csv
> # - Analysis2DataAppendixPart3.csv
>
> # Run on:
> # - R 4.4.0 ("Puppy Cup") on macOS Sequoia 15.1.1.
>
> # Associated codebook:
> # - Analysis2Codebook.pdf
>
> ##########################################
> ##########################################
> ##########################################
>
> library(foreign)
Warning message:
package ‘foreign’ was built under R version 4.4.1
> library(arm)
Loading required package: MASS
Loading required package: Matrix
Loading required package: lme4

arm (Version 1.14-4, built: 2024-4-1)

Working directory is /Users/js122/Library/CloudStorage/Dropbox/VanityCitations/JOP Final/Dataverse

> library(readxl)
```

```
> library(lattice)
> library(tidyverse)
── Attaching core tidyverse packages ──────────────────────────────────────── tidyverse 2.0.0 ──
✔ dplyr     1.1.4     ✔ readr     2.1.5
✔ forcats   1.0.0     ✔ stringr   1.5.1
✔ ggplot2   3.5.2     ✔ tibble    3.2.1
✔ lubridate 1.9.3     ✔ tidyr     1.3.1
✔ purrr     1.0.2
── Conflicts ────────────────────────────────────────────────────────── tidyverse_conflicts() ──
✖ tidyr::expand() masks Matrix::expand()
✖ dplyr::filter() masks stats::filter()
✖ dplyr::lag()    masks stats::lag()
✖ tidyr::pack()   masks Matrix::pack()
✖ dplyr::select() masks MASS::select()
✖ tidyr::unpack() masks Matrix::unpack()
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
Warning message:
package ‘ggplot2’ was built under R version 4.4.1
> library(stargazer)

Please cite as:

 Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
 R package version 5.2.3. https://CRAN.R-project.org/package=stargazer

> library(faraway)

Attaching package: ‘faraway’

The following object is masked from ‘package:lattice’:

    melanoma

The following objects are masked from ‘package:arm’:

    fround, logit, pfround

> library(lme4)
> library(haven)
>
> ########################################
> ### STEP 1: PULL IN THE MODEL 2 DATA ###
> ########################################
>
> model2data <- read.csv("~/Dropbox/VanityCitations/JOP\ Final/Dataverse/
Analysis2DataAppendixPart1.csv")
>
> ##########################################
> ### STEP 2: PRE-PROCESS SOME OF THE DATA ###
> ##########################################
>
> model2data$logPetBriefExperience <- log(model2data$petBriefExperience + 1)
> model2data$logRespBriefExperience <- log(model2data$respBriefExperience + 1)
>
> model2data$logPetNumCites <- log(model2data$petNumCites + 1)
> model2data$logRespNumCites <- log(model2data$respNumCites + 1)
>
> # check all the variables to make sure no NAs before running:
```

```
> table(is.na(model2data$voteWithPet))

FALSE
21674
> table(is.na(model2data$petUnnamedCiteCount))

FALSE
21674
> table(is.na(model2data$petMajCallOutCount))

FALSE
21674
> table(is.na(model2data$petNotMajOpinCount))

FALSE
21674
> table(is.na(model2data$petDissent))

FALSE
21674
> table(is.na(model2data$petConcurrence))

FALSE
21674
> table(is.na(model2data$respUnnamedCiteCount))

FALSE
21674
> table(is.na(model2data$respMajCallOutCount))

FALSE
21674
> table(is.na(model2data$respNotMajOpinCount))

FALSE
21674
> table(is.na(model2data$respDissent))

FALSE
21674
> table(is.na(model2data$respConcurrence))

FALSE
21674
> table(is.na(model2data$ideoAlign))

FALSE
21674
> table(is.na(model2data$logPetBriefExperience))

FALSE
21674
> table(is.na(model2data$logRespBriefExperience))

FALSE
21674
> table(is.na(model2data$sgParty))
```

```
FALSE
21674
> table(is.na(model2data$helpOSG))

FALSE
21674
> table(is.na(model2data$amiciNet))

FALSE
21674
> table(is.na(model2data$petFormerClerk))

FALSE
21674
> table(is.na(model2data$respFormerClerk))

FALSE
21674
> table(is.na(model2data$netStatus))

FALSE
21674
> table(is.na(model2data$lcDisagreement))

FALSE  TRUE
21665     9
> model2data <- model2data %>% filter(!is.na(lcDisagreement))
> table(is.na(model2data$CSI))

FALSE
21665
> table(is.na(model2data$pastExpertise))

FALSE
21665
> table(is.na(model2data$petNumCites))

FALSE
21665
> table(is.na(model2data$respNumCites))

FALSE
21665
> table(is.na(model2data$petQuestionsOA))

FALSE
21665
> table(is.na(model2data$respQuestionsOA))

FALSE
21665
> table(is.na(model2data$justice))

FALSE
21665
> table(is.na(model2data$issueArea))

FALSE
```

```
21665
> table(is.na(model2data$term))

FALSE
21665
>
> # convert the three levels to factors
> model2data$justice <- as.factor(model2data$justice)
> model2data$issueArea <- as.factor(model2data$issueArea)
> model2data$term <- as.factor(model2data$term)
>
> ######################
> ### STEP 3: MODEL ###
> ######################
>
> model2data$petUnnamedCiteLog <- log(model2data$petUnnamedCiteCount + 1)
> model2data$petMajCallOutLog <- log(model2data$petMajCallOutCount + 1)
> model2data$petNotMajOpinLog <- log(model2data$petNotMajOpinCount + 1)
> model2data$respUnnamedCiteLog <- log(model2data$respUnnamedCiteCount + 1)
> model2data$respMajCallOutLog <- log(model2data$respMajCallOutCount + 1)
> model2data$respNotMajOpinLog <- log(model2data$respNotMajOpinCount + 1)
> model2data$pastExpertiseLog <- log(model2data$pastExpertise + 1)
> model2data$oaQuestDiff <- model2data$petQuestionsOA - model2data$respQuestionsOA
> model2data$petExperienceAdvantage <- model2data$petBriefExperience - model2data$respBriefExperience
>
> ### TABLE 4 IN MANUSCRIPT ###
>
> model2logCites <- glmer(voteWithPet ~ petUnnamedCiteLog
+                           + petMajCallOutLog
+                           + petNotMajOpinLog
+                           + respUnnamedCiteLog
+                           + respMajCallOutLog
+                           + respNotMajOpinLog
+                           + ideoAlign
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petUnnamedCiteLog * ideoAlign
+                           + petMajCallOutLog * ideoAlign
+                           + petNotMajOpinLog * ideoAlign
+                           + respUnnamedCiteLog * ideoAlign
+                           + respMajCallOutLog * ideoAlign
+                           + respNotMajOpinLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2data,
+                           family = binomial(link = logit),
+                           glmerControl(optimizer = "Nelder_Mead"))
Warning message:
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
```

```
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2logCites)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog * ideoAlign +
    petMajCallOutLog * ideoAlign + petNotMajOpinLog * ideoAlign +
    respUnnamedCiteLog * ideoAlign + respMajCallOutLog * ideoAlign +
    respNotMajOpinLog * ideoAlign + (1 | issueArea) + (1 | term) +      (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27122.3  27337.9 -13534.2  27068.3    21638

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.8400 -0.9639  0.5192  0.7875  4.3688

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03115  0.1765
 justice   (Intercept) 0.02979  0.1726
 issueArea (Intercept) 0.02347  0.1532
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.5929587  0.1236264   4.796 1.62e-06 ***
petUnnamedCiteLog            0.1997165  0.0240025   8.321  < 2e-16 ***
petMajCallOutLog            -0.0779729  0.1358717  -0.574 0.566055
petNotMajOpinLog             0.1757396  0.0455938   3.854 0.000116 ***
respUnnamedCiteLog          -0.1502855  0.0238527  -6.301 2.97e-10 ***
respMajCallOutLog            0.0328460  0.1281554   0.256 0.797721
respNotMajOpinLog           -0.0324422  0.0452743  -0.717 0.473640
ideoAlign                    0.0786408  0.0096581   8.142 3.87e-16 ***
pastExpertise                0.0005658  0.0005267   1.074 0.282700
logPetNumCites               0.0364334  0.0261349   1.394 0.163302
logRespNumCites             -0.1215394  0.0265410  -4.579 4.67e-06 ***
petExperienceAdvantage       0.0004846  0.0003534   1.371 0.170292
sgParty                      0.5904541  0.0276380  21.364  < 2e-16 ***
lcDisagreement               0.0193923  0.0338442   0.573 0.566653
amiciNet                     0.0469196  0.0040624  11.550  < 2e-16 ***
helpOSG                      0.6741170  0.0417838  16.133  < 2e-16 ***
netStatus                   -0.0036971  0.0035672  -1.036 0.300011
oaQuestDiff                 -0.0164159  0.0006776 -24.226  < 2e-16 ***
petUnnamedCiteLog:ideoAlign  0.0236771  0.0101044   2.343 0.019116 *
petMajCallOutLog:ideoAlign  -0.1197142  0.0635433  -1.884 0.059568 .
petNotMajOpinLog:ideoAlign  -0.0172461  0.0201958  -0.854 0.393136
respUnnamedCiteLog:ideoAlign -0.0258483  0.0098780  -2.617 0.008877 **
respMajCallOutLog:ideoAlign  0.0119293  0.0640039   0.186 0.852144
respNotMajOpinLog:ideoAlign  0.0129073  0.0203775   0.633 0.526468
---
```

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

Correlation matrix not shown by default, as p = 24 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2logCites)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog *
    ideoAlign + petMajCallOutLog * ideoAlign + petNotMajOpinLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respMajCallOutLog *
    ideoAlign + respNotMajOpinLog * ideoAlign + (1 | issueArea) +
    (1 | term) + (1 | justice), data = model2data, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"))
                             coef.est coef.se
(Intercept)                   0.59     0.12
petUnnamedCiteLog             0.20     0.02
petMajCallOutLog             -0.08     0.14
petNotMajOpinLog              0.18     0.05
respUnnamedCiteLog           -0.15     0.02
respMajCallOutLog             0.03     0.13
respNotMajOpinLog            -0.03     0.05
ideoAlign                     0.08     0.01
pastExpertise                 0.00     0.00
logPetNumCites                0.04     0.03
logRespNumCites              -0.12     0.03
petExperienceAdvantage        0.00     0.00
sgParty                       0.59     0.03
lcDisagreement                0.02     0.03
amiciNet                      0.05     0.00
helpOSG                       0.67     0.04
netStatus                     0.00     0.00
oaQuestDiff                  -0.02     0.00
petUnnamedCiteLog:ideoAlign   0.02     0.01
petMajCallOutLog:ideoAlign   -0.12     0.06
petNotMajOpinLog:ideoAlign   -0.02     0.02
respUnnamedCiteLog:ideoAlign -0.03     0.01
respMajCallOutLog:ideoAlign   0.01     0.06
respNotMajOpinLog:ideoAlign   0.01     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27122.3, DIC = 26737.7
deviance = 26903.0
>
```

```
> ###################################
> #### STEP 3: MODEL 2 WITH COUNTS ###
> ###################################
>
> # TABLE B1, COLUMN 2 ###
>
> model2count <- glmer(voteWithPet ~ petUnnamedCiteCount
+                            + petMajCallOutCount
+                            + petNotMajOpinCount
+                            + respUnnamedCiteCount
+                            + respMajCallOutCount
+                            + respNotMajOpinCount
+                            + ideoAlign
+                            + pastExpertise
+                            + logPetNumCites
+                            + logRespNumCites
+                            + petExperienceAdvantage
+                            + sgParty
+                            + lcDisagreement
+                            + amiciNet
+                            + helpOSG
+                            + netStatus
+                            + oaQuestDiff

+                            + petUnnamedCiteCount * ideoAlign
+                            + petMajCallOutCount * ideoAlign
+                            + petNotMajOpinCount * ideoAlign
+                            + respUnnamedCiteCount * ideoAlign
+                            + respMajCallOutCount * ideoAlign
+                            + respNotMajOpinCount * ideoAlign
+                            + (1 | issueArea)
+                            + (1 | term)
+                            + (1 | justice),
+                            data = model2data,
+                            family = binomial(link = logit),
+                            glmerControl(optimizer = "Nelder_Mead"))
Warning message:
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2count)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteCount + petMajCallOutCount + petNotMajOpinCount +
    respUnnamedCiteCount + respMajCallOutCount + respNotMajOpinCount +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petUnnamedCiteCount *
    ideoAlign + petMajCallOutCount * ideoAlign + petNotMajOpinCount *
    ideoAlign + respUnnamedCiteCount * ideoAlign + respMajCallOutCount *
    ideoAlign + respNotMajOpinCount * ideoAlign + (1 | issueArea) +
    (1 | term) + (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27142.4  27357.9 -13544.2  27088.4    21638
```

```
Scaled residuals:
    Min      1Q  Median      3Q     Max
-6.0523 -0.9623  0.5213  0.7881  4.3761

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03203  0.1790
 justice   (Intercept) 0.02745  0.1657
 issueArea (Intercept) 0.02259  0.1503
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                                Estimate Std. Error z value Pr(>|z|)
(Intercept)                    0.5882466  0.1229440   4.785 1.71e-06 ***
petUnnamedCiteCount            0.0305824  0.0041866   7.305 2.78e-13 ***
petMajCallOutCount            -0.0282804  0.0760379  -0.372  0.70995
petNotMajOpinCount             0.0478699  0.0175755   2.724  0.00646 **
respUnnamedCiteCount          -0.0207925  0.0037444  -5.553 2.81e-08 ***
respMajCallOutCount            0.0279963  0.0646975   0.433  0.66521
respNotMajOpinCount           -0.0089351  0.0179887  -0.497  0.61940
ideoAlign                      0.0784891  0.0079351   9.891  < 2e-16 ***
pastExpertise                  0.0006362  0.0005209   1.221  0.22197
logPetNumCites                 0.0630911  0.0255359   2.471  0.01349 *
logRespNumCites               -0.1434872  0.0258987  -5.540 3.02e-08 ***
petExperienceAdvantage         0.0005047  0.0003531   1.429  0.15293
sgParty                        0.5889089  0.0276221  21.320  < 2e-16 ***
lcDisagreement                 0.0144883  0.0338233   0.428  0.66840
amiciNet                       0.0471525  0.0040614  11.610  < 2e-16 ***
helpOSG                        0.6741844  0.0417648  16.142  < 2e-16 ***
netStatus                     -0.0037451  0.0035658  -1.050  0.29359
oaQuestDiff                   -0.0164441  0.0006773 -24.279  < 2e-16 ***
petUnnamedCiteCount:ideoAlign  0.0040437  0.0018125   2.231  0.02568 *
petMajCallOutCount:ideoAlign  -0.0511263  0.0364415  -1.403  0.16063
petNotMajOpinCount:ideoAlign  -0.0105727  0.0083425  -1.267  0.20504
respUnnamedCiteCount:ideoAlign -0.0046361  0.0016629  -2.788  0.00530 **
respMajCallOutCount:ideoAlign  0.0196295  0.0358603   0.547  0.58411
respNotMajOpinCount:ideoAlign  0.0055639  0.0087447   0.636  0.52461
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 24 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2count)
glmer(formula = voteWithPet ~ petUnnamedCiteCount + petMajCallOutCount +
    petNotMajOpinCount + respUnnamedCiteCount + respMajCallOutCount +
    respNotMajOpinCount + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petUnnamedCiteCount *
    ideoAlign + petMajCallOutCount * ideoAlign + petNotMajOpinCount *
    ideoAlign + respUnnamedCiteCount * ideoAlign + respMajCallOutCount *
    ideoAlign + respNotMajOpinCount * ideoAlign + (1 | issueArea) +
```

```
    (1 | term) + (1 | justice), data = model2data, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"))
                              coef.est coef.se
(Intercept)                    0.59     0.12
petUnnamedCiteCount            0.03     0.00
petMajCallOutCount            -0.03     0.08
petNotMajOpinCount             0.05     0.02
respUnnamedCiteCount          -0.02     0.00
respMajCallOutCount            0.03     0.06
respNotMajOpinCount           -0.01     0.02
ideoAlign                      0.08     0.01
pastExpertise                  0.00     0.00
logPetNumCites                 0.06     0.03
logRespNumCites               -0.14     0.03
petExperienceAdvantage         0.00     0.00
sgParty                        0.59     0.03
lcDisagreement                 0.01     0.03
amiciNet                       0.05     0.00
helpOSG                        0.67     0.04
netStatus                      0.00     0.00
oaQuestDiff                   -0.02     0.00
petUnnamedCiteCount:ideoAlign  0.00     0.00
petMajCallOutCount:ideoAlign  -0.05     0.04
petNotMajOpinCount:ideoAlign  -0.01     0.01
respUnnamedCiteCount:ideoAlign 0.00     0.00
respMajCallOutCount:ideoAlign  0.02     0.04
respNotMajOpinCount:ideoAlign  0.01     0.01

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27142.4, DIC = 26759.6
deviance = 26924.0
>
> ####################################
> ### STEP 3B: WRITE OUT THE TABLE ###
> ####################################
>
> stargazer(model2logCites, model2count, align = TRUE, omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 20:52:02
% Requires LaTeX packages: dcolumn
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
 & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
\cline{2-3}
\\[-1.8ex] & \multicolumn{2}{c}{voteWithPet} \\
```

```
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)}\\
\hline \\[-1.8ex]
 petUnnamedCiteLog & 0.200^{***} &  \\
  & (0.024) &  \\
  & & \\
 petMajCallOutLog & -0.078 &  \\
  & (0.136) &  \\
  & & \\
 petNotMajOpinLog & 0.176^{***} &  \\
  & (0.046) &  \\
  & & \\
 respUnnamedCiteLog & -0.150^{***} &  \\
  & (0.024) &  \\
  & & \\
 respMajCallOutLog & 0.033 &  \\
  & (0.128) &  \\
  & & \\
 respNotMajOpinLog & -0.032 &  \\
  & (0.045) &  \\
  & & \\
 petUnnamedCiteCount &  & 0.031^{***} \\
  &  & (0.004) \\
  & & \\
 petMajCallOutCount &  & -0.028 \\
  &  & (0.076) \\
  & & \\
 petNotMajOpinCount &  & 0.048^{***} \\
  &  & (0.018) \\
  & & \\
 respUnnamedCiteCount &  & -0.021^{***} \\
  &  & (0.004) \\
  & & \\
 respMajCallOutCount &  & 0.028 \\
  &  & (0.065) \\
  & & \\
 respNotMajOpinCount &  & -0.009 \\
  &  & (0.018) \\
  & & \\
 ideoAlign & 0.079^{***} & 0.078^{***} \\
  & (0.010) & (0.008) \\
  & & \\
 pastExpertise & 0.001 & 0.001 \\
  & (0.001) & (0.001) \\
  & & \\
 logPetNumCites & 0.036 & 0.063^{**} \\
  & (0.026) & (0.026) \\
  & & \\
 logRespNumCites & -0.122^{***} & -0.143^{***} \\
  & (0.027) & (0.026) \\
  & & \\
 petExperienceAdvantage & 0.0005 & 0.001 \\
  & (0.0004) & (0.0004) \\
  & & \\
 sgParty & 0.590^{***} & 0.589^{***} \\
  & (0.028) & (0.028) \\
  & & \\
 lcDisagreement & 0.019 & 0.014 \\
  & (0.034) & (0.034) \\
```

```
 & & \\
amiciNet & 0.047^{***} & 0.047^{***} \\
 & (0.004) & (0.004) \\
 & & \\
helpOSG & 0.674^{***} & 0.674^{***} \\
 & (0.042) & (0.042) \\
 & & \\
netStatus & -0.004 & -0.004 \\
 & (0.004) & (0.004) \\
 & & \\
oaQuestDiff & -0.016^{***} & -0.016^{***} \\
 & (0.001) & (0.001) \\
 & & \\
petUnnamedCiteLog:ideoAlign & 0.024^{**} &  \\
 & (0.010) &  \\
 & & \\
petMajCallOutLog:ideoAlign & -0.120^{*} &  \\
 & (0.064) &  \\
 & & \\
petNotMajOpinLog:ideoAlign & -0.017 &  \\
 & (0.020) &  \\
 & & \\
respUnnamedCiteLog:ideoAlign & -0.026^{***} &  \\
 & (0.010) &  \\
 & & \\
respMajCallOutLog:ideoAlign & 0.012 &  \\
 & (0.064) &  \\
 & & \\
respNotMajOpinLog:ideoAlign & 0.013 &  \\
 & (0.020) &  \\
 & & \\
petUnnamedCiteCount:ideoAlign &  & 0.004^{**} \\
 &  & (0.002) \\
 & & \\
petMajCallOutCount:ideoAlign &  & -0.051 \\
 &  & (0.036) \\
 & & \\
petNotMajOpinCount:ideoAlign &  & -0.011 \\
 &  & (0.008) \\
 & & \\
respUnnamedCiteCount:ideoAlign &  & -0.005^{***} \\
 &  & (0.002) \\
 & & \\
respMajCallOutCount:ideoAlign &  & 0.020 \\
 &  & (0.036) \\
 & & \\
respNotMajOpinCount:ideoAlign &  & 0.006 \\
 &  & (0.009) \\
 & & \\
Constant & 0.593^{***} & 0.588^{***} \\
 & (0.124) & (0.123) \\
 & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,665} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,122.320} & \multicolumn{1}{c}{27,142.350} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,337.880} & \multicolumn{1}{c}{27,357.910} \\
\hline
\hline \\[-1.8ex]
```

```
\textit{Note:}  & \multicolumn{2}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
>
> ###################################
> ### STEP 4: ALT CITE CATEGORIES ###
> ###################################
>
> # Table B2 in the Supplemental Appendix
>
> ########################################
> ## STEP 4A: COLLAPSE ACTIVE CITATIONS ###
> ########################################
>
> model2data$petAllCallOutCount <- model2data$petMajCallOutCount + model2data$petNotMajOpinCount
> model2data$respAllCallOutCount <- model2data$respMajCallOutCount + model2data$respNotMajOpinCount
>
> model2data$petAllCallOutLog <- log(model2data$petAllCallOutCount + 1)
> model2data$respAllCallOutLog <- log(model2data$respAllCallOutCount + 1)
>
> ### TABLE B2, COLUMN 2 ###
>
> model2allCall <- glmer(voteWithPet ~ petUnnamedCiteLog
+                            + petAllCallOutLog
+                            + respUnnamedCiteLog
+                            + respAllCallOutLog
+                            + ideoAlign
+                            + pastExpertise
+                            + logPetNumCites
+                            + logRespNumCites
+                            + petExperienceAdvantage
+                            + sgParty
+                            + lcDisagreement
+                            + amiciNet
+                            + helpOSG
+                            + netStatus
+                            + oaQuestDiff
+                            + petUnnamedCiteLog * ideoAlign
+                            + petAllCallOutLog * ideoAlign
+                            + respUnnamedCiteLog * ideoAlign
+                            + respAllCallOutLog * ideoAlign
+                            + (1 | issueArea)
+                            + (1 | term)
+                            + (1 | justice),
+                            data = model2data,
+                            family = binomial(link = logit),
+                            glmerControl(optimizer = "Nelder_Mead"))
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00355 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2allCall)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petAllCallOutLog + respUnnamedCiteLog +
```

```
    respAllCallOutLog + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog *
    ideoAlign + petAllCallOutLog * ideoAlign + respUnnamedCiteLog *
    ideoAlign + respAllCallOutLog * ideoAlign + (1 | issueArea) +      (1 | term) + (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27118.2  27301.8 -13536.1  27072.2    21642

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.8275 -0.9643  0.5196  0.7878  4.3439

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03154  0.1776
 justice   (Intercept) 0.02959  0.1720
 issueArea (Intercept) 0.02343  0.1531
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.5933372  0.1236236   4.800 1.59e-06 ***
petUnnamedCiteLog            0.1978968  0.0239312   8.269  < 2e-16 ***
petAllCallOutLog             0.1554383  0.0428957   3.624  0.00029 ***
respUnnamedCiteLog          -0.1510560  0.0238024  -6.346 2.21e-10 ***
respAllCallOutLog           -0.0214259  0.0424518  -0.505  0.61376
ideoAlign                    0.0797724  0.0096218   8.291  < 2e-16 ***
pastExpertise                0.0005664  0.0005265   1.076  0.28205
logPetNumCites               0.0364263  0.0261322   1.394  0.16334
logRespNumCites             -0.1213336  0.0265370  -4.572 4.83e-06 ***
petExperienceAdvantage       0.0004810  0.0003533   1.361  0.17338
sgParty                      0.5904167  0.0276373  21.363  < 2e-16 ***
lcDisagreement               0.0180970  0.0338343   0.535  0.59274
amiciNet                     0.0469356  0.0040623  11.554  < 2e-16 ***
helpOSG                      0.6746519  0.0417747  16.150  < 2e-16 ***
netStatus                   -0.0036582  0.0035670  -1.026  0.30509
oaQuestDiff                 -0.0164236  0.0006774 -24.245  < 2e-16 ***
petUnnamedCiteLog:ideoAlign  0.0225591  0.0100718   2.240  0.02510 *
petAllCallOutLog:ideoAlign  -0.0315796  0.0191080  -1.653  0.09840 .
respUnnamedCiteLog:ideoAlign -0.0264452  0.0098518  -2.684  0.00727 **
respAllCallOutLog:ideoAlign  0.0166109  0.0192622   0.862  0.38849
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 20 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00355 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2allCall)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petAllCallOutLog +
```

```
    respUnnamedCiteLog + respAllCallOutLog + ideoAlign + pastExpertise +
    logPetNumCites + logRespNumCites + petExperienceAdvantage +
    sgParty + lcDisagreement + amiciNet + helpOSG + netStatus +
    oaQuestDiff + petUnnamedCiteLog * ideoAlign + petAllCallOutLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respAllCallOutLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice),
    data = model2data, family = binomial(link = logit), control = glmerControl(optimizer =
"Nelder_Mead"))
                            coef.est coef.se
(Intercept)                  0.59     0.12
petUnnamedCiteLog            0.20     0.02
petAllCallOutLog             0.16     0.04
respUnnamedCiteLog          -0.15     0.02
respAllCallOutLog           -0.02     0.04
ideoAlign                    0.08     0.01
pastExpertise                0.00     0.00
logPetNumCites               0.04     0.03
logRespNumCites             -0.12     0.03
petExperienceAdvantage       0.00     0.00
sgParty                      0.59     0.03
lcDisagreement               0.02     0.03
amiciNet                     0.05     0.00
helpOSG                      0.67     0.04
netStatus                    0.00     0.00
oaQuestDiff                 -0.02     0.00
petUnnamedCiteLog:ideoAlign  0.02     0.01
petAllCallOutLog:ideoAlign  -0.03     0.02
respUnnamedCiteLog:ideoAlign -0.03     0.01
respAllCallOutLog:ideoAlign  0.02     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27118.2, DIC = 26741.1
deviance = 26906.6
>
> ######################################
> ### STEP 4B: COLLAPSE ALL CITATIONS ###
> ######################################
>
> model2data$petAllCitesCount <- model2data$petUnnamedCiteCount + model2data$petMajCallOutCount +
model2data$petNotMajOpinCount
> model2data$respAllCitesCount <- model2data$respUnnamedCiteCount + model2data$respMajCallOutCount +
model2data$respNotMajOpinCount
>
> model2data$petAllCitesLog <- log(model2data$petAllCitesCount + 1)
> model2data$respAllCitesLog <- log(model2data$respAllCitesCount + 1)
>
> ### TABLE B2, COLUMN 3 ###
>
> model2allCites <- glmer(voteWithPet ~ petAllCitesLog
+                           + respAllCitesLog
+                           + ideoAlign
```

```
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petAllCitesLog * ideoAlign
+                           + respAllCitesLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2data,
+                           family = binomial(link = logit),
+                           glmerControl(optimizer = "Nelder_Mead"))
Warning message:
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2allCites)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petAllCitesLog + respAllCitesLog + ideoAlign +
    pastExpertise + logPetNumCites + logRespNumCites + petExperienceAdvantage +
    sgParty + lcDisagreement + amiciNet + helpOSG + netStatus +
    oaQuestDiff + petAllCitesLog * ideoAlign + respAllCitesLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27122.9  27274.5 -13542.4  27084.9    21646

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.9496 -0.9657  0.5212  0.7888  4.4317

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03187  0.1785
 justice   (Intercept) 0.02865  0.1692
 issueArea (Intercept) 0.02320  0.1523
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                          Estimate Std. Error z value Pr(>|z|)
(Intercept)               0.5698856  0.1227713   4.642 3.45e-06 ***
petAllCitesLog            0.2073031  0.0233236   8.888  < 2e-16 ***
respAllCitesLog          -0.1469000  0.0232623  -6.315 2.70e-10 ***
ideoAlign                 0.0798809  0.0097976   8.153 3.55e-16 ***
pastExpertise             0.0005624  0.0005228   1.076    0.282
logPetNumCites            0.0418651  0.0260689   1.606    0.108
logRespNumCites          -0.1198139  0.0264866  -4.524 6.08e-06 ***
petExperienceAdvantage    0.0004756  0.0003532   1.346    0.178
```

```
sgParty                    0.5885145  0.0276143  21.312  < 2e-16 ***
lcDisagreement             0.0195407  0.0338247   0.578    0.563
amiciNet                   0.0466903  0.0040565  11.510  < 2e-16 ***
helpOSG                    0.6738226  0.0417575  16.137  < 2e-16 ***
netStatus                 -0.0036285  0.0035634  -1.018    0.309
oaQuestDiff               -0.0164339  0.0006769 -24.278  < 2e-16 ***
petAllCitesLog:ideoAlign   0.0133216  0.0096352   1.383    0.167
respAllCitesLog:ideoAlign -0.0202176  0.0094826  -2.132    0.033 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 16 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2allCites)
glmer(formula = voteWithPet ~ petAllCitesLog + respAllCitesLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petAllCitesLog * ideoAlign +
    respAllCitesLog * ideoAlign + (1 | issueArea) + (1 | term) +
    (1 | justice), data = model2data, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"))
                           coef.est coef.se
(Intercept)                 0.57     0.12
petAllCitesLog              0.21     0.02
respAllCitesLog            -0.15     0.02
ideoAlign                   0.08     0.01
pastExpertise               0.00     0.00
logPetNumCites              0.04     0.03
logRespNumCites            -0.12     0.03
petExperienceAdvantage      0.00     0.00
sgParty                     0.59     0.03
lcDisagreement              0.02     0.03
amiciNet                    0.05     0.00
helpOSG                     0.67     0.04
netStatus                   0.00     0.00
oaQuestDiff                -0.02     0.00
petAllCitesLog:ideoAlign    0.01     0.01
respAllCitesLog:ideoAlign -0.02     0.01

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27122.9, DIC = 26754.4
deviance = 26919.6
>
> # note it's a better model to not combine them
> # best model is to pull together all the call outs, but that's not a theoretically correct model
```

```
> # second best model is logged with all three -- that'll be the model we use
>
> ################################################
> ### STEP 4C: SEPARATE DISSENTS AND CONCURRENCES ###
> ################################################
>
> model2data$petDissentLog <- log(model2data$petDissent + 1)
> model2data$petConcurrenceLog <- log(model2data$petConcurrence + 1)
> model2data$respDissentLog <- log(model2data$respDissent + 1)
> model2data$respConcurrenceLog <- log(model2data$respConcurrence + 1)
>
> ### TABLE B2, COLUMN 4 ###
>
> model2logCitesSepSplit <- glmer(voteWithPet ~ petUnnamedCiteLog
+                           + petMajCallOutLog
+                           + petDissentLog
+                           + petConcurrenceLog
+                           + respUnnamedCiteLog
+                           + respMajCallOutLog
+                           + respDissentLog
+                           + respConcurrenceLog
+                           + ideoAlign
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petUnnamedCiteLog * ideoAlign
+                           + petMajCallOutLog * ideoAlign
+                           + petDissentLog * ideoAlign
+                           + petConcurrenceLog * ideoAlign
+                           + respUnnamedCiteLog * ideoAlign
+                           + respMajCallOutLog * ideoAlign
+                           + respDissentLog * ideoAlign
+                           + respConcurrenceLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2data,
+                           family = binomial(link = logit),
+                           glmerControl(optimizer = "Nelder_Mead"))
Warning message:
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2logCitesSepSplit)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petDissentLog +
    petConcurrenceLog + respUnnamedCiteLog + respMajCallOutLog +
    respDissentLog + respConcurrenceLog + ideoAlign + pastExpertise +
    logPetNumCites + logRespNumCites + petExperienceAdvantage +
```

```
    sgParty + lcDisagreement + amiciNet + helpOSG + netStatus +
    oaQuestDiff + petUnnamedCiteLog * ideoAlign + petMajCallOutLog *
    ideoAlign + petDissentLog * ideoAlign + petConcurrenceLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respMajCallOutLog *
    ideoAlign + respDissentLog * ideoAlign + respConcurrenceLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27127.4  27374.9 -13532.7  27065.4    21634

Scaled residuals:
    Min      1Q  Median      3Q     Max
-6.2693 -0.9630  0.5196  0.7870  4.3138

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03151  0.1775
 justice   (Intercept) 0.02810  0.1676
 issueArea (Intercept) 0.02360  0.1536
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.5819537  0.1232617   4.721 2.34e-06 ***
petUnnamedCiteLog            0.1964805  0.0240643   8.165 3.22e-16 ***
petMajCallOutLog            -0.0701429  0.1364249  -0.514  0.60715
petDissentLog               -0.0327958  0.0638192  -0.514  0.60733
petConcurrenceLog            0.2459139  0.0620510   3.963 7.40e-05 ***
respUnnamedCiteLog          -0.1489150  0.0238931  -6.233 4.59e-10 ***
respMajCallOutLog            0.0341539  0.1278925   0.267  0.78943
respDissentLog               0.0459382  0.0646165   0.711  0.47712
respConcurrenceLog          -0.0643390  0.0602713  -1.067  0.28575
ideoAlign                    0.0782201  0.0095526   8.188 2.65e-16 ***
pastExpertise                0.0005758  0.0005239   1.099  0.27175
logPetNumCites               0.0430412  0.0260579   1.652  0.09859 .
logRespNumCites             -0.1239527  0.0264817  -4.681 2.86e-06 ***
petExperienceAdvantage       0.0004847  0.0003534   1.372  0.17021
sgParty                      0.5881357  0.0276408  21.278  < 2e-16 ***
lcDisagreement               0.0183882  0.0338579   0.543  0.58706
amiciNet                     0.0469082  0.0040634  11.544  < 2e-16 ***
helpOSG                      0.6725194  0.0417804  16.097  < 2e-16 ***
netStatus                   -0.0035350  0.0035686  -0.991  0.32189
oaQuestDiff                 -0.0164120  0.0006777 -24.218  < 2e-16 ***
petUnnamedCiteLog:ideoAlign  0.0228124  0.0101461   2.248  0.02455 *
petMajCallOutLog:ideoAlign  -0.1208885  0.0635852  -1.901  0.05728 .
petDissentLog:ideoAlign      0.0334746  0.0281292   1.190  0.23404
petConcurrenceLog:ideoAlign -0.0340150  0.0292269  -1.164  0.24449
respUnnamedCiteLog:ideoAlign -0.0267570  0.0099059  -2.701  0.00691 **
respMajCallOutLog:ideoAlign  0.0022779  0.0638883   0.036  0.97156
respDissentLog:ideoAlign     0.0172015  0.0278366   0.618  0.53661
respConcurrenceLog:ideoAlign -0.0004533  0.0290222  -0.016  0.98754
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 28 > 12.
Use print(x, correlation=TRUE)  or
```

```
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2logCitesSepSplit)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petDissentLog + petConcurrenceLog + respUnnamedCiteLog +
    respMajCallOutLog + respDissentLog + respConcurrenceLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog * ideoAlign +
    petMajCallOutLog * ideoAlign + petDissentLog * ideoAlign +
    petConcurrenceLog * ideoAlign + respUnnamedCiteLog * ideoAlign +
    respMajCallOutLog * ideoAlign + respDissentLog * ideoAlign +
    respConcurrenceLog * ideoAlign + (1 | issueArea) + (1 | term) +
    (1 | justice), data = model2data, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"))
                             coef.est coef.se
(Intercept)                   0.58     0.12
petUnnamedCiteLog             0.20     0.02
petMajCallOutLog             -0.07     0.14
petDissentLog                -0.03     0.06
petConcurrenceLog             0.25     0.06
respUnnamedCiteLog           -0.15     0.02
respMajCallOutLog             0.03     0.13
respDissentLog                0.05     0.06
respConcurrenceLog           -0.06     0.06
ideoAlign                     0.08     0.01
pastExpertise                 0.00     0.00
logPetNumCites                0.04     0.03
logRespNumCites              -0.12     0.03
petExperienceAdvantage        0.00     0.00
sgParty                       0.59     0.03
lcDisagreement                0.02     0.03
amiciNet                      0.05     0.00
helpOSG                       0.67     0.04
netStatus                     0.00     0.00
oaQuestDiff                  -0.02     0.00
petUnnamedCiteLog:ideoAlign   0.02     0.01
petMajCallOutLog:ideoAlign   -0.12     0.06
petDissentLog:ideoAlign       0.03     0.03
petConcurrenceLog:ideoAlign  -0.03     0.03
respUnnamedCiteLog:ideoAlign -0.03     0.01
respMajCallOutLog:ideoAlign   0.00     0.06
respDissentLog:ideoAlign      0.02     0.03
respConcurrenceLog:ideoAlign  0.00     0.03

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27127.4, DIC = 26736.1
```

```
deviance = 26900.7
>
> ###################################
> ### STEP 4D: WRITE OUT THE TABLE ###
> ###################################
>
> stargazer(model2logCites, model2allCall, model2allCites, model2logCitesSepSplit, align = TRUE,
omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 20:55:45
% Requires LaTeX packages: dcolumn
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} D{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
 & \multicolumn{4}{c}{\textit{Dependent variable:}} \\
\cline{2-5}
\\[-1.8ex] & \multicolumn{4}{c}{voteWithPet} \\
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)} & \multicolumn{1}{c}{(3)} &
\multicolumn{1}{c}{(4)}\\
\hline \\[-1.8ex]
 petUnnamedCiteLog & 0.200^{***} & 0.198^{***} &  & 0.196^{***} \\
  & (0.024) & (0.024) &  & (0.024) \\
  & & & & \\
 petMajCallOutLog & -0.078 &  &  & -0.070 \\
  & (0.136) &  &  & (0.136) \\
  & & & & \\
 petNotMajOpinLog & 0.176^{***} &  &  &  \\
  & (0.046) &  &  &  \\
  & & & & \\
 petAllCallOutLog &  & 0.155^{***} &  &  \\
  &  & (0.043) &  &  \\
  & & & & \\
 petDissentLog &  &  &  & -0.033 \\
  &  &  &  & (0.064) \\
  & & & & \\
 petConcurrenceLog &  &  &  & 0.246^{***} \\
  &  &  &  & (0.062) \\
  & & & & \\
 respUnnamedCiteLog & -0.150^{***} & -0.151^{***} &  & -0.149^{***} \\
  & (0.024) & (0.024) &  & (0.024) \\
  & & & & \\
 respMajCallOutLog & 0.033 &  &  & 0.034 \\
  & (0.128) &  &  & (0.128) \\
  & & & & \\
 respNotMajOpinLog & -0.032 &  &  &  \\
  & (0.045) &  &  &  \\
  & & & & \\
 respAllCallOutLog &  & -0.021 &  &  \\
  &  & (0.042) &  &  \\
  & & & & \\
 petAllCitesLog &  &  & 0.207^{***} &  \\
  &  &  & (0.023) &  \\
  & & & & \\
```

```
respAllCitesLog &  &  & -0.147^{***} &  \\
 &  &  & (0.023) &  \\
 & & & & \\
respDissentLog &  &  &  & 0.046 \\
 &  &  &  & (0.065) \\
 & & & & \\
respConcurrenceLog &  &  &  & -0.064 \\
 &  &  &  & (0.060) \\
 & & & & \\
ideoAlign & 0.079^{***} & 0.080^{***} & 0.080^{***} & 0.078^{***} \\
 & (0.010) & (0.010) & (0.010) & (0.010) \\
 & & & & \\
pastExpertise & 0.001 & 0.001 & 0.001 & 0.001 \\
 & (0.001) & (0.001) & (0.001) & (0.001) \\
 & & & & \\
logPetNumCites & 0.036 & 0.036 & 0.042 & 0.043^{*} \\
 & (0.026) & (0.026) & (0.026) & (0.026) \\
 & & & & \\
logRespNumCites & -0.122^{***} & -0.121^{***} & -0.120^{***} & -0.124^{***} \\
 & (0.027) & (0.027) & (0.026) & (0.026) \\
 & & & & \\
petExperienceAdvantage & 0.0005 & 0.0005 & 0.0005 & 0.0005 \\
 & (0.0004) & (0.0004) & (0.0004) & (0.0004) \\
 & & & & \\
sgParty & 0.590^{***} & 0.590^{***} & 0.589^{***} & 0.588^{***} \\
 & (0.028) & (0.028) & (0.028) & (0.028) \\
 & & & & \\
lcDisagreement & 0.019 & 0.018 & 0.020 & 0.018 \\
 & (0.034) & (0.034) & (0.034) & (0.034) \\
 & & & & \\
amiciNet & 0.047^{***} & 0.047^{***} & 0.047^{***} & 0.047^{***} \\
 & (0.004) & (0.004) & (0.004) & (0.004) \\
 & & & & \\
helpOSG & 0.674^{***} & 0.675^{***} & 0.674^{***} & 0.673^{***} \\
 & (0.042) & (0.042) & (0.042) & (0.042) \\
 & & & & \\
netStatus & -0.004 & -0.004 & -0.004 & -0.004 \\
 & (0.004) & (0.004) & (0.004) & (0.004) \\
 & & & & \\
oaQuestDiff & -0.016^{***} & -0.016^{***} & -0.016^{***} & -0.016^{***} \\
 & (0.001) & (0.001) & (0.001) & (0.001) \\
 & & & & \\
petUnnamedCiteLog:ideoAlign & 0.024^{**} & 0.023^{**} &  & 0.023^{**} \\
 & (0.010) & (0.010) &  & (0.010) \\
 & & & & \\
petMajCallOutLog:ideoAlign & -0.120^{*} &  &  & -0.121^{*} \\
 & (0.064) &  &  & (0.064) \\
 & & & & \\
petNotMajOpinLog:ideoAlign & -0.017 &  &  &  \\
 & (0.020) &  &  &  \\
 & & & & \\
petAllCallOutLog:ideoAlign &  & -0.032^{*} &  &  \\
 &  & (0.019) &  &  \\
 & & & & \\
petDissentLog:ideoAlign &  &  &  & 0.033 \\
 &  &  &  & (0.028) \\
 & & & & \\
petConcurrenceLog:ideoAlign &  &  &  & -0.034 \\
```

```
  &  &  &  & (0.029) \\
  & & & & \\
 respUnnamedCiteLog:ideoAlign & -0.026^{***} & -0.026^{***} &  & -0.027^{***} \\
  & (0.010) & (0.010) &  & (0.010) \\
  & & & & \\
 respMajCallOutLog:ideoAlign & 0.012 &  &  & 0.002 \\
  & (0.064) &  &  & (0.064) \\
  & & & & \\
 respNotMajOpinLog:ideoAlign & 0.013 &  &  &  \\
  & (0.020) &  &  &  \\
  & & & & \\
 respAllCallOutLog:ideoAlign &  & 0.017 &  &  \\
  &  & (0.019) &  &  \\
  & & & & \\
 petAllCitesLog:ideoAlign &  &  & 0.013 &  \\
  &  &  & (0.010) &  \\
  & & & & \\
 respAllCitesLog:ideoAlign &  &  & -0.020^{**} &  \\
  &  &  & (0.009) &  \\
  & & & & \\
 respDissentLog:ideoAlign &  &  &  & 0.017 \\
  &  &  &  & (0.028) \\
  & & & & \\
 respConcurrenceLog:ideoAlign &  &  &  & -0.0005 \\
  &  &  &  & (0.029) \\
  & & & & \\
 Constant & 0.593^{***} & 0.593^{***} & 0.570^{***} & 0.582^{***} \\
  & (0.124) & (0.124) & (0.123) & (0.123) \\
  & & & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,665} &
\multicolumn{1}{c}{21,665} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,122.320} & \multicolumn{1}{c}{27,118.220} & \multicolumn{1}
{c}{27,122.850} & \multicolumn{1}{c}{27,127.380} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,337.880} & \multicolumn{1}{c}{27,301.830} &
\multicolumn{1}{c}{27,274.540} & \multicolumn{1}{c}{27,374.870} \\
\hline
\hline \\[-1.8ex]
\textit{Note:}  & \multicolumn{4}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
> 
> ####################################
> ### STEP 5: ISSUE AREA MQ SCORES ###
> ####################################
> 
> # Table B3 in the Supplemental Appendix
> 
> # notes:
> # - For Issue Areas 11, 13, 14, just issued the full Court MQ scores due to sparsity
> # - all other issue area MQ scores calculated using MQ code + 2024 update to MCMCpack
> # - note that issue areas 6, 7, and 12 are not particularly stable
> #     - there's less data missing than 11, 13, and 14, but still a lot of issues with stability
> #     - mostly driven by the docket drop off in the 1990s
> 
> # if there's an NA for model2data$issueMean, drop it out
> # means there wasn't enough data to get an estimate
> model2dataIssue <- model2data %>% filter(!is.na(issueMean))
```

```
>
> ##############################
> ### STEP 5A: RUN THE MODEL ###
> ##############################
>
> ### TABLE B3, COLUMN 2 ###
>
> model2issueMQ <- glmer(voteWithPet ~ petUnnamedCiteLog
+                            + petMajCallOutLog
+                            + petNotMajOpinLog
+                            + respUnnamedCiteLog
+                            + respMajCallOutLog
+                            + respNotMajOpinLog
+                            + ideoAlignIssue
+                            + pastExpertise
+                            + logPetNumCites
+                            + logRespNumCites
+                            + petExperienceAdvantage
+                            + sgParty
+                            + lcDisagreement
+                            + amiciNet
+                            + helpOSG
+                            + netStatus
+                            + oaQuestDiff
+                            + petUnnamedCiteLog * ideoAlignIssue
+                            + petMajCallOutLog * ideoAlignIssue
+                            + petNotMajOpinLog * ideoAlignIssue
+                            + respUnnamedCiteLog * ideoAlignIssue
+                            + respMajCallOutLog * ideoAlignIssue
+                            + respNotMajOpinLog * ideoAlignIssue
+                            + (1 | issueArea)
+                            + (1 | term)
+                            + (1 | justice),
+                            data = model2dataIssue,
+                            family = binomial(link = logit),
+                            glmerControl(optimizer = "Nelder_Mead"))
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00294758 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2issueMQ)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlignIssue + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog * ideoAlignIssue +
    petMajCallOutLog * ideoAlignIssue + petNotMajOpinLog * ideoAlignIssue +
    respUnnamedCiteLog * ideoAlignIssue + respMajCallOutLog *
    ideoAlignIssue + respNotMajOpinLog * ideoAlignIssue + (1 |
    issueArea) + (1 | term) + (1 | justice)
   Data: model2dataIssue
Control: glmerControl(optimizer = "Nelder_Mead")
```

```
     AIC      BIC   logLik deviance df.resid
 26964.3  27179.7 -13455.2  26910.3    21516

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.7536 -0.9651  0.5184  0.7870  4.4391

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03320  0.1822
 justice   (Intercept) 0.02530  0.1591
 issueArea (Intercept) 0.02579  0.1606
Number of obs: 21543, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                                  Estimate Std. Error z value Pr(>|z|)
(Intercept)                       0.6057934  0.1245723   4.863 1.16e-06 ***
petUnnamedCiteLog                 0.1978947  0.0240629   8.224  < 2e-16 ***
petMajCallOutLog                 -0.0731810  0.1358240  -0.539 0.590030
petNotMajOpinLog                  0.1725615  0.0455971   3.784 0.000154 ***
respUnnamedCiteLog               -0.1496886  0.0239165  -6.259 3.88e-10 ***
respMajCallOutLog                 0.0288631  0.1281325   0.225 0.821777
respNotMajOpinLog                -0.0309600  0.0453721  -0.682 0.495013
ideoAlignIssue                    0.0970557  0.0100711   9.637  < 2e-16 ***
pastExpertise                     0.0004614  0.0005378   0.858 0.390981
logPetNumCites                    0.0335668  0.0262182   1.280 0.200444
logRespNumCites                  -0.1204949  0.0266432  -4.523 6.11e-06 ***
petExperienceAdvantage            0.0004806  0.0003550   1.354 0.175800
sgParty                           0.5873162  0.0277127  21.193  < 2e-16 ***
lcDisagreement                    0.0154731  0.0339193   0.456 0.648266
amiciNet                          0.0468628  0.0040670  11.523  < 2e-16 ***
helpOSG                           0.6713672  0.0419036  16.022  < 2e-16 ***
netStatus                        -0.0043042  0.0035783  -1.203 0.229034
oaQuestDiff                      -0.0163794  0.0006799 -24.089  < 2e-16 ***
petUnnamedCiteLog:ideoAlignIssue  0.0249018  0.0101606   2.451 0.014253 *
petMajCallOutLog:ideoAlignIssue  -0.1021465  0.0631679  -1.617 0.105864
petNotMajOpinLog:ideoAlignIssue  -0.0286691  0.0192002  -1.493 0.135395
respUnnamedCiteLog:ideoAlignIssue -0.0373847  0.0098979  -3.777 0.000159 ***
respMajCallOutLog:ideoAlignIssue  0.0302507  0.0649912   0.465 0.641603
respNotMajOpinLog:ideoAlignIssue  0.0089020  0.0197058   0.452 0.651451
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 24 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00294758 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2issueMQ)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlignIssue + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog *
```

```
    ideoAlignIssue + petMajCallOutLog * ideoAlignIssue + petNotMajOpinLog *
    ideoAlignIssue + respUnnamedCiteLog * ideoAlignIssue + respMajCallOutLog *
    ideoAlignIssue + respNotMajOpinLog * ideoAlignIssue + (1 |
    issueArea) + (1 | term) + (1 | justice), data = model2dataIssue,
    family = binomial(link = logit), control = glmerControl(optimizer = "Nelder_Mead"))
                                 coef.est coef.se
(Intercept)                       0.61     0.12
petUnnamedCiteLog                 0.20     0.02
petMajCallOutLog                 -0.07     0.14
petNotMajOpinLog                  0.17     0.05
respUnnamedCiteLog               -0.15     0.02
respMajCallOutLog                 0.03     0.13
respNotMajOpinLog                -0.03     0.05
ideoAlignIssue                    0.10     0.01
pastExpertise                     0.00     0.00
logPetNumCites                    0.03     0.03
logRespNumCites                  -0.12     0.03
petExperienceAdvantage            0.00     0.00
sgParty                           0.59     0.03
lcDisagreement                    0.02     0.03
amiciNet                          0.05     0.00
helpOSG                           0.67     0.04
netStatus                         0.00     0.00
oaQuestDiff                      -0.02     0.00
petUnnamedCiteLog:ideoAlignIssue  0.02     0.01
petMajCallOutLog:ideoAlignIssue  -0.10     0.06
petNotMajOpinLog:ideoAlignIssue  -0.03     0.02
respUnnamedCiteLog:ideoAlignIssue -0.04    0.01
respMajCallOutLog:ideoAlignIssue  0.03     0.06
respNotMajOpinLog:ideoAlignIssue  0.01     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.16
 issueArea (Intercept) 0.16
 Residual              1.00
---
number of obs: 21543, groups: term, 35; justice, 21; issueArea, 12
AIC = 26964.3, DIC = 26580.9
deviance = 26745.6
>
> ####################################
> ### STEP 5B: WRITE OUT THE TABLE ###
> ####################################
>
> stargazer(model2logCites, model2issueMQ, align = TRUE, omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 20:57:06
% Requires LaTeX packages: dcolumn
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
```

```
 & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
\cline{2-3}
\\[-1.8ex] & \multicolumn{2}{c}{voteWithPet} \\
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)}\\
\hline \\[-1.8ex]
 petUnnamedCiteLog & 0.200^{***} & 0.198^{***} \\
  & (0.024) & (0.024) \\
  & & \\
 petMajCallOutLog & -0.078 & -0.073 \\
  & (0.136) & (0.136) \\
  & & \\
 petNotMajOpinLog & 0.176^{***} & 0.173^{***} \\
  & (0.046) & (0.046) \\
  & & \\
 respUnnamedCiteLog & -0.150^{***} & -0.150^{***} \\
  & (0.024) & (0.024) \\
  & & \\
 respMajCallOutLog & 0.033 & 0.029 \\
  & (0.128) & (0.128) \\
  & & \\
 respNotMajOpinLog & -0.032 & -0.031 \\
  & (0.045) & (0.045) \\
  & & \\
 ideoAlign & 0.079^{***} &  \\
  & (0.010) &  \\
  & & \\
 ideoAlignIssue &  & 0.097^{***} \\
  &  & (0.010) \\
  & & \\
 pastExpertise & 0.001 & 0.0005 \\
  & (0.001) & (0.001) \\
  & & \\
 logPetNumCites & 0.036 & 0.034 \\
  & (0.026) & (0.026) \\
  & & \\
 logRespNumCites & -0.122^{***} & -0.120^{***} \\
  & (0.027) & (0.027) \\
  & & \\
 petExperienceAdvantage & 0.0005 & 0.0005 \\
  & (0.0004) & (0.0004) \\
  & & \\
 sgParty & 0.590^{***} & 0.587^{***} \\
  & (0.028) & (0.028) \\
  & & \\
 lcDisagreement & 0.019 & 0.015 \\
  & (0.034) & (0.034) \\
  & & \\
 amiciNet & 0.047^{***} & 0.047^{***} \\
  & (0.004) & (0.004) \\
  & & \\
 helpOSG & 0.674^{***} & 0.671^{***} \\
  & (0.042) & (0.042) \\
  & & \\
 netStatus & -0.004 & -0.004 \\
  & (0.004) & (0.004) \\
  & & \\
 oaQuestDiff & -0.016^{***} & -0.016^{***} \\
  & (0.001) & (0.001) \\
```

```
 & & \\
petUnnamedCiteLog:ideoAlign & 0.024^{**} &  \\
 & (0.010) &  \\
 & & \\
petMajCallOutLog:ideoAlign & -0.120^{*} &  \\
 & (0.064) &  \\
 & & \\
petNotMajOpinLog:ideoAlign & -0.017 &  \\
 & (0.020) &  \\
 & & \\
respUnnamedCiteLog:ideoAlign & -0.026^{***} &  \\
 & (0.010) &  \\
 & & \\
respMajCallOutLog:ideoAlign & 0.012 &  \\
 & (0.064) &  \\
 & & \\
respNotMajOpinLog:ideoAlign & 0.013 &  \\
 & (0.020) &  \\
 & & \\
petUnnamedCiteLog:ideoAlignIssue &  & 0.025^{**} \\
 &  & (0.010) \\
 & & \\
petMajCallOutLog:ideoAlignIssue &  & -0.102 \\
 &  & (0.063) \\
 & & \\
petNotMajOpinLog:ideoAlignIssue &  & -0.029 \\
 &  & (0.019) \\
 & & \\
respUnnamedCiteLog:ideoAlignIssue &  & -0.037^{***} \\
 &  & (0.010) \\
 & & \\
respMajCallOutLog:ideoAlignIssue &  & 0.030 \\
 &  & (0.065) \\
 & & \\
respNotMajOpinLog:ideoAlignIssue &  & 0.009 \\
 &  & (0.020) \\
 & & \\
Constant & 0.593^{***} & 0.606^{***} \\
 & (0.124) & (0.125) \\
 & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,543} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,122.320} & \multicolumn{1}{c}{26,964.350} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,337.880} & \multicolumn{1}{c}{27,179.750} \\
\hline
\hline \\[-1.8ex]
\textit{Note:}  & \multicolumn{2}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
>
> ################################################
> ### STEP 6: KITCHEN SINK MODEL: CLERKS AND CSI ###
> ################################################
>
> # Table B4 in the Supplemental Appendix
>
> ##############################
> ### STEP 6A: RUN THE MODEL ###
```

```
> ##############################
>
> ### TABLE B4, COLUMN 2 ###
> model2big <- glmer(voteWithPet ~ petUnnamedCiteLog
+                            + petMajCallOutLog
+                            + petNotMajOpinLog
+                            + respUnnamedCiteLog
+                            + respMajCallOutLog
+                            + respNotMajOpinLog
+                            + ideoAlign
+                            + pastExpertise
+                            + logPetNumCites
+                            + logRespNumCites
+                            + petExperienceAdvantage
+                            + sgParty
+                            + lcDisagreement
+                            + amiciNet
+                            + helpOSG
+                            + netStatus
+                            + oaQuestDiff
+                            + petFormerClerk
+                            + respFormerClerk
+                            + CSI
+                            + petUnnamedCiteLog * ideoAlign
+                            + petMajCallOutLog * ideoAlign
+                            + petNotMajOpinLog * ideoAlign
+                            + respUnnamedCiteLog * ideoAlign
+                            + respMajCallOutLog * ideoAlign
+                            + respNotMajOpinLog * ideoAlign
+                            + (1 | issueArea)
+                            + (1 | term)
+                            + (1 | justice),
+                            data = model2data,
+                            family = binomial(link = logit),
+                            glmerControl(optimizer = "Nelder_Mead"))
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00360196 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2big)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petFormerClerk + respFormerClerk +
    CSI + petUnnamedCiteLog * ideoAlign + petMajCallOutLog *
    ideoAlign + petNotMajOpinLog * ideoAlign + respUnnamedCiteLog *
    ideoAlign + respMajCallOutLog * ideoAlign + respNotMajOpinLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: model2data
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
```

```
 27126.4  27365.9 -13533.2  27066.4    21635

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.7435 -0.9625  0.5195  0.7876  4.4146

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03017  0.1737
 justice   (Intercept) 0.02937  0.1714
 issueArea (Intercept) 0.02384  0.1544
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.5901795  0.1244736   4.741 2.12e-06 ***
petUnnamedCiteLog            0.1991261  0.0240049   8.295  < 2e-16 ***
petMajCallOutLog            -0.0760737  0.1358866  -0.560  0.57559
petNotMajOpinLog             0.1787208  0.0456416   3.916 9.01e-05 ***
respUnnamedCiteLog          -0.1505954  0.0238525  -6.314 2.73e-10 ***
respMajCallOutLog            0.0359128  0.1281529   0.280  0.77930
respNotMajOpinLog           -0.0299472  0.0453103  -0.661  0.50865
ideoAlign                    0.0786206  0.0096583   8.140 3.95e-16 ***
pastExpertise                0.0005556  0.0005230   1.062  0.28807
logPetNumCites               0.0384052  0.0262849   1.461  0.14398
logRespNumCites             -0.1180686  0.0266781  -4.426 9.61e-06 ***
petExperienceAdvantage       0.0004768  0.0003563   1.338  0.18080
sgParty                      0.5900321  0.0289814  20.359  < 2e-16 ***
lcDisagreement               0.0241786  0.0340582   0.710  0.47775
amiciNet                     0.0468624  0.0040656  11.526  < 2e-16 ***
helpOSG                      0.6732601  0.0422366  15.940  < 2e-16 ***
netStatus                   -0.0037664  0.0035725  -1.054  0.29176
oaQuestDiff                 -0.0164084  0.0006803 -24.118  < 2e-16 ***
petFormerClerk               0.0108118  0.0357137   0.303  0.76209
respFormerClerk             -0.0017224  0.0341224  -0.050  0.95974
CSI                         -0.0097676  0.0072085  -1.355  0.17541
petUnnamedCiteLog:ideoAlign  0.0237201  0.0101060   2.347  0.01892 *
petMajCallOutLog:ideoAlign  -0.1203582  0.0635677  -1.893  0.05831 .
petNotMajOpinLog:ideoAlign  -0.0178305  0.0201987  -0.883  0.37737
respUnnamedCiteLog:ideoAlign -0.0258149  0.0098791  -2.613  0.00897 **
respMajCallOutLog:ideoAlign  0.0118397  0.0639944   0.185  0.85322
respNotMajOpinLog:ideoAlign  0.0129525  0.0203823   0.635  0.52512
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 27 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00360196 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2big)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlign + pastExpertise + logPetNumCites +
```

```
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petFormerClerk +
    respFormerClerk + CSI + petUnnamedCiteLog * ideoAlign + petMajCallOutLog *
    ideoAlign + petNotMajOpinLog * ideoAlign + respUnnamedCiteLog *
    ideoAlign + respMajCallOutLog * ideoAlign + respNotMajOpinLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice),
    data = model2data, family = binomial(link = logit), control = glmerControl(optimizer =
"Nelder_Mead"))
                             coef.est coef.se
(Intercept)                   0.59     0.12
petUnnamedCiteLog             0.20     0.02
petMajCallOutLog             -0.08     0.14
petNotMajOpinLog              0.18     0.05
respUnnamedCiteLog           -0.15     0.02
respMajCallOutLog             0.04     0.13
respNotMajOpinLog            -0.03     0.05
ideoAlign                     0.08     0.01
pastExpertise                 0.00     0.00
logPetNumCites                0.04     0.03
logRespNumCites              -0.12     0.03
petExperienceAdvantage        0.00     0.00
sgParty                       0.59     0.03
lcDisagreement                0.02     0.03
amiciNet                      0.05     0.00
helpOSG                       0.67     0.04
netStatus                     0.00     0.00
oaQuestDiff                  -0.02     0.00
petFormerClerk                0.01     0.04
respFormerClerk               0.00     0.03
CSI                          -0.01     0.01
petUnnamedCiteLog:ideoAlign   0.02     0.01
petMajCallOutLog:ideoAlign   -0.12     0.06
petNotMajOpinLog:ideoAlign   -0.02     0.02
respUnnamedCiteLog:ideoAlign -0.03     0.01
respMajCallOutLog:ideoAlign   0.01     0.06
respNotMajOpinLog:ideoAlign   0.01     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.17
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27126.4, DIC = 26738.1
deviance = 26902.3
>
> ####################################
> ### STEP 6B: WRITE OUT THE TABLE ###
> ####################################
>
> stargazer(model2logCites, model2big, align = TRUE, omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 20:59:09
% Requires LaTeX packages: dcolumn
```

```
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
 & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
\cline{2-3}
\\[-1.8ex] & \multicolumn{2}{c}{voteWithPet} \\
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)}\\
\hline \\[-1.8ex]
 petUnnamedCiteLog & 0.200^{***} & 0.199^{***} \\
  & (0.024) & (0.024) \\
  & & \\
 petMajCallOutLog & -0.078 & -0.076 \\
  & (0.136) & (0.136) \\
  & & \\
 petNotMajOpinLog & 0.176^{***} & 0.179^{***} \\
  & (0.046) & (0.046) \\
  & & \\
 respUnnamedCiteLog & -0.150^{***} & -0.151^{***} \\
  & (0.024) & (0.024) \\
  & & \\
 respMajCallOutLog & 0.033 & 0.036 \\
  & (0.128) & (0.128) \\
  & & \\
 respNotMajOpinLog & -0.032 & -0.030 \\
  & (0.045) & (0.045) \\
  & & \\
 ideoAlign & 0.079^{***} & 0.079^{***} \\
  & (0.010) & (0.010) \\
  & & \\
 pastExpertise & 0.001 & 0.001 \\
  & (0.001) & (0.001) \\
  & & \\
 logPetNumCites & 0.036 & 0.038 \\
  & (0.026) & (0.026) \\
  & & \\
 logRespNumCites & -0.122^{***} & -0.118^{***} \\
  & (0.027) & (0.027) \\
  & & \\
 petExperienceAdvantage & 0.0005 & 0.0005 \\
  & (0.0004) & (0.0004) \\
  & & \\
 sgParty & 0.590^{***} & 0.590^{***} \\
  & (0.028) & (0.029) \\
  & & \\
 lcDisagreement & 0.019 & 0.024 \\
  & (0.034) & (0.034) \\
  & & \\
 amiciNet & 0.047^{***} & 0.047^{***} \\
  & (0.004) & (0.004) \\
  & & \\
 helpOSG & 0.674^{***} & 0.673^{***} \\
  & (0.042) & (0.042) \\
  & & \\
 netStatus & -0.004 & -0.004 \\
  & (0.004) & (0.004) \\
```

```
 & & \\
oaQuestDiff & -0.016^{***} & -0.016^{***} \\
 & (0.001) & (0.001) \\
 & & \\
petFormerClerk &  & 0.011 \\
 &  & (0.036) \\
 & & \\
respFormerClerk &  & -0.002 \\
 &  & (0.034) \\
 & & \\
CSI &  & -0.010 \\
 &  & (0.007) \\
 & & \\
petUnnamedCiteLog:ideoAlign & 0.024^{**} & 0.024^{**} \\
 & (0.010) & (0.010) \\
 & & \\
petMajCallOutLog:ideoAlign & -0.120^{*} & -0.120^{*} \\
 & (0.064) & (0.064) \\
 & & \\
petNotMajOpinLog:ideoAlign & -0.017 & -0.018 \\
 & (0.020) & (0.020) \\
 & & \\
respUnnamedCiteLog:ideoAlign & -0.026^{***} & -0.026^{***} \\
 & (0.010) & (0.010) \\
 & & \\
respMajCallOutLog:ideoAlign & 0.012 & 0.012 \\
 & (0.064) & (0.064) \\
 & & \\
respNotMajOpinLog:ideoAlign & 0.013 & 0.013 \\
 & (0.020) & (0.020) \\
 & & \\
Constant & 0.593^{***} & 0.590^{***} \\
 & (0.124) & (0.124) \\
 & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,665} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,122.320} & \multicolumn{1}{c}{27,126.430} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,337.880} & \multicolumn{1}{c}{27,365.940} \\
\hline
\hline \\[-1.8ex]
\textit{Note:}  & \multicolumn{2}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
>
> ################################################
> ### STEP 7: COSINE SIMILARITY AND READABILITY ###
> ################################################
>
> # Table B5 in the Supplemental Appendix
>
> # read in data with Hazelton and Hinkle variables
> model2dataRead <- read.csv("~/Dropbox/VanityCitations/JOP\ Final/Dataverse/
Analysis2DataAppendixPart2.csv")
>
> ############################
> ### STEP 7A: READBILITY ###
> ############################
>
```

```
> # ONE: Run the full model in the paper, but it's truncated to 2015 because of the data
>
> ### TABLE B5, COLUMN 2 ###
>
> model2full2015 <- glmer(voteWithPet ~ petUnnamedCiteLog
+                           + petMajCallOutLog
+                           + petNotMajOpinLog
+                           + respUnnamedCiteLog
+                           + respMajCallOutLog
+                           + respNotMajOpinLog
+                           + ideoAlign
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petUnnamedCiteLog * ideoAlign
+                           + petMajCallOutLog * ideoAlign
+                           + petNotMajOpinLog * ideoAlign
+                           + respUnnamedCiteLog * ideoAlign
+                           + respMajCallOutLog * ideoAlign
+                           + respNotMajOpinLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2dataRead,
+                           family = binomial(link = logit))
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00386808 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>                           )
Error: unexpected ')' in "                                                    )"
>
> summary(model2full2015)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog * ideoAlign +
    petMajCallOutLog * ideoAlign + petNotMajOpinLog * ideoAlign +
    respUnnamedCiteLog * ideoAlign + respMajCallOutLog * ideoAlign +
    respNotMajOpinLog * ideoAlign + (1 | issueArea) + (1 | term) +      (1 | justice)
   Data: model2dataRead

     AIC      BIC   logLik deviance df.resid
 26723.7  26938.6 -13334.8  26669.7    21179

Scaled residuals:
```

```
    Min      1Q  Median      3Q     Max
-3.4122 -0.9655  0.5251  0.7939  3.2782

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.02823  0.1680
 justice   (Intercept) 0.02224  0.1491
 issueArea (Intercept) 0.02805  0.1675
Number of obs: 21206, groups:  term, 32; justice, 19; issueArea, 12

Fixed effects:
                              Estimate Std. Error z value Pr(>|z|)
(Intercept)                  0.8176663  0.1240752   6.590 4.40e-11 ***
petUnnamedCiteLog            0.2144327  0.0241855   8.866  < 2e-16 ***
petMajCallOutLog             0.0535777  0.1343686   0.399  0.69009
petNotMajOpinLog             0.1357268  0.0445827   3.044  0.00233 **
respUnnamedCiteLog          -0.1640827  0.0241403  -6.797 1.07e-11 ***
respMajCallOutLog            0.0318368  0.1186955   0.268  0.78853
respNotMajOpinLog           -0.0331465  0.0437168  -0.758  0.44833
ideoAlign                    0.0783005  0.0097994   7.990 1.35e-15 ***
pastExpertise                0.0003321  0.0005098   0.652  0.51471
logPetNumCites              -0.0154981  0.0263612  -0.588  0.55659
logRespNumCites             -0.1377124  0.0266838  -5.161 2.46e-07 ***
petExperienceAdvantage       0.0005458  0.0003569   1.529  0.12620
sgParty                      0.5717389  0.0274779  20.807  < 2e-16 ***
lcDisagreement               0.0448390  0.0339631   1.320  0.18676
amiciNet                     0.0303890  0.0036864   8.243  < 2e-16 ***
helpOSG                      0.5810650  0.0429158  13.540  < 2e-16 ***
netStatus                    0.0065945  0.0035531   1.856  0.06345 .
oaQuestDiff                 -0.0150241  0.0006766 -22.205  < 2e-16 ***
petUnnamedCiteLog:ideoAlign  0.0065834  0.0101800   0.647  0.51783
petMajCallOutLog:ideoAlign  -0.1186078  0.0636413  -1.864  0.06237 .
petNotMajOpinLog:ideoAlign  -0.0066466  0.0199516  -0.333  0.73903
respUnnamedCiteLog:ideoAlign -0.0077800  0.0099671  -0.781  0.43506
respMajCallOutLog:ideoAlign  0.0176361  0.0599747   0.294  0.76871
respNotMajOpinLog:ideoAlign -0.0021276  0.0198718  -0.107  0.91474
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 24 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00386808 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2full2015)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petUnnamedCiteLog *
    ideoAlign + petMajCallOutLog * ideoAlign + petNotMajOpinLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respMajCallOutLog *
    ideoAlign + respNotMajOpinLog * ideoAlign + (1 | issueArea) +
    (1 | term) + (1 | justice), data = model2dataRead, family = binomial(link = logit))
```

```
                             coef.est coef.se
(Intercept)                   0.82     0.12
petUnnamedCiteLog             0.21     0.02
petMajCallOutLog              0.05     0.13
petNotMajOpinLog              0.14     0.04
respUnnamedCiteLog           -0.16     0.02
respMajCallOutLog             0.03     0.12
respNotMajOpinLog            -0.03     0.04
ideoAlign                     0.08     0.01
pastExpertise                 0.00     0.00
logPetNumCites               -0.02     0.03
logRespNumCites              -0.14     0.03
petExperienceAdvantage        0.00     0.00
sgParty                       0.57     0.03
lcDisagreement                0.04     0.03
amiciNet                      0.03     0.00
helpOSG                       0.58     0.04
netStatus                     0.01     0.00
oaQuestDiff                  -0.02     0.00
petUnnamedCiteLog:ideoAlign   0.01     0.01
petMajCallOutLog:ideoAlign   -0.12     0.06
petNotMajOpinLog:ideoAlign   -0.01     0.02
respUnnamedCiteLog:ideoAlign -0.01     0.01
respMajCallOutLog:ideoAlign   0.02     0.06
respNotMajOpinLog:ideoAlign   0.00     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.17
 justice   (Intercept) 0.15
 issueArea (Intercept) 0.17
 Residual              1.00
---
number of obs: 21206, groups: term, 32; justice, 19; issueArea, 12
AIC = 26723.7, DIC = 26365
deviance = 26517.3
>
>
> ### TABLE B5, COLUMN 3 ###
>
> model2readability2015 <- glmer(voteWithPet ~ petUnnamedCiteLog
+                             + petMajCallOutLog
+                             + petNotMajOpinLog
+                             + respUnnamedCiteLog
+                             + respMajCallOutLog
+                             + respNotMajOpinLog
+                             + ideoAlign
+                             + pastExpertise
+                             + logPetNumCites
+                             + logRespNumCites
+                             + petExperienceAdvantage
+                             + sgParty
+                             + lcDisagreement
+                             + amiciNet
+                             + helpOSG
+                             + netStatus
+                             + oaQuestDiff
```

```
+                           + petReadability
+                           + respReadability
+                           + petRespCosineSim
+                           + petUnnamedCiteLog * ideoAlign
+                           + petMajCallOutLog * ideoAlign
+                           + petNotMajOpinLog * ideoAlign
+                           + respUnnamedCiteLog * ideoAlign
+                           + respMajCallOutLog * ideoAlign
+                           + respNotMajOpinLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2dataRead,
+                           family = binomial(link = logit)
+                           )
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00303904 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2readability2015)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petReadability + respReadability +
    petRespCosineSim + petUnnamedCiteLog * ideoAlign + petMajCallOutLog *
    ideoAlign + petNotMajOpinLog * ideoAlign + respUnnamedCiteLog *
    ideoAlign + respMajCallOutLog * ideoAlign + respNotMajOpinLog *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: model2dataRead

     AIC      BIC   logLik deviance df.resid
 26707.4  26946.2 -13323.7  26647.4    21176

Scaled residuals:
    Min      1Q  Median      3Q     Max
-3.4754 -0.9661  0.5242  0.7941  3.4740

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03150  0.1775
 justice   (Intercept) 0.02737  0.1654
 issueArea (Intercept) 0.02869  0.1694
Number of obs: 21206, groups:  term, 32; justice, 19; issueArea, 12

Fixed effects:
                            Estimate Std. Error z value Pr(>|z|)
(Intercept)                1.0253549  0.1650803   6.211 5.26e-10 ***
petUnnamedCiteLog          0.2170741  0.0242406   8.955  < 2e-16 ***
petMajCallOutLog           0.0479781  0.1343869   0.357  0.72108
petNotMajOpinLog           0.1345435  0.0446512   3.013  0.00258 **
respUnnamedCiteLog        -0.1625706  0.0242281  -6.710 1.95e-11 ***
respMajCallOutLog          0.0357263  0.1188586   0.301  0.76374
```

```
respNotMajOpinLog            -0.0315209  0.0437941  -0.720  0.47168
ideoAlign                     0.0778330  0.0098070   7.936 2.08e-15 ***
pastExpertise                 0.0004700  0.0005513   0.852  0.39396
logPetNumCites               -0.0195866  0.0264819  -0.740  0.45953
logRespNumCites              -0.1363804  0.0267991  -5.089 3.60e-07 ***
petExperienceAdvantage        0.0006854  0.0003587   1.911  0.05602 .
sgParty                       0.5709592  0.0276429  20.655  < 2e-16 ***
lcDisagreement                0.0404503  0.0340237   1.189  0.23448
amiciNet                      0.0319620  0.0037122   8.610  < 2e-16 ***
helpOSG                       0.5806253  0.0430695  13.481  < 2e-16 ***
netStatus                     0.0065105  0.0035600   1.829  0.06743 .
oaQuestDiff                  -0.0151175  0.0006781 -22.295  < 2e-16 ***
petReadability                0.0933310  0.0219917   4.244 2.20e-05 ***
respReadability              -0.0226420  0.0210028  -1.078  0.28101
petRespCosineSim             -0.2649636  0.1542571  -1.718  0.08586 .
petUnnamedCiteLog:ideoAlign   0.0066714  0.0101895   0.655  0.51264
petMajCallOutLog:ideoAlign   -0.1205637  0.0636132  -1.895  0.05806 .
petNotMajOpinLog:ideoAlign   -0.0061331  0.0199585  -0.307  0.75862
respUnnamedCiteLog:ideoAlign -0.0072772  0.0099764  -0.729  0.46573
respMajCallOutLog:ideoAlign   0.0160154  0.0600553   0.267  0.78972
respNotMajOpinLog:ideoAlign  -0.0032989  0.0198803  -0.166  0.86821
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 27 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00303904 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2readability2015)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petReadability +
    respReadability + petRespCosineSim + petUnnamedCiteLog *
    ideoAlign + petMajCallOutLog * ideoAlign + petNotMajOpinLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respMajCallOutLog *
    ideoAlign + respNotMajOpinLog * ideoAlign + (1 | issueArea) +
    (1 | term) + (1 | justice), data = model2dataRead, family = binomial(link = logit))
                            coef.est coef.se
(Intercept)                  1.03     0.17
petUnnamedCiteLog            0.22     0.02
petMajCallOutLog             0.05     0.13
petNotMajOpinLog             0.13     0.04
respUnnamedCiteLog          -0.16     0.02
respMajCallOutLog            0.04     0.12
respNotMajOpinLog           -0.03     0.04
ideoAlign                    0.08     0.01
pastExpertise                0.00     0.00
logPetNumCites              -0.02     0.03
logRespNumCites             -0.14     0.03
petExperienceAdvantage       0.00     0.00
sgParty                      0.57     0.03
```

```
lcDisagreement                0.04     0.03
amiciNet                      0.03     0.00
helpOSG                       0.58     0.04
netStatus                     0.01     0.00
oaQuestDiff                  -0.02     0.00
petReadability                0.09     0.02
respReadability              -0.02     0.02
petRespCosineSim             -0.26     0.15
petUnnamedCiteLog:ideoAlign   0.01     0.01
petMajCallOutLog:ideoAlign   -0.12     0.06
petNotMajOpinLog:ideoAlign   -0.01     0.02
respUnnamedCiteLog:ideoAlign -0.01     0.01
respMajCallOutLog:ideoAlign   0.02     0.06
respNotMajOpinLog:ideoAlign   0.00     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.17
 Residual              1.00
---
number of obs: 21206, groups: term, 32; justice, 19; issueArea, 12
AIC = 26707.4, DIC = 26328.7
deviance = 26488.1
>
> ###################################
> ### STEP 7B: COSINE SIMILARITY ###
> ###################################
>
> # read in Hazelton and Hinkle cosine similarity data
> # this is cosine similarity between party + ACBs
> # it's going to drop a ton of stuff out -- not every case has amicus filers on both sides, let alone
data for that
> model2dataCos <- read.csv("~/Dropbox/VanityCitations/JOP\ Final/Dataverse/
Analysis2DataAppendixPart3.csv")
>
> ### TABLE B5, COLUMN 4 ###
>
> model2amicusCosine2015 <- glmer(voteWithPet ~ petUnnamedCiteLog
+                           + petMajCallOutLog
+                           + petNotMajOpinLog
+                           + respUnnamedCiteLog
+                           + respMajCallOutLog
+                           + respNotMajOpinLog
+                           + ideoAlign
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petReadability
+                           + respReadability
```

```
+                           + petRespCosineSim
+                           + petAmicusCosine
+                           + respAmicusCosine
+                           + petUnnamedCiteLog * ideoAlign
+                           + petMajCallOutLog * ideoAlign
+                           + petNotMajOpinLog * ideoAlign
+                           + respUnnamedCiteLog * ideoAlign
+                           + respMajCallOutLog * ideoAlign
+                           + respNotMajOpinLog * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = model2dataCos,
+                           family = binomial(link = logit)
+                           )
Warning messages:
1: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.00469566 (tol = 0.002, component 1)
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2amicusCosine2015)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog + petNotMajOpinLog +
    respUnnamedCiteLog + respMajCallOutLog + respNotMajOpinLog +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petReadability + respReadability +
    petRespCosineSim + petAmicusCosine + respAmicusCosine + petUnnamedCiteLog *
    ideoAlign + petMajCallOutLog * ideoAlign + petNotMajOpinLog *
    ideoAlign + respUnnamedCiteLog * ideoAlign + respMajCallOutLog *
    ideoAlign + respNotMajOpinLog * ideoAlign + (1 | issueArea) +      (1 | term) + (1 | justice)
   Data: model2dataCos

     AIC      BIC   logLik deviance df.resid
 15303.8  15540.8  -7619.9  15239.8    12130

Scaled residuals:
    Min      1Q  Median      3Q     Max
-2.9626 -0.9572  0.5239  0.7793  2.7475

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.05953  0.2440
 justice   (Intercept) 0.01883  0.1372
 issueArea (Intercept) 0.02716  0.1648
Number of obs: 12162, groups:  term, 32; justice, 19; issueArea, 12

Fixed effects:
                             Estimate Std. Error z value Pr(>|z|)
(Intercept)                 1.2103878  0.2290590   5.284 1.26e-07 ***
petUnnamedCiteLog           0.2410880  0.0317367   7.597 3.04e-14 ***
petMajCallOutLog            0.0548409  0.1620395   0.338 0.735030
petNotMajOpinLog            0.1224011  0.0544462   2.248 0.024569 *
respUnnamedCiteLog          -0.1335307  0.0316837  -4.214 2.50e-05 ***
respMajCallOutLog           -0.0129594  0.1433934  -0.090 0.927988
```

```
respNotMajOpinLog            -0.0670614  0.0530956  -1.263 0.206578
ideoAlign                     0.1018882  0.0133139   7.653 1.97e-14 ***
pastExpertise                -0.0004465  0.0006221  -0.718 0.473003
logPetNumCites               -0.1085936  0.0383390  -2.832 0.004619 **
logRespNumCites              -0.0916766  0.0397811  -2.305 0.021193 *
petExperienceAdvantage        0.0003549  0.0004801   0.739 0.459680
sgParty                       0.5747099  0.0350962  16.375  < 2e-16 ***
lcDisagreement               -0.0474331  0.0445819  -1.064 0.287350
amiciNet                      0.0205857  0.0039243   5.246 1.56e-07 ***
helpOSG                       0.5783654  0.0465409  12.427  < 2e-16 ***
netStatus                    -0.0044937  0.0046719  -0.962 0.336119
oaQuestDiff                  -0.0120805  0.0009069 -13.320  < 2e-16 ***
petReadability                0.1102323  0.0327145   3.370 0.000753 ***
respReadability              -0.0249298  0.0315051  -0.791 0.428773
petRespCosineSim              0.1045137  0.2309110   0.453 0.650826
petAmicusCosine               0.4693891  0.2118756   2.215 0.026733 *
respAmicusCosine             -0.7963605  0.2064954  -3.857 0.000115 ***
petUnnamedCiteLog:ideoAlign  -0.0149457  0.0135654  -1.102 0.270569
petMajCallOutLog:ideoAlign   -0.1554887  0.0766563  -2.028 0.042521 *
petNotMajOpinLog:ideoAlign    0.0068442  0.0248330   0.276 0.782849
respUnnamedCiteLog:ideoAlign  0.0068783  0.0132209   0.520 0.602881
respMajCallOutLog:ideoAlign   0.0756479  0.0726947   1.041 0.298050
respNotMajOpinLog:ideoAlign  -0.0219237  0.0244390  -0.897 0.369678
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 29 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.00469566 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2amicusCosine2015)
glmer(formula = voteWithPet ~ petUnnamedCiteLog + petMajCallOutLog +
    petNotMajOpinLog + respUnnamedCiteLog + respMajCallOutLog +
    respNotMajOpinLog + ideoAlign + pastExpertise + logPetNumCites +
    logRespNumCites + petExperienceAdvantage + sgParty + lcDisagreement +
    amiciNet + helpOSG + netStatus + oaQuestDiff + petReadability +
    respReadability + petRespCosineSim + petAmicusCosine + respAmicusCosine +
    petUnnamedCiteLog * ideoAlign + petMajCallOutLog * ideoAlign +
    petNotMajOpinLog * ideoAlign + respUnnamedCiteLog * ideoAlign +
    respMajCallOutLog * ideoAlign + respNotMajOpinLog * ideoAlign +
    (1 | issueArea) + (1 | term) + (1 | justice), data = model2dataCos,
    family = binomial(link = logit))
                            coef.est coef.se
(Intercept)                  1.21     0.23
petUnnamedCiteLog            0.24     0.03
petMajCallOutLog             0.05     0.16
petNotMajOpinLog             0.12     0.05
respUnnamedCiteLog          -0.13     0.03
respMajCallOutLog           -0.01     0.14
respNotMajOpinLog           -0.07     0.05
ideoAlign                    0.10     0.01
pastExpertise                0.00     0.00
logPetNumCites              -0.11     0.04
```

```
logRespNumCites              -0.09     0.04
petExperienceAdvantage        0.00     0.00
sgParty                       0.57     0.04
lcDisagreement               -0.05     0.04
amiciNet                      0.02     0.00
helpOSG                       0.58     0.05
netStatus                     0.00     0.00
oaQuestDiff                  -0.01     0.00
petReadability                0.11     0.03
respReadability              -0.02     0.03
petRespCosineSim              0.10     0.23
petAmicusCosine               0.47     0.21
respAmicusCosine             -0.80     0.21
petUnnamedCiteLog:ideoAlign  -0.01     0.01
petMajCallOutLog:ideoAlign   -0.16     0.08
petNotMajOpinLog:ideoAlign    0.01     0.02
respUnnamedCiteLog:ideoAlign  0.01     0.01
respMajCallOutLog:ideoAlign   0.08     0.07
respNotMajOpinLog:ideoAlign  -0.02     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.24
 justice   (Intercept) 0.14
 issueArea (Intercept) 0.16
 Residual              1.00
---
number of obs: 12162, groups: term, 32; justice, 19; issueArea, 12
AIC = 15303.8, DIC = 14961.4
deviance = 15100.6
>
> ####################################
> ### STEP 7C: WRITE OUT THE TABLE ###
> ####################################
>
> stargazer(model2logCites, model2full2015, model2readability2015, model2amicusCosine2015, align =
TRUE, omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 21:03:58
% Requires LaTeX packages: dcolumn
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} D{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
 & \multicolumn{4}{c}{\textit{Dependent variable:}} \\
\cline{2-5}
\\[-1.8ex] & \multicolumn{4}{c}{voteWithPet} \\
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)} & \multicolumn{1}{c}{(3)} &
\multicolumn{1}{c}{(4)}\\
\hline \\[-1.8ex]
 petUnnamedCiteLog & 0.200^{***} & 0.214^{***} & 0.217^{***} & 0.241^{***} \\
  & (0.024) & (0.024) & (0.024) & (0.032) \\
  & & & & \\
 petMajCallOutLog & -0.078 & 0.054 & 0.048 & 0.055 \\
```

```
 & (0.136) & (0.134) & (0.134) & (0.162) \\
 & & & & \\
petNotMajOpinLog & 0.176^{***} & 0.136^{***} & 0.135^{***} & 0.122^{**} \\
 & (0.046) & (0.045) & (0.045) & (0.054) \\
 & & & & \\
respUnnamedCiteLog & -0.150^{***} & -0.164^{***} & -0.163^{***} & -0.134^{***} \\
 & (0.024) & (0.024) & (0.024) & (0.032) \\
 & & & & \\
respMajCallOutLog & 0.033 & 0.032 & 0.036 & -0.013 \\
 & (0.128) & (0.119) & (0.119) & (0.143) \\
 & & & & \\
respNotMajOpinLog & -0.032 & -0.033 & -0.032 & -0.067 \\
 & (0.045) & (0.044) & (0.044) & (0.053) \\
 & & & & \\
ideoAlign & 0.079^{***} & 0.078^{***} & 0.078^{***} & 0.102^{***} \\
 & (0.010) & (0.010) & (0.010) & (0.013) \\
 & & & & \\
pastExpertise & 0.001 & 0.0003 & 0.0005 & -0.0004 \\
 & (0.001) & (0.001) & (0.001) & (0.001) \\
 & & & & \\
logPetNumCites & 0.036 & -0.015 & -0.020 & -0.109^{***} \\
 & (0.026) & (0.026) & (0.026) & (0.038) \\
 & & & & \\
logRespNumCites & -0.122^{***} & -0.138^{***} & -0.136^{***} & -0.092^{**} \\
 & (0.027) & (0.027) & (0.027) & (0.040) \\
 & & & & \\
petExperienceAdvantage & 0.0005 & 0.001 & 0.001^{*} & 0.0004 \\
 & (0.0004) & (0.0004) & (0.0004) & (0.0005) \\
 & & & & \\
sgParty & 0.590^{***} & 0.572^{***} & 0.571^{***} & 0.575^{***} \\
 & (0.028) & (0.027) & (0.028) & (0.035) \\
 & & & & \\
lcDisagreement & 0.019 & 0.045 & 0.040 & -0.047 \\
 & (0.034) & (0.034) & (0.034) & (0.045) \\
 & & & & \\
amiciNet & 0.047^{***} & 0.030^{***} & 0.032^{***} & 0.021^{***} \\
 & (0.004) & (0.004) & (0.004) & (0.004) \\
 & & & & \\
helpOSG & 0.674^{***} & 0.581^{***} & 0.581^{***} & 0.578^{***} \\
 & (0.042) & (0.043) & (0.043) & (0.047) \\
 & & & & \\
netStatus & -0.004 & 0.007^{*} & 0.007^{*} & -0.004 \\
 & (0.004) & (0.004) & (0.004) & (0.005) \\
 & & & & \\
oaQuestDiff & -0.016^{***} & -0.015^{***} & -0.015^{***} & -0.012^{***} \\
 & (0.001) & (0.001) & (0.001) & (0.001) \\
 & & & & \\
petReadability &  &  & 0.093^{***} & 0.110^{***} \\
 &  &  & (0.022) & (0.033) \\
 & & & & \\
respReadability &  &  & -0.023 & -0.025 \\
 &  &  & (0.021) & (0.032) \\
 & & & & \\
petRespCosineSim &  &  & -0.265^{*} & 0.105 \\
 &  &  & (0.154) & (0.231) \\
 & & & & \\
petAmicusCosine &  &  &  & 0.469^{**} \\
 &  &  &  & (0.212) \\
```

```
  & & & & \\
 respAmicusCosine &  &  &  & -0.796^{***} \\
  &  &  &  & (0.206) \\
  & & & & \\
 petUnnamedCiteLog:ideoAlign & 0.024^{**} & 0.007 & 0.007 & -0.015 \\
  & (0.010) & (0.010) & (0.010) & (0.014) \\
  & & & & \\
 petMajCallOutLog:ideoAlign & -0.120^{*} & -0.119^{*} & -0.121^{*} & -0.155^{**} \\
  & (0.064) & (0.064) & (0.064) & (0.077) \\
  & & & & \\
 petNotMajOpinLog:ideoAlign & -0.017 & -0.007 & -0.006 & 0.007 \\
  & (0.020) & (0.020) & (0.020) & (0.025) \\
  & & & & \\
 respUnnamedCiteLog:ideoAlign & -0.026^{***} & -0.008 & -0.007 & 0.007 \\
  & (0.010) & (0.010) & (0.010) & (0.013) \\
  & & & & \\
 respMajCallOutLog:ideoAlign & 0.012 & 0.018 & 0.016 & 0.076 \\
  & (0.064) & (0.060) & (0.060) & (0.073) \\
  & & & & \\
 respNotMajOpinLog:ideoAlign & 0.013 & -0.002 & -0.003 & -0.022 \\
  & (0.020) & (0.020) & (0.020) & (0.024) \\
  & & & & \\
 Constant & 0.593^{***} & 0.818^{***} & 1.025^{***} & 1.210^{***} \\
  & (0.124) & (0.124) & (0.165) & (0.229) \\
  & & & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,206} & \multicolumn{1}{c}{21,206} &
\multicolumn{1}{c}{12,162} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,122.320} & \multicolumn{1}{c}{26,723.670} & \multicolumn{1}
{c}{26,707.370} & \multicolumn{1}{c}{15,303.820} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,337.880} & \multicolumn{1}{c}{26,938.640} &
\multicolumn{1}{c}{26,946.230} & \multicolumn{1}{c}{15,540.810} \\
\hline
\hline \\[-1.8ex]
\textit{Note:}  & \multicolumn{4}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
> 
> ##########################################
> ### STEP 8: VARIABLE BREAKDOWN FOR TABLE ###
> ##########################################
> 
> # Table B6 in Supplemental Appendix
> 
> summary(model2data$voteWithPet)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max. 
 0.0000  0.0000  1.0000  0.5929  1.0000  1.0000 
> summary(model2data$petUnnamedCiteLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max. 
 0.0000  0.0000  0.0000  0.6918  1.0986  5.3230 
> summary(model2data$petMajCallOutLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max. 
0.00000 0.00000 0.00000 0.01439 0.00000 1.94591 
> summary(model2data$petNotMajOpinLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max. 
 0.0000  0.0000  0.0000  0.1238  0.0000  3.7377 
> summary(model2data$respUnnamedCiteLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
```

```
 0.0000  0.0000  0.6931  0.7426  1.3863  4.8598
> summary(model2data$respMajCallOutLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
0.00000 0.00000 0.00000 0.01558 0.00000 2.19722
> summary(model2data$respNotMajOpinLog)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.0000  0.0000  0.0000  0.1246  0.0000  3.0910
>
> summary(model2data$ideoAlign)
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
-4.47600 -1.57900  0.07700  0.02567  1.61400  4.47600
> summary(model2data$pastExpertise)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   0.00   13.00   38.00   57.26   85.00  337.00
> summary(model2data$logPetNumCites)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.6931  3.5264  4.0254  3.9203  4.4427  5.9865
> summary(model2data$logRespNumCites)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.6931  3.6109  4.0775  3.9916  4.5109  5.8289
>
> summary(model2data$petExperienceAdvantage)
     Min.   1st Qu.    Median      Mean   3rd Qu.      Max.
-214.0000   -5.0000    0.0000    0.2573    5.0000  207.0000
> summary(model2data$sgParty)
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
-1.00000  0.00000  0.00000  0.02709  0.00000  1.00000
> summary(model2data$lcDisagreement)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.0000  0.0000  0.0000  0.2744  1.0000  1.0000
>
> summary(model2data$amiciNet)
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
-56.0000  -1.0000   0.0000   0.2742   2.0000  38.0000
> summary(model2data$helpOSG)
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
-1.00000  0.00000  0.00000  0.02913  0.00000  1.00000
> summary(model2data$netStatus)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
-8.0000 -6.0000  0.0000 -0.1171  6.0000  9.0000
> summary(model2data$oaQuestDiff)
     Min.   1st Qu.    Median      Mean   3rd Qu.      Max.
-148.0000  -13.0000    1.0000    0.2626   14.0000  126.0000
>
> ########################
> ### STEP 9: MATCHING ###
> ########################
>
> # Table B8 in the supplemental appendix
>
> # create simplified variables
> model2data$petUnnamedPeriod <- ifelse(model2data$petUnnamedCiteCount >= 1, 1, 0)
> model2data$petMajCallOutPeriod <- ifelse(model2data$petMajCallOutCount >= 1, 1, 0)
> model2data$petNotMajOpinPeriod <- ifelse(model2data$petNotMajOpinCount >= 1, 1, 0)
> model2data$petCitePeriod <- ifelse(model2data$petUnnamedPeriod == 1, 1,
+   ifelse(model2data$petMajCallOutPeriod == 1, 1,
+   ifelse(model2data$petNotMajOpinPeriod == 1, 1, 0)))
>
```

```
> model2data$respUnnamedPeriod <- ifelse(model2data$respUnnamedCiteCount >= 1, 1, 0)
> model2data$respMajCallOutPeriod <- ifelse(model2data$respMajCallOutCount >= 1, 1, 0)
> model2data$respNotMajOpinPeriod <- ifelse(model2data$respNotMajOpinCount >= 1, 1, 0)

> model2data$respCitePeriod <- ifelse(model2data$respUnnamedPeriod == 1, 1,
+   ifelse(model2data$respMajCallOutPeriod == 1, 1,
+   ifelse(model2data$respNotMajOpinPeriod == 1, 1, 0)))
>
> ####################################
> ### STEP 10A: MATCH ON PETITIONER ###
> ####################################
>
> # install the CEM packages
> # Code borrowed from Black and Owens (2021) - clerks (per reviewer suggestion)
> library(cem)
Loading required package: tcltk

How to use CEM? Type vignette("cem")

> library(MASS)
> library(car)
Loading required package: carData

Attaching package: ‘car’

The following objects are masked from ‘package:faraway’:

    logit, vif

The following object is masked from ‘package:dplyr’:

    recode

The following object is masked from ‘package:purrr’:

    some

The following object is masked from ‘package:arm’:

    logit

> library(lmtest)
Loading required package: zoo

Attaching package: ‘zoo’

The following objects are masked from ‘package:base’:

    as.Date, as.Date.numeric

>
> # citing is the treatment variable turn it into a factor
> model2data$petCitePeriod <- as.factor(model2data$petCitePeriod)
>
> # Put together the set for CEM
> cemData <- model2data %>% select(respCitePeriod, ideoAlign, pastExpertise, petExperienceAdvantage,
sgParty, lcDisagreement, amiciNet, helpOSG, netStatus, voteWithPet, petCitePeriod)
>
```

```
> # figure out what to drop out for the imbalance calculation
> todrop <- c("voteWithPet", "petCitePeriod")
>
> # perform CEM
> cemWeights <- cem(treatment = "petCitePeriod", data = cemData, drop = todrop)

Using 'petCitePeriod'='1' as baseline group
>
> cemData2 <- model2data %>% select(respCitePeriod, ideoAlign, pastExpertise, logPetNumCites,
logRespNumCites, petExperienceAdvantage, sgParty, lcDisagreement, amiciNet, helpOSG, netStatus,
oaQuestDiff, voteWithPet, petCitePeriod, term, issueArea, justice)
>
> # calculate the imbalance pre and post
> set.seed(19870302)
> pre <- L1.profile(group = cemData$petCitePeriod, data = cemData, drop = todrop, plot = F, M = 500)
  |=============================================================================================| 100%

> post <- L1.profile(group = cemData$petCitePeriod, data = cemData, drop = todrop, plot = F, useCP =
pre$CP, weights = cemWeights$w)
  |=============================================================================================| 100%

>
> pre$medianL1
[1] 0.5343468
> # 0.5343468
>
> post$medianL1
[1] 0.1234304
> # 0.12344304
>
> (pre$medianL1-post$medianL1)/pre$medianL1
[1] 0.769007
> # 0.769007
>
> ################################
> ### STEP 10B: RUN THE MODELS ###
> ################################
>
> # do some cleaning
> cemData2$issueArea <- as.factor(cemData2$issueArea)
> cemData2$justice <- as.factor(cemData2$justice)
> cemData2$term <- as.factor(cemData2$term)
>
> # run the models
>
> ### TABLE B8, COLUMN 1 ###
>
> model2NoCEM <- glmer(voteWithPet ~ petCitePeriod
+                           + respCitePeriod
+                           + ideoAlign
+                           + pastExpertise
+                           + logPetNumCites
+                           + logRespNumCites
+                           + petExperienceAdvantage
+                           + sgParty
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
```

```
+                           + netStatus
+                           + oaQuestDiff
+                           + petCitePeriod * ideoAlign
+                           + respCitePeriod * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = cemData2,
+                           family = binomial(link = logit),
+                           glmerControl(optimizer = "Nelder_Mead"))
Warning message:
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2NoCEM)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petCitePeriod + respCitePeriod + ideoAlign + pastExpertise +
    logPetNumCites + logRespNumCites + petExperienceAdvantage +
    sgParty + lcDisagreement + amiciNet + helpOSG + netStatus +
    oaQuestDiff + petCitePeriod * ideoAlign + respCitePeriod *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: cemData2
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
 27169.0  27320.7 -13565.5  27131.0    21646

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.5956 -0.9671  0.5241  0.7882  4.3446

Random effects:
 Groups    Name        Variance Std.Dev.
 term      (Intercept) 0.03125  0.1768
 justice   (Intercept) 0.02965  0.1722
 issueArea (Intercept) 0.02267  0.1506
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                           Estimate Std. Error z value Pr(>|z|)
(Intercept)                0.5458034  0.1214891   4.493 7.04e-06 ***
petCitePeriod1             0.2150117  0.0357469   6.015 1.80e-09 ***
respCitePeriod            -0.1261499  0.0360238  -3.502 0.000462 ***
ideoAlign                  0.0807892  0.0116472   6.936 4.02e-12 ***
pastExpertise              0.0006092  0.0005183   1.175 0.239844
logPetNumCites             0.0877458  0.0251104   3.494 0.000475 ***
logRespNumCites           -0.1597200  0.0253618  -6.298 3.02e-10 ***
petExperienceAdvantage     0.0004986  0.0003530   1.413 0.157764
sgParty                    0.5878566  0.0275811  21.314  < 2e-16 ***
lcDisagreement             0.0185779  0.0337912   0.550 0.582467
amiciNet                   0.0467522  0.0040525  11.536  < 2e-16 ***
helpOSG                    0.6723257  0.0417133  16.118  < 2e-16 ***
netStatus                 -0.0036137  0.0035584  -1.016 0.309852
oaQuestDiff               -0.0163884  0.0006760 -24.242  < 2e-16 ***
petCitePeriod1:ideoAlign   0.0007511  0.0150891   0.050 0.960301
respCitePeriod:ideoAlign  -0.0131247  0.0152572  -0.860 0.389661
```

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

Correlation matrix not shown by default, as p = 16 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2NoCEM)
glmer(formula = voteWithPet ~ petCitePeriod + respCitePeriod +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petCitePeriod * ideoAlign +
    respCitePeriod * ideoAlign + (1 | issueArea) + (1 | term) +
    (1 | justice), data = cemData2, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"))
                        coef.est coef.se
(Intercept)              0.55     0.12
petCitePeriod1           0.22     0.04
respCitePeriod          -0.13     0.04
ideoAlign                0.08     0.01
pastExpertise            0.00     0.00
logPetNumCites           0.09     0.03
logRespNumCites         -0.16     0.03
petExperienceAdvantage   0.00     0.00
sgParty                  0.59     0.03
lcDisagreement           0.02     0.03
amiciNet                 0.05     0.00
helpOSG                  0.67     0.04
netStatus                0.00     0.00
oaQuestDiff             -0.02     0.00
petCitePeriod1:ideoAlign  0.00     0.02
respCitePeriod:ideoAlign -0.01     0.02

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.18
 justice   (Intercept) 0.17
 issueArea (Intercept) 0.15
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 27169, DIC = 26800.7
deviance = 26965.9
>
> ### TABLE B8, COLUMN 2 ###
>
> model2CEM <- glmer(voteWithPet ~ petCitePeriod
+                            + respCitePeriod
+                            + ideoAlign
+                            + pastExpertise
+                            + logPetNumCites
+                            + logRespNumCites
+                            + petExperienceAdvantage
+                            + sgParty
```

```
+                           + lcDisagreement
+                           + amiciNet
+                           + helpOSG
+                           + netStatus
+                           + oaQuestDiff
+                           + petCitePeriod * ideoAlign
+                           + respCitePeriod * ideoAlign
+                           + (1 | issueArea)
+                           + (1 | term)
+                           + (1 | justice),
+                           data = cemData2,
+                           family = binomial(link = logit),
+                           weights = cemWeights$w,
+                           glmerControl(optimizer = "Nelder_Mead"))
Warning messages:
1: In eval(family$initialize, rho) :
  non-integer #successes in a binomial glm!
2: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model failed to converge with max|grad| = 0.461782 (tol = 0.002, component 1)
3: In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv,  :
  Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?
>
> summary(model2CEM)
Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: voteWithPet ~ petCitePeriod + respCitePeriod + ideoAlign + pastExpertise +
    logPetNumCites + logRespNumCites + petExperienceAdvantage +
    sgParty + lcDisagreement + amiciNet + helpOSG + netStatus +
    oaQuestDiff + petCitePeriod * ideoAlign + respCitePeriod *
    ideoAlign + (1 | issueArea) + (1 | term) + (1 | justice)
   Data: cemData2
Weights: cemWeights$w
Control: glmerControl(optimizer = "Nelder_Mead")

     AIC      BIC   logLik deviance df.resid
  6643.3   6795.0  -3302.7   6605.3    21646

Scaled residuals:
   Min     1Q Median     3Q    Max
-5.836  0.000  0.000  0.000  3.502

Random effects:
 Groups    Name        Variance  Std.Dev.
 term      (Intercept) 7.599e-02 0.275672
 justice   (Intercept) 5.287e-02 0.229930
 issueArea (Intercept) 1.655e-05 0.004069
Number of obs: 21665, groups:  term, 35; justice, 21; issueArea, 12

Fixed effects:
                          Estimate Std. Error z value Pr(>|z|)
(Intercept)               0.1442123  0.2108280   0.684 0.493957
petCitePeriod1            0.2225293  0.0633998   3.510 0.000448 ***
respCitePeriod           -0.1204718  0.0700545  -1.720 0.085489 .
ideoAlign                 0.1736480  0.0320055   5.426 5.78e-08 ***
pastExpertise             0.0018102  0.0006524   2.775 0.005526 **
logPetNumCites            0.0763166  0.0474272   1.609 0.107588
logRespNumCites          -0.0418837  0.0510741  -0.820 0.412183
```

```
petExperienceAdvantage    0.0001003  0.0011953   0.084 0.933101
sgParty                   0.6976171  0.0697496  10.002  < 2e-16 ***
lcDisagreement            0.0074495  0.0798831   0.093 0.925701
amiciNet                  0.0965067  0.0137437   7.022 2.19e-12 ***
helpOSG                   0.9453915  0.1402119   6.743 1.56e-11 ***
netStatus                -0.0002706  0.0071575  -0.038 0.969844
oaQuestDiff              -0.0151837  0.0013863 -10.952  < 2e-16 ***
petCitePeriod1:ideoAlign -0.0713169  0.0308980  -2.308 0.020991 *
respCitePeriod:ideoAlign -0.0615483  0.0338927  -1.816 0.069374 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Correlation matrix not shown by default, as p = 16 > 12.
Use print(x, correlation=TRUE)  or
    vcov(x)        if you need it

optimizer (Nelder_Mead) convergence code: 0 (OK)
Model failed to converge with max|grad| = 0.461782 (tol = 0.002, component 1)
Model is nearly unidentifiable: very large eigenvalue
 - Rescale variables?

> display(model2CEM)
glmer(formula = voteWithPet ~ petCitePeriod + respCitePeriod +
    ideoAlign + pastExpertise + logPetNumCites + logRespNumCites +
    petExperienceAdvantage + sgParty + lcDisagreement + amiciNet +
    helpOSG + netStatus + oaQuestDiff + petCitePeriod * ideoAlign +
    respCitePeriod * ideoAlign + (1 | issueArea) + (1 | term) +
    (1 | justice), data = cemData2, family = binomial(link = logit),
    control = glmerControl(optimizer = "Nelder_Mead"), weights = cemWeights$w)
                         coef.est coef.se
(Intercept)               0.14     0.21
petCitePeriod1            0.22     0.06
respCitePeriod           -0.12     0.07
ideoAlign                 0.17     0.03
pastExpertise             0.00     0.00
logPetNumCites            0.08     0.05
logRespNumCites          -0.04     0.05
petExperienceAdvantage    0.00     0.00
sgParty                   0.70     0.07
lcDisagreement            0.01     0.08
amiciNet                  0.10     0.01
helpOSG                   0.95     0.14
netStatus                 0.00     0.01
oaQuestDiff              -0.02     0.00
petCitePeriod1:ideoAlign -0.07     0.03
respCitePeriod:ideoAlign -0.06     0.03

Error terms:
 Groups    Name        Std.Dev.
 term      (Intercept) 0.28
 justice   (Intercept) 0.23
 issueArea (Intercept) 0.00
 Residual              1.00
---
number of obs: 21665, groups: term, 35; justice, 21; issueArea, 12
AIC = 6643.3, DIC = 7143.5
deviance = 6874.4
>
```

```
> ######################################
> ### STEP 10C: WRITE OUT THE TABLES ###
> ######################################
>
> ### TABLE B8 ###
> stargazer(model2NoCEM, model2CEM, align = TRUE, omit.stat=c("LL", "ser", "f"))

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at
gmail.com
% Date and time: Mon, Jun 16, 2025 - 21:09:26
% Requires LaTeX packages: dcolumn
\begin{table}[!htbp] \centering
  \caption{}
  \label{}
\begin{tabular}{@{\extracolsep{5pt}}lD{.}{.}{-3} D{.}{.}{-3} }
\\[-1.8ex]\hline
\hline \\[-1.8ex]
 & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
\cline{2-3}
\\[-1.8ex] & \multicolumn{2}{c}{voteWithPet} \\
\\[-1.8ex] & \multicolumn{1}{c}{(1)} & \multicolumn{1}{c}{(2)}\\
\hline \\[-1.8ex]
 petCitePeriod1 & 0.215^{***} & 0.223^{***} \\
  & (0.036) & (0.063) \\
  & & \\
 respCitePeriod & -0.126^{***} & -0.120^{*} \\
  & (0.036) & (0.070) \\
  & & \\
 ideoAlign & 0.081^{***} & 0.174^{***} \\
  & (0.012) & (0.032) \\
  & & \\
 pastExpertise & 0.001 & 0.002^{***} \\
  & (0.001) & (0.001) \\
  & & \\
 logPetNumCites & 0.088^{***} & 0.076 \\
  & (0.025) & (0.047) \\
  & & \\
 logRespNumCites & -0.160^{***} & -0.042 \\
  & (0.025) & (0.051) \\
  & & \\
 petExperienceAdvantage & 0.0005 & 0.0001 \\
  & (0.0004) & (0.001) \\
  & & \\
 sgParty & 0.588^{***} & 0.698^{***} \\
  & (0.028) & (0.070) \\
  & & \\
 lcDisagreement & 0.019 & 0.007 \\
  & (0.034) & (0.080) \\
  & & \\
 amiciNet & 0.047^{***} & 0.097^{***} \\
  & (0.004) & (0.014) \\
  & & \\
 helpOSG & 0.672^{***} & 0.945^{***} \\
  & (0.042) & (0.140) \\
  & & \\
 netStatus & -0.004 & -0.0003 \\
  & (0.004) & (0.007) \\
  & & \\
```

```
 oaQuestDiff & -0.016^{***} & -0.015^{***} \\
  & (0.001) & (0.001) \\
  & & \\
 petCitePeriod1:ideoAlign & 0.001 & -0.071^{**} \\
  & (0.015) & (0.031) \\
  & & \\
 respCitePeriod:ideoAlign & -0.013 & -0.062^{*} \\
  & (0.015) & (0.034) \\
  & & \\
 Constant & 0.546^{***} & 0.144 \\
  & (0.121) & (0.211) \\
  & & \\
\hline \\[-1.8ex]
Observations & \multicolumn{1}{c}{21,665} & \multicolumn{1}{c}{21,665} \\
Akaike Inf. Crit. & \multicolumn{1}{c}{27,168.990} & \multicolumn{1}{c}{6,643.343} \\
Bayesian Inf. Crit. & \multicolumn{1}{c}{27,320.670} & \multicolumn{1}{c}{6,795.028} \\
\hline
\hline \\[-1.8ex]
\textit{Note:}  & \multicolumn{2}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
\end{tabular}
\end{table}
>
>
>
>
>
```