Chapter 5: The original output from the R studio program

R version 4.1.0 (2021-05-18) -- "Camp Pontanezen"
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Platform: x86_64-apple-darwin17.0 (64-bit)

Chapter 5 The responsiveness of decision-makers to preferences of stakeholders in the EU legislative process

1. Load the dataset:

```
library(readxl)
data5_0 <- read_excel("Desktop/Dataset Archive/Chapter 5 Dataset/data5.0.xlsx")
View(data5_0)
# descriptive statistics Table A2
```

```
> # descriptive statistics Table A2
> summary(data5_0)
  po.position         pcom        pre.congruence   neg.interest     neg.nonstate   neg.stakeholder    hetero.sta
 Min.   :  0.0   Min.   :  0.00   Min.   :0.000   Min.   :  0.00   Min.   : 0.00   Min.   :  4.00   Min.   :-0.540
 1st Qu.: 39.0   1st Qu.: 41.00   1st Qu.:0.000   1st Qu.: 11.00   1st Qu.: 4.50   1st Qu.: 18.00   1st Qu.: 0.020
 Median : 65.0   Median :100.00   Median :1.000   Median : 19.00   Median :12.00   Median : 33.00   Median : 0.120
 Mean   : 58.9   Mean   : 69.06   Mean   :0.503   Mean   : 25.63   Mean   :16.63   Mean   : 42.22   Mean   : 0.144
 3rd Qu.: 90.0   3rd Qu.:100.00   3rd Qu.:1.000   3rd Qu.: 33.00   3rd Qu.:23.00   3rd Qu.: 53.00   3rd Qu.: 0.330
 Max.   :100.0   Max.   :100.00   Max.   :1.000   Max.   :303.00   Max.   :64.00   Max.   :365.00   Max.   : 0.560
                                                                                                    NA's   :1
    salience    salience.dt       eulegactor        actcom         actboepcou         actcou        deu.duration
 Min.   : 24   Min.   :0.0000   Min.   : 2.00   Min.   :0.0000   Min.   :0.0000   Min.   :0.0000   Min.   : 274.0
 1st Qu.: 97   1st Qu.:0.0000   1st Qu.:16.00   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.: 523.0
 Median :145   Median :0.0000   Median :17.00   Median :0.0000   Median :1.0000   Median :0.0000   Median : 703.0
 Mean   :164   Mean   :0.3593   Mean   :20.11   Mean   :0.1976   Mean   :0.6647   Mean   :0.1198   Mean   : 772.2
 3rd Qu.:224   3rd Qu.:1.0000   3rd Qu.:27.00   3rd Qu.:0.0000   3rd Qu.:1.0000   3rd Qu.:0.0000   3rd Qu.: 957.0
 Max.   :414   Max.   :1.0000   Max.   :30.00   Max.   :1.0000   Max.   :1.0000   Max.   :1.0000   Max.   :1937.0

   duration.m     contestation   leg.duration      novelty       policy.change      complexity       typeact
 Min.   : 9.00   Min.   :1.00   Min.   :0.000   Min.   :0.0000   Min.   : 0.000   Min.   :0.000   Min.   :1.000
 1st Qu.:17.00   1st Qu.:2.00   1st Qu.:0.000   1st Qu.:0.0000   1st Qu.: 2.000   1st Qu.:1.000   1st Qu.:1.000
 Median :23.00   Median :3.00   Median :1.000   Median :1.0000   Median : 4.000   Median :3.000   Median :1.000
 Mean   :25.75   Mean   :3.12   Mean   :0.521   Mean   :0.5389   Mean   : 6.006   Mean   :2.527   Mean   :1.515
 3rd Qu.:32.00   3rd Qu.:4.00   3rd Qu.:1.000   3rd Qu.:1.0000   3rd Qu.: 8.000   3rd Qu.:3.500   3rd Qu.:2.000
 Max.   :65.00   Max.   :6.00   Max.   :1.000   Max.   :1.0000   Max.   :47.000   Max.   :6.000   Max.   :3.000
```

```
> sd(data5_0$po.position)
[1] 33.35563
> sd(data5_0$pcom)
[1] 39.21392
> sd(data5_0$pre.congruence)
[1] 0.5014948
> sd(data5_0$neg.interest)
[1] 34.5317
> sd(data5_0$neg.nonstate)
[1] 15.22937
> sd(data5_0$neg.stakeholder)
[1] 43.79155
> sd(data5_0$hetero.sta)
[1] NA
> sd(data5_0$salience)
[1] 98.16583
> sd(data5_0$salience.dt)
[1] 0.4812328
> sd(data5_0$eulegactor)
[1] 7.024081
> sd(data5_0$actcom)
[1] 0.3993899
> sd(data5_0$actboepcou)
[1] 0.4735253
> sd(data5_0$actcou)
[1] 0.3256577
> sd(data5_0$deu.duration)
[1] 357.1906
> sd(data5_0$duration.m)
[1] 11.92129
> sd(data5_0$contestation)
[1] 1.260151
> sd(data5_0$leg.duration)
[1] 0.501063
> sd(data5_0$novelty)
[1] 0.499982
> sd(data5_0$policy.change)
[1] 7.025339
> sd(data5_0$complexity)
[1] 1.39627
> sd(data5_0$typeact)
[1] 0.6195246
>
```

correlation matrix Table A3

```
> # correlation matrix Table A3
> cor(data5_0, method="pearson")
                po.position        pcom pre.congruence neg.interest neg.nonstate neg.stakeholder hetero.sta     salience
po.position      1.000000000  0.09689188   -0.831336151  -0.04871367 -0.007534033     -0.04227785         NA -0.528647748
pcom             0.096891876  1.00000000   -0.120395680  -0.09262362 -0.115763390     -0.11416535         NA  0.016862169
pre.congruence  -0.831336151 -0.12039568    1.000000000   0.07085355  0.085332254      0.08719971         NA  0.641205069
neg.interest    -0.048713672 -0.09262362    0.070853546   1.00000000  0.473092326      0.95143705         NA -0.085110523
neg.nonstate    -0.007534033 -0.11576339    0.085332254   0.47309233  1.000000000      0.72110530         NA -0.022705119
neg.stakeholder -0.042277846 -0.11416535    0.087199709   0.95143705  0.721105301      1.00000000         NA -0.073336734
hetero.sta               NA          NA             NA           NA           NA              NA          1           NA
salience        -0.528647748  0.01686217    0.641205069  -0.08511052 -0.022705119     -0.07333673         NA  1.000000000
salience.dt     -0.508102848 -0.06403417    0.594591334  -0.13778380 -0.044159852     -0.12261311         NA  0.827182609
eulegactor      -0.043817299  0.15582686    0.058053177   0.15399849  0.170558876      0.17886741         NA  0.200532891
actcom           0.012371728  0.09847709   -0.048086504  -0.08515134 -0.069079288     -0.09338047         NA -0.028057350
actboepcou       0.050458859 -0.01124011    0.029621048   0.11882860  0.157220277      0.14992308         NA  0.052139884
actcou          -0.018281096 -0.11519449   -0.039094972  -0.07108302 -0.110016112     -0.09390784         NA -0.045557040
deu.duration     0.372364648  0.02069109   -0.330552260  -0.03586620 -0.191624889     -0.09439357         NA -0.185097904
duration.m       0.372265621  0.02298292   -0.328361623  -0.03080870 -0.189382515     -0.08962490         NA -0.183768296
contestation    -0.037257482  0.06178282    0.008961611  -0.25232792 -0.359906640     -0.32315906         NA  0.030886043
leg.duration     0.265230484  0.07413076   -0.186046581   0.05249536 -0.147388440     -0.00871795         NA -0.121242823
novelty         -0.114086238 -0.11472528    0.041576941  -0.16508068 -0.074831830     -0.15501188         NA  0.071810986
policy.change   -0.013545100 -0.02361741    0.036756674   0.64938326  0.253222048      0.60052465         NA  0.007337528
complexity       0.062727427  0.06796436   -0.062488534  -0.04733463 -0.127576534     -0.08265679         NA -0.014940741
typeact         -0.032429983  0.06245046   -0.004992510  -0.16151566  0.004423524     -0.12713000         NA -0.053189157
                salience.dt  eulegactor      actcom  actboepcou       actcou deu.duration    duration.m contestation
po.position     -0.50810285 -0.04381730  0.01237173  0.05045886 -0.018281096   0.37236465  0.3722656208 -0.037257482
pcom            -0.06403417  0.15582686  0.09847709 -0.01124011 -0.115194487   0.02069109  0.0229829242  0.061782821
pre.congruence   0.59459133  0.05805318 -0.04808650  0.02962105 -0.039094972  -0.33055226 -0.3283616234  0.008961611
neg.interest    -0.13778380  0.15399849 -0.08515134  0.11882860 -0.071083024  -0.03586620 -0.0308086987 -0.252327916
neg.nonstate    -0.04415985  0.17055888 -0.06907929  0.15722028 -0.110016112  -0.19162489 -0.1893825152 -0.359906640
neg.stakeholder -0.12261311  0.17886741 -0.09338047  0.14992308 -0.093907841  -0.09439357 -0.0896249008 -0.323159063
hetero.sta              NA          NA          NA          NA           NA           NA             NA           NA
salience         0.82718261  0.20053289 -0.02805735  0.05213988 -0.045557040  -0.18509790 -0.1837682962  0.030886043
salience.dt      1.00000000  0.11857247 -0.02683856  0.05603769 -0.045574720  -0.16259074 -0.1616147027 -0.071380379
eulegactor       0.11857247  1.00000000 -0.20734262  0.30253045 -0.158422818   0.02221863  0.0211167578  0.075438531
actcom          -0.02683856 -0.20734262  1.00000000 -0.69866992 -0.183046277   0.02458042  0.0256835407 -0.095181780
actboepcou       0.05603769  0.30253045 -0.69866992  1.00000000 -0.519306557   0.02476804  0.0255221421 -0.033248519
actcou          -0.04557472 -0.15842282 -0.18304628 -0.51930656  1.000000000  -0.04193756 -0.0434011031  0.111633662
deu.duration    -0.16259074  0.02221863  0.02458042  0.02476804 -0.041937560   1.00000000  0.9997164696  0.046992231
duration.m      -0.16161470  0.02111676  0.02568354  0.02552214 -0.043401103   0.99971647  1.0000000000  0.044523188
contestation    -0.07138038  0.07543853 -0.09518178 -0.03324852  0.111633662   0.04699223  0.0445231884  1.000000000
leg.duration    -0.10636469 -0.02118527 -0.06597313  0.10596749 -0.015474612   0.74632364  0.7431446017 -0.023080322
novelty          0.11678937 -0.11269831  0.12717351 -0.37709700  0.341177544  -0.00177283 -0.0003691712 -0.007442894
policy.change   -0.07191390  0.15368224 -0.26879647  0.18893517  0.002317737   0.04425738  0.0479944522 -0.083097503
complexity       0.04826256  0.15018909 -0.07982226  0.25975320 -0.232361370   0.38946665  0.3901854663  0.128256705
typeact         -0.03835491  0.07161284  0.12187822 -0.10599392 -0.008939753  -0.08889886 -0.0957352730  0.152016314
                leg.duration       novelty policy.change  complexity      typeact
po.position      0.26523048 -0.1140862383  -0.013545100  0.06272743 -0.032429983
pcom             0.07413076 -0.1147252783  -0.023617408  0.06796436  0.062450456
pre.congruence  -0.18604658  0.0415769413   0.036756674 -0.06248853 -0.004992510
neg.interest     0.05249536 -0.1650806776   0.649383259 -0.04733463 -0.161515658
neg.nonstate    -0.14738844 -0.0748318305   0.253222048 -0.12757653  0.004423524
neg.stakeholder -0.00871795 -0.1550118784   0.600524650 -0.08265679 -0.127129996
hetero.sta              NA           NA            NA          NA           NA
salience        -0.12124282  0.0718109858   0.007337528 -0.01494074 -0.053189157
salience.dt     -0.10636469  0.1167893729  -0.071913898  0.04826256 -0.038354907
eulegactor      -0.02118527 -0.1126983110   0.153682243  0.15018909  0.071612838
actcom          -0.06597313  0.1271735143  -0.268796474 -0.07982226  0.121878218
actboepcou       0.10596749 -0.3770970049   0.188935168  0.25975320 -0.105993919
actcou          -0.01547461  0.3411775438   0.002317737 -0.23236137 -0.008939753
deu.duration     0.74632364 -0.0017728305   0.044257380  0.38946665 -0.088898863
duration.m       0.74314460 -0.0003691712   0.047994452  0.39018547 -0.095735273
contestation    -0.02308032 -0.0074428943  -0.083097503  0.12825670  0.152016314
leg.duration     1.00000000 -0.1896332717   0.115478519  0.30270924 -0.054383909
novelty         -0.18963327  1.0000000000  -0.117545923 -0.08133104  0.090486458
policy.change    0.11547852 -0.1175459229   1.000000000 -0.02243203 -0.271995515
complexity       0.30270924 -0.0813310412  -0.022432026  1.00000000 -0.176312209
typeact         -0.05438391  0.0904864578  -0.271995515 -0.17631221  1.000000000
>
```

#Table5.1 Multilevel OLS regression

#Model 1: DV:output score of decision-making; main IDV: interest groups: H1

```
> model1<-lm(po.position~neg.interest+salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change
+complexity, data=data5_0)
> summary(model1)

Call:
lm(formula = po.position ~ neg.interest + salience + eulegactor +
    actcom + actboepcou + actcou + contestation + duration.m +
    novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-66.272 -14.136   4.831  17.534  75.143

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   35.76470   19.26925   1.856   0.0653 .
neg.interest  -0.16630    0.08413  -1.977   0.0499 *
salience      -0.16840    0.02223  -7.576 3.02e-12 ***
eulegactor     0.26380    0.32094   0.822   0.4124
actcom        37.94096   16.90399   2.244   0.0262 *
actboepcou    38.92449   16.45016   2.366   0.0192 *
actcou        34.92262   16.69471   2.092   0.0381 *
contestation  -1.04797    1.76962  -0.592   0.5546
duration.m     0.84721    0.19377   4.372 2.25e-05 ***
novelty       -4.36860    4.63822  -0.942   0.3477
policy.change  0.39116    0.41225   0.949   0.3442
complexity    -2.52656    1.71218  -1.476   0.1421
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 26.53 on 155 degrees of freedom
Multiple R-squared:  0.4091,    Adjusted R-squared:  0.3672
F-statistic: 9.757 on 11 and 155 DF,  p-value: 2.702e-13
```

#Model 2: DV: position score of European Commission; main IDV: non-state groups: H2

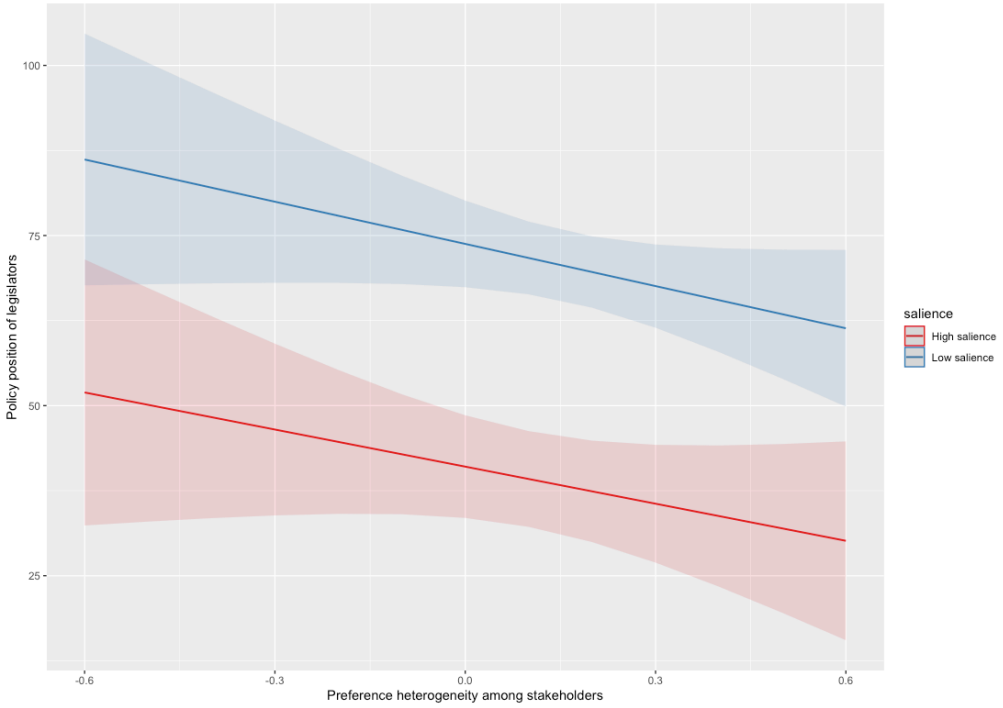
```
> model2<-lm(pcom~neg.nonstate+salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change+comple
xity, data=data5_0)
> summary(model2)

Call:
lm(formula = pcom ~ neg.nonstate + salience + eulegactor + actcom +
    actboepcou + actcou + contestation + duration.m + novelty +
    policy.change + complexity, data = data5_0)

Residuals:
   Min     1Q Median     3Q    Max
-88.50 -31.32  13.91  29.39  52.08

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   71.72576   28.53212   2.514   0.0130 *
neg.nonstate  -0.38421    0.23066  -1.666   0.0978 .
salience      -0.00800    0.03239  -0.247   0.8052
eulegactor     1.09847    0.47397   2.318   0.0218 *
actcom        -0.73078   24.77156  -0.030   0.9765
actboepcou   -15.10652   24.19958  -0.624   0.5334
actcou       -18.31237   24.48631  -0.748   0.4557
contestation   0.02446    2.66683   0.009   0.9927
duration.m    -0.09109    0.28789  -0.316   0.7521
novelty       -9.01891    6.76675  -1.333   0.1845
policy.change  0.03063    0.47328   0.065   0.9485
complexity     0.89887    2.51613   0.357   0.7214
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 38.9 on 155 degrees of freedom
Multiple R-squared:  0.08108,   Adjusted R-squared:  0.01587
F-statistic: 1.243 on 11 and 155 DF,  p-value: 0.263
```

#Model 3: Interaction between Preference heterogeneity among stakeholders and salience H3

```
> model3<-lm(po.position~hetero.sta*salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change+complexity, data=data5_0)
> summary(model3)

Call:
lm(formula = po.position ~ hetero.sta * salience + eulegactor + 
    actcom + actboepcou + actcou + contestation + duration.m + 
    novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max 
-69.517 -14.591   3.151  16.956  53.043 

Coefficients:
                   Estimate Std. Error t value Pr(>|t|)    
(Intercept)         36.82227   18.91382   1.947   0.0534 .  
hetero.sta         -11.88410   18.31030  -0.649   0.5173    
salience            -0.16786    0.02241  -7.492 5.07e-12 ***
eulegactor           0.22269    0.31240   0.713   0.4770    
actcom              34.40907   16.53018   2.082   0.0390 *  
actboepcou          34.50277   16.13641   2.138   0.0341 *  
actcou              28.98334   16.41213   1.766   0.0794 .  
contestation        -0.12743    1.70592  -0.075   0.9405    
duration.m           0.95775    0.19323   4.956 1.88e-06 ***
novelty             -2.56840    4.52886  -0.567   0.5715    
policy.change       -0.19215    0.30881  -0.622   0.5347    
complexity          -2.53865    1.67779  -1.513   0.1323    
hetero.sta:salience -0.07166    0.08651  -0.828   0.4088    
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 25.99 on 153 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.4296,    Adjusted R-squared:  0.3849 
F-statistic: 9.604 on 12 and 153 DF,  p-value: 9.359e-14
```

#Model 3: Figure 5.4
#pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)
#png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)

```
> #Model 3: Figure 5.4
> #pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)
> #png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)
> par(mfrow=c(1,1))
> library(car)
Loading required package: carData
Warning message:
package ‘carData’ was built under R version 4.1.2
> data5_0$salience_recoded<-recode(data5_0$salience.dt, '0="Low salience"; 1="High salience"')
> m3<-lm(po.position~hetero.sta*salience_recoded+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change+complexity, data=data5_0)
> cbind(round(coef(m3),3),paste0("(",round(summary(m3)$coefficients[,2],3), ")"),round(summary(m3)$coefficients[,4],3))
                                      [,1]      [,2]       [,3]
(Intercept)                           "-4.313"  "(19.443)" "0.825"
hetero.sta                            "-18.167" "(13.198)" "0.171"
salience_recodedLow salience          "32.735"  "(5.054)"  "0"
eulegactor                            "-0.001"  "(0.317)"  "0.998"
actcom                                "31.452"  "(17.132)" "0.068"
actboepcou                            "33.93"   "(16.756)" "0.045"
actcou                                "29.137"  "(16.977)" "0.088"
contestation                          "-1.525"  "(1.755)"  "0.386"
duration.m                            "0.974"   "(0.199)"  "0"
novelty                               "-1.997"  "(4.692)"  "0.671"
policy.change                         "-0.367"  "(0.319)"  "0.252"
complexity                            "-1.568"  "(1.735)"  "0.367"
hetero.sta:salience_recodedLow salience "-2.503"  "(17.615)" "0.887"
> plot_model(m3, type ="int",axis.title="Policy position of legislators",legend.title ="salience", title="")+labs(x="Preference heterogeneity among stakeholders")
```



#Model 4: include all explanatory variables

```
> model4<-lm(po.position~neg.interest+neg.nonstate+hetero.sta*salience+eulegactor+actcom+actboepcou+actcou+contestation+duratio
n.m+novelty+policy.change+complexity, data=data5_0)
> summary(model4)

Call:
lm(formula = po.position ~ neg.interest + neg.nonstate + hetero.sta *
    salience + eulegactor + actcom + actboepcou + actcou + contestation +
    duration.m + novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-68.029 -13.028   1.342  17.298  58.675

Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
(Intercept)        37.25982   19.15946   1.945   0.0537 .
neg.interest       -0.16230    0.08878  -1.828   0.0695 .
neg.nonstate        0.09676    0.17377   0.557   0.5785
hetero.sta         -6.71893   19.05578  -0.353   0.7249
salience           -0.17100    0.02268  -7.538 4.09e-12 ***
eulegactor          0.26764    0.31745   0.843   0.4005
actcom             36.54790   16.52693   2.211   0.0285 *
actboepcou         35.24281   16.12027   2.186   0.0303 *
actcou             30.26336   16.36135   1.850   0.0663 .
contestation       -0.65812    1.79568  -0.367   0.7145
duration.m          0.92968    0.19458   4.778 4.16e-06 ***
novelty            -3.53234    4.54028  -0.778   0.4378
policy.change       0.28247    0.40528   0.697   0.4869
complexity         -2.44413    1.67682  -1.458   0.1470
hetero.sta:salience -0.08623    0.08769  -0.983   0.3270
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 25.88 on 151 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.4421,    Adjusted R-squared:  0.3903
F-statistic: 8.545 on 14 and 151 DF,  p-value: 2.055e-13
```

#TableA4 Models of bivariate relationships between explanatory variables without controls

#Model A

```
> modela<-lm(po.position~neg.interest+neg.nonstate+hetero.sta, data=data5_0)
> summary(modela)

Call:
lm(formula = po.position ~ neg.interest + neg.nonstate + hetero.sta,
    data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-62.586 -19.718   6.116  29.836  44.133

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  59.48495    4.52390  13.149   <2e-16 ***
neg.interest -0.05980    0.08599  -0.695    0.488
neg.nonstate  0.09353    0.20489   0.456    0.649
hetero.sta   -1.69027   11.12445  -0.152    0.879
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 33.38 on 162 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.003616,  Adjusted R-squared:  -0.01484
F-statistic: 0.196 on 3 and 162 DF,  p-value: 0.899
```

#Model B

```
> modelb<-lm(pcom~neg.interest+neg.nonstate+hetero.sta, data=data5_0)
> summary(modelb)

Call:
lm(formula = pcom ~ neg.interest + neg.nonstate + hetero.sta,
    data = data5_0)

Residuals:
   Min     1Q Median     3Q    Max
-74.54 -25.82  25.55  29.80  43.39

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   75.6411     5.3185  14.222   <2e-16 ***
neg.interest  -0.0474     0.1011  -0.469    0.640
neg.nonstate  -0.3014     0.2409  -1.251    0.213
hetero.sta    -4.2141    13.0784  -0.322    0.748
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 39.25 on 162 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.01872,   Adjusted R-squared:  0.0005495
F-statistic:  1.03 on 3 and 162 DF,  p-value: 0.3808
```

#Model C

```
> modelc<-lm(po.position~neg.interest+neg.nonstate+hetero.sta*salience, data=data5_0)
> summary(modelc)

Call:
lm(formula = po.position ~ neg.interest + neg.nonstate + hetero.sta *
    salience, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-70.343 -13.426   3.546  18.758  73.033

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)         92.09451    6.04373  15.238  < 2e-16 ***
neg.interest        -0.10442    0.07237  -1.443    0.151
neg.nonstate         0.07989    0.17529   0.456    0.649
hetero.sta           3.49227   20.24860   0.172    0.863
salience            -0.18269    0.02338  -7.813 6.97e-13 ***
hetero.sta:salience -0.10655    0.09426  -1.130    0.260
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 27.89 on 160 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.3131,    Adjusted R-squared:  0.2916
F-statistic: 14.59 on 5 and 160 DF,  p-value: 8.991e-12
```

#TableA5 Additional Logistic regression models (DV is preference congruence)
#TableA5 Model 1 all EU decision-makers

```
> modelA1<-glm(pre.congruence~neg.interest+salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.c
hange+complexity, family = "binomial")
Error in eval(predvars, data, env) : object 'pre.congruence' not found
> summary(modelA1)

Call:
glm(formula = pre.congruence ~ neg.interest + neg.nonstate +
    salience + eulegactor + actcom + actboepcou + actcou + contestation +
    leg.duration + novelty + policy.change + complexity, family = "binomial")

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.7226  -0.5246   0.0003   0.5526   1.7585

Coefficients:
                Estimate Std. Error z value Pr(>|z|)
(Intercept)    1.251e+01  1.364e+03   0.009   0.9927
neg.interest   2.445e-02  1.257e-02   1.945   0.0518 .
neg.nonstate   3.408e-03  1.755e-02   0.194   0.8461
salience       3.012e-02  4.947e-03   6.088 1.15e-09 ***
eulegactor    -5.954e-02  3.782e-02  -1.574   0.1154
actcom        -1.614e+01  1.364e+03  -0.012   0.9906
actboepcou    -1.571e+01  1.364e+03  -0.012   0.9908
actcou        -1.539e+01  1.364e+03  -0.011   0.9910
contestation   1.440e-01  2.222e-01   0.648   0.5169
leg.duration  -9.929e-01  5.308e-01  -1.871   0.0614 .
novelty       -4.388e-01  5.470e-01  -0.802   0.4225
policy.change -7.695e-02  5.019e-02  -1.533   0.1252
complexity     1.437e-03  1.729e-01   0.008   0.9934
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 231.51  on 166  degrees of freedom
Residual deviance: 122.16  on 154  degrees of freedom
AIC: 148.16

Number of Fisher Scoring iterations: 15
```

```
> cbind(round(coef(modelA1),3),paste0("(",round(summary(modelA1)$coefficients[,2],3), ")"),round(summary(modelA1)$coefficients[,
4],3))
              [,1]      [,2]         [,3]
(Intercept)   "12.508"  "(1363.705)" "0.993"
neg.interest  "0.024"   "(0.013)"    "0.052"
neg.nonstate  "0.003"   "(0.018)"    "0.846"
salience      "0.03"    "(0.005)"    "0"
eulegactor    "-0.06"   "(0.038)"    "0.115"
actcom        "-16.143" "(1363.704)" "0.991"
actboepcou    "-15.706" "(1363.704)" "0.991"
actcou        "-15.385" "(1363.704)" "0.991"
contestation  "0.144"   "(0.222)"    "0.517"
leg.duration  "-0.993"  "(0.531)"    "0.061"
novelty       "-0.439"  "(0.547)"    "0.422"
policy.change "-0.077"  "(0.05)"     "0.125"
complexity    "0.001"   "(0.173)"    "0.993"
>
```

#TableA5 Model 2 European Commission

```
> modelA2<-glm(pre.congruence~neg.nonstate+salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change+complexity, data=data5_0, family = "binomial")
> summary(modelA2)

Call:
glm(formula = pre.congruence ~ neg.nonstate + salience + eulegactor +
    actcom + actboepcou + actcou + contestation + duration.m +
    novelty + policy.change + complexity, family = "binomial",
    data = data5_0)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.2209  -0.5473   0.0002   0.5574   1.6495

Coefficients:
               Estimate Std. Error z value Pr(>|z|)
(Intercept)    1.490e+01  1.341e+03   0.011  0.99114
neg.nonstate   3.476e-03  1.810e-02   0.192  0.84771
salience       3.111e-02  5.389e-03   5.772 7.82e-09 ***
eulegactor    -5.077e-02  3.875e-02  -1.310  0.19013
actcom        -1.578e+01  1.341e+03  -0.012  0.99061
actboepcou    -1.580e+01  1.341e+03  -0.012  0.99060
actcou        -1.561e+01  1.341e+03  -0.012  0.99072
contestation   4.108e-04  2.154e-01   0.002  0.99848
duration.m    -1.274e-01  3.889e-02  -3.276  0.00105 **
novelty       -5.637e-01  5.632e-01  -1.001  0.31687
policy.change  1.932e-02  3.333e-02   0.580  0.56214
complexity     1.743e-01  1.820e-01   0.958  0.33800
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 231.51  on 166  degrees of freedom
Residual deviance: 114.46  on 155  degrees of freedom
AIC: 138.46

Number of Fisher Scoring iterations: 15
```

```
> cbind(round(coef(modelA2),3),paste0("(",round(summary(modelA2)$coefficients[,2],3), ")"),round(summary(modelA2)$coefficients[,4],3))
              [,1]      [,2]         [,3]
(Intercept)   "14.899"  "(1341.474)" "0.991"
neg.nonstate  "0.003"   "(0.018)"    "0.848"
salience      "0.031"   "(0.005)"    "0"
eulegactor    "-0.051"  "(0.039)"    "0.19"
actcom        "-15.779" "(1341.473)" "0.991"
actboepcou    "-15.801" "(1341.473)" "0.991"
actcou        "-15.607" "(1341.473)" "0.991"
contestation  "0"       "(0.215)"    "0.998"
duration.m    "-0.127"  "(0.039)"    "0.001"
novelty       "-0.564"  "(0.563)"    "0.317"
policy.change "0.019"   "(0.033)"    "0.562"
complexity    "0.174"   "(0.182)"    "0.338"
>
```

#TableA5 Model 3 EP and The Council

```
> modelA3<-glm(pre.congruence~hetero.sta*salience+eulegactor+actcom+actboepcou+actcou+contestation+duration.m+novelty+policy.change+complexity, data=data5_0, family = "binomial")
> summary(modelA3)

Call:
glm(formula = pre.congruence ~ hetero.sta * salience + eulegactor +
    actcom + actboepcou + actcou + contestation + duration.m +
    novelty + policy.change + complexity, family = "binomial",
    data = data5_0)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.3571  -0.4864  -0.0057   0.4942   1.9301

Coefficients:
                     Estimate Std. Error z value Pr(>|z|)
(Intercept)          1.493e+01  1.368e+03   0.011 0.991293
hetero.sta           7.254e-01  2.726e+00   0.266 0.790185
salience             3.324e-02  5.927e-03   5.608 2.05e-08 ***
eulegactor          -6.846e-02  4.218e-02  -1.623 0.104605
actcom              -1.557e+01  1.368e+03  -0.011 0.990920
actboepcou          -1.516e+01  1.368e+03  -0.011 0.991163
actcou              -1.460e+01  1.368e+03  -0.011 0.991490
contestation        -1.095e-02  2.116e-01  -0.052 0.958732
duration.m          -1.769e-01  4.612e-02  -3.835 0.000126 ***
novelty             -7.796e-01  5.927e-01  -1.315 0.188379
policy.change        3.271e-02  3.197e-02   1.023 0.306261
complexity           2.520e-01  1.879e-01   1.342 0.179731
hetero.sta:salience  1.496e-02  1.533e-02   0.976 0.329130
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 230.12  on 165  degrees of freedom
Residual deviance: 106.81  on 153  degrees of freedom
  (1 observation deleted due to missingness)
AIC: 132.81

Number of Fisher Scoring iterations: 15
```

```
> cbind(round(coef(modelA3),3),paste0("(",round(summary(modelA3)$coefficients[,2],3), ")"),round(summary(modelA3)$coefficients[,4],3))
                    [,1]      [,2]         [,3]
(Intercept)         "14.934"  "(1368.474)" "0.991"
hetero.sta          "0.725"   "(2.726)"    "0.79"
salience            "0.033"   "(0.006)"    "0"
eulegactor          "-0.068"  "(0.042)"    "0.105"
actcom              "-15.573" "(1368.473)" "0.991"
actboepcou          "-15.157" "(1368.473)" "0.991"
actcou              "-14.596" "(1368.473)" "0.991"
contestation        "-0.011"  "(0.212)"    "0.959"
duration.m          "-0.177"  "(0.046)"    "0"
novelty             "-0.78"   "(0.593)"    "0.188"
policy.change       "0.033"   "(0.032)"    "0.306"
complexity          "0.252"   "(0.188)"    "0.18"
hetero.sta:salience "0.015"   "(0.015)"    "0.329"
>
```

#TableA5 Model 4 The Council only

```
> modelA4<-glm(pre.congruence~neg.interest+neg.nonstate+hetero.sta*salience+eulegactor+actcom+actboepcou+actcou+contestation+dur
ation.m+novelty+policy.change+complexity, data=data5_0, family = "binomial")
> summary(modelA4)

Call:
glm(formula = pre.congruence ~ neg.interest + neg.nonstate +
    hetero.sta * salience + eulegactor + actcom + actboepcou +
    actcou + contestation + duration.m + novelty + policy.change +
    complexity, family = "binomial", data = data5_0)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.3763  -0.3893  -0.0069   0.4604   1.7138

Coefficients:
                    Estimate Std. Error z value Pr(>|z|)
(Intercept)         14.31673 1349.65542   0.011 0.991536
neg.interest         0.01994    0.01443   1.382 0.166879
neg.nonstate         0.00994    0.02109   0.471 0.637423
hetero.sta           0.56454    2.91541   0.194 0.846457
salience             0.03358    0.00589   5.702 1.19e-08 ***
eulegactor          -0.08250    0.04382  -1.883 0.059717 .
actcom             -16.03214 1349.65494  -0.012 0.990522
actboepcou         -15.49340 1349.65480  -0.011 0.990841
actcou             -14.85866 1349.65491  -0.011 0.991216
contestation         0.16286    0.23938   0.680 0.496274
duration.m          -0.16562    0.04578  -3.618 0.000297 ***
novelty             -0.56250    0.59367  -0.947 0.343387
policy.change       -0.04037    0.05789  -0.697 0.485540
complexity           0.25121    0.19427   1.293 0.195991
hetero.sta:salience  0.01628    0.01596   1.020 0.307769
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 230.12  on 165  degrees of freedom
Residual deviance: 103.13  on 151  degrees of freedom
  (1 observation deleted due to missingness)
AIC: 133.13

Number of Fisher Scoring iterations: 15
```

#Table A6: Robustness checks of models of policy position of EU decision-makers

#Model 1 all EU decision-makers

```
> summary(model1)

Call:
lm(formula = po.position ~ neg.interest + salience + eulegactor +
    actcom + actboepcou + actcou + contestation + duration.m +
    novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-66.272 -14.136   4.831  17.534  75.143

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  35.76470   19.26925   1.856   0.0653 .
neg.interest -0.16630    0.08413  -1.977   0.0499 *
salience     -0.16840    0.02223  -7.576 3.02e-12 ***
eulegactor    0.26380    0.32094   0.822   0.4124
actcom       37.94096   16.90399   2.244   0.0262 *
actboepcou   38.92449   16.45016   2.366   0.0192 *
actcou       34.92262   16.69471   2.092   0.0381 *
contestation -1.04797    1.76962  -0.592   0.5546
duration.m    0.84721    0.19377   4.372 2.25e-05 ***
novelty      -4.36860    4.63822  -0.942   0.3477
policy.change 0.39116    0.41225   0.949   0.3442
complexity   -2.52656    1.71218  -1.476   0.1421
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 26.53 on 155 degrees of freedom
Multiple R-squared:  0.4091,    Adjusted R-squared:  0.3672
F-statistic: 9.757 on 11 and 155 DF,  p-value: 2.702e-13
```

#Model 2 European Commission

```
> summary(model2)

Call:
lm(formula = pcom ~ neg.nonstate + salience + eulegactor + actcom +
    actboepcou + actcou + contestation + duration.m + novelty +
    policy.change + complexity, data = data5_0)

Residuals:
   Min     1Q Median     3Q    Max
-88.50 -31.32  13.91  29.39  52.08

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)    71.72576   28.53212   2.514   0.0130 *
neg.nonstate   -0.38421    0.23066  -1.666   0.0978 .
salience       -0.00800    0.03239  -0.247   0.8052
eulegactor      1.09847    0.47397   2.318   0.0218 *
actcom         -0.73078   24.77156  -0.030   0.9765
actboepcou    -15.10652   24.19958  -0.624   0.5334
actcou        -18.31237   24.48631  -0.748   0.4557
contestation    0.02446    2.66683   0.009   0.9927
duration.m     -0.09109    0.28789  -0.316   0.7521
novelty        -9.01891    6.76675  -1.333   0.1845
policy.change   0.03063    0.47328   0.065   0.9485
complexity      0.89887    2.51613   0.357   0.7214
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 38.9 on 155 degrees of freedom
Multiple R-squared:  0.08108,   Adjusted R-squared:  0.01587
F-statistic: 1.243 on 11 and 155 DF,  p-value: 0.263
```

#Model 3 EP andThe Council

```
> summary(model3)

Call:
lm(formula = po.position ~ hetero.sta * salience + eulegactor +
    actcom + actboepcou + actcou + contestation + duration.m +
    novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-69.517 -14.591   3.151  16.956  53.043

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)         36.82227   18.91382   1.947   0.0534 .
hetero.sta         -11.88410   18.31030  -0.649   0.5173
salience            -0.16786    0.02241  -7.492 5.07e-12 ***
eulegactor           0.22269    0.31240   0.713   0.4770
actcom              34.40907   16.53018   2.082   0.0390 *
actboepcou          34.50277   16.13641   2.138   0.0341 *
actcou              28.98334   16.41213   1.766   0.0794 .
contestation        -0.12743    1.70592  -0.075   0.9405
duration.m           0.95775    0.19323   4.956 1.88e-06 ***
novelty             -2.56840    4.52886  -0.567   0.5715
policy.change       -0.19215    0.30881  -0.622   0.5347
complexity          -2.53865    1.67779  -1.513   0.1323
hetero.sta:salience -0.07166    0.08651  -0.828   0.4088
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 25.99 on 153 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.4296,    Adjusted R-squared:  0.3849
F-statistic: 9.604 on 12 and 153 DF,  p-value: 9.359e-14
```

#Model 4 The Council only

```
> summary(model4)

Call:
lm(formula = po.position ~ neg.interest + neg.nonstate + hetero.sta *
    salience + eulegactor + actcom + actboepcou + actcou + contestation +
    duration.m + novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-68.029 -13.028   1.342  17.298  58.675

Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
(Intercept)         37.25982   19.15946   1.945   0.0537 .
neg.interest        -0.16230    0.08878  -1.828   0.0695 .
neg.nonstate         0.09676    0.17377   0.557   0.5785
hetero.sta          -6.71893   19.05578  -0.353   0.7249
salience            -0.17100    0.02268  -7.538 4.09e-12 ***
eulegactor           0.26764    0.31745   0.843   0.4005
actcom              36.54790   16.52693   2.211   0.0285 *
actboepcou          35.24281   16.12027   2.186   0.0303 *
actcou              30.26336   16.36135   1.850   0.0663 .
contestation        -0.65812    1.79568  -0.367   0.7145
duration.m           0.92968    0.19458   4.778 4.16e-06 ***
novelty             -3.53234    4.54028  -0.778   0.4378
policy.change        0.28247    0.40528   0.697   0.4869
complexity          -2.44413    1.67682  -1.458   0.1470
hetero.sta:salience -0.08623    0.08769  -0.983   0.3270
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 25.88 on 151 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.4421,    Adjusted R-squared:  0.3903
F-statistic: 8.545 on 14 and 151 DF,  p-value: 2.055e-13
```

#Model 5 Interaction between interest groups opposition and salience, H3

```
> model5<-lm(po.position~neg.interest*salience+neg.nonstate+eulegactor+actcom+actboepcou+actcou+typeact+contestation+duration.m+
novelty+policy.change+complexity, data=data5_0)
> summary(model5)

Call:
lm(formula = po.position ~ neg.interest * salience + neg.nonstate +
    eulegactor + actcom + actboepcou + actcou + typeact + contestation +
    duration.m + novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-63.424 -15.201   4.724  18.201  74.507

Coefficients:
                       Estimate Std. Error t value Pr(>|t|)
(Intercept)          39.7381315 20.9356128   1.898   0.0596 .
neg.interest         -0.2974566  0.2914565  -1.021   0.3091
salience             -0.1829420  0.0418351  -4.373 2.26e-05 ***
neg.nonstate          0.1332996  0.1699793   0.784   0.4341
eulegactor            0.2597332  0.3299540   0.787   0.4324
actcom               37.6215790 17.0630789   2.205   0.0290 *
actboepcou           37.9162204 16.6400169   2.279   0.0241 *
actcou               34.3016547 16.8982463   2.030   0.0441 *
typeact              -2.6665128  3.7130706  -0.718   0.4738
contestation         -0.4768884  1.8874559  -0.253   0.8009
duration.m            0.8662115  0.1979519   4.376 2.24e-05 ***
novelty              -4.5716807  4.7529390  -0.962   0.3376
policy.change         0.3319023  0.4249824   0.781   0.4360
complexity           -2.5491868  1.8023977  -1.414   0.1593
neg.interest:salience  0.0006991  0.0018046   0.387   0.6990
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 26.68 on 152 degrees of freedom
Multiple R-squared:  0.4143,    Adjusted R-squared:  0.3604
F-statistic:  7.68 on 14 and 152 DF,  p-value: 4.366e-12
```

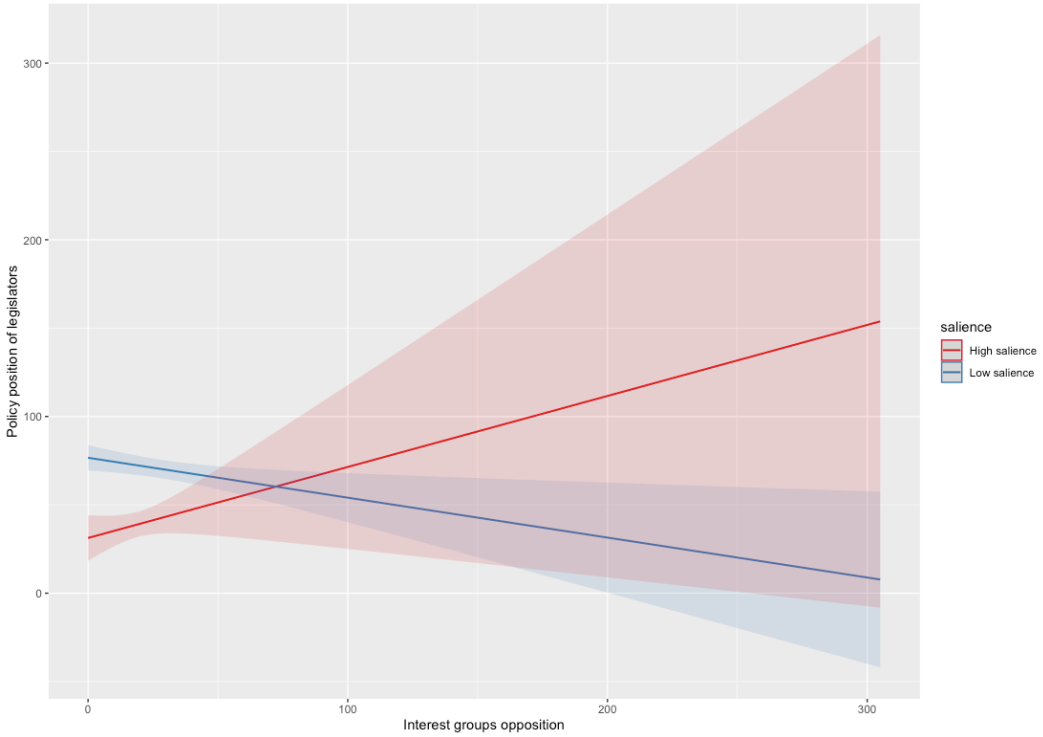
```
> cbind(round(coef(model5),3),paste0("(",round(summary(model5)$coefficients[,2],3), ")"),round(summary(model5)$coefficients[,4],
3))
                      [,1]     [,2]       [,3]
(Intercept)          "39.738" "(20.936)" "0.06"
neg.interest         "-0.297" "(0.291)"  "0.309"
salience             "-0.183" "(0.042)"  "0"
neg.nonstate         "0.133"  "(0.17)"   "0.434"
eulegactor           "0.26"   "(0.33)"   "0.432"
actcom               "37.622" "(17.063)" "0.029"
actboepcou           "37.916" "(16.64)"  "0.024"
actcou               "34.302" "(16.898)" "0.044"
typeact              "-2.667" "(3.713)"  "0.474"
contestation         "-0.477" "(1.887)"  "0.801"
duration.m           "0.866"  "(0.198)"  "0"
novelty              "-4.572" "(4.753)"  "0.338"
policy.change        "0.332"  "(0.425)"  "0.436"
complexity           "-2.549" "(1.802)"  "0.159"
neg.interest:salience "0.001"  "(0.002)"  "0.699"
>
```

Model 5 Figure A1

#pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)

#png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)

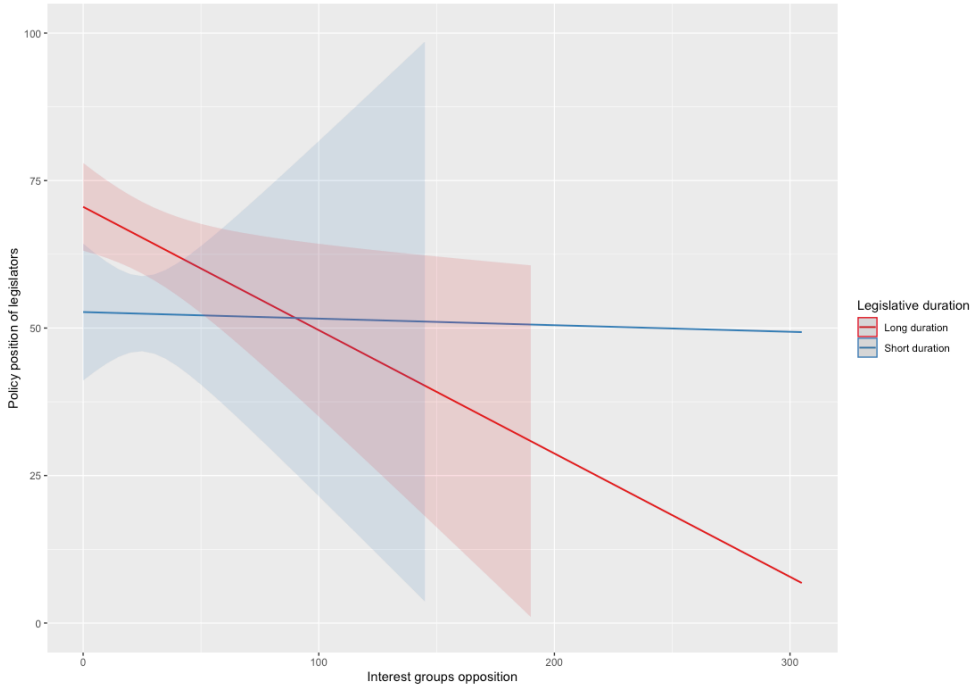
```
> # Model 5 Figure A1
> #pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)
> #png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)
> data5_0$salience_recoded<-recode(data5_0$salience.dt, '0="Low salience"; 1="High salience"')
> model5<-lm(po.position~neg.interest*salience_recoded+neg.nonstate+eulegactor+actcom+actboepcou+actcou+typeact+contestation+dur
ation.m+novelty+policy.change+complexity, data=data5_0)
> cbind(round(coef(model5),3),paste0("(",round(summary(model5)$coefficients[,2],3), ")"),round(summary(model5)$coefficients[,4],
3))
                                          [,1]      [,2]       [,3]
(Intercept)                               "-26.168" "(22.279)" "0.242"
neg.interest                              "0.402"   "(0.289)"  "0.166"
salience_recodedLow salience              "45.4"    "(7.152)"  "0"
neg.nonstate                              "0.012"   "(0.175)"  "0.944"
eulegactor                                "0.038"   "(0.324)"  "0.906"
actcom                                    "45.089"  "(17.606)" "0.011"
actboepcou                                "46.231"  "(17.068)" "0.008"
actcou                                    "43.854"  "(17.43)"  "0.013"
typeact                                   "-0.31"   "(3.711)"  "0.933"
contestation                              "-2.037"  "(1.886)"  "0.282"
duration.m                                "0.886"   "(0.197)"  "0"
novelty                                   "-5.83"   "(4.827)"  "0.229"
policy.change                             "0.348"   "(0.429)"  "0.418"
complexity                                "-1.334"  "(1.764)"  "0.451"
neg.interest:salience_recodedLow salience "-0.628"  "(0.29)"   "0.032"
> par(mfrow=c(1,1))
> plot_model(model5, type ="int",axis.title="Policy position of legislators",legend.title ="salience", title="")+labs(x="Interes
t groups opposition")
```



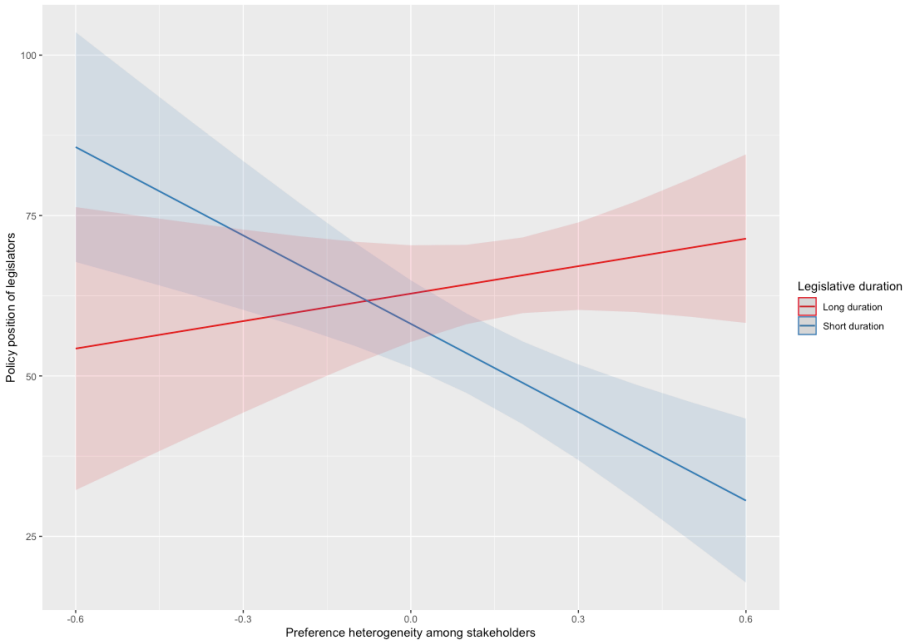
#Model 6 Interaction between interest groups opposition and legislative duration, H3

```
> model6<-lm(po.position~neg.interest*duration.m+eulegactor+actcom+actboepcou+actcou+typeact+salience+contestation+novelty+policy.change+complexity, data=data5_0)
> summary(model6)

Call:
lm(formula = po.position ~ neg.interest * duration.m + eulegactor +
    actcom + actboepcou + actcou + typeact + salience + contestation +
    novelty + policy.change + complexity, data = data5_0)

Residuals:
    Min      1Q  Median      3Q     Max
-63.196 -14.753   4.013  17.454  73.574

Coefficients:
                          Estimate Std. Error t value Pr(>|t|)
(Intercept)             38.708104  21.038415   1.840   0.0677 .
neg.interest            -0.107755   0.349023  -0.309   0.7579
duration.m               0.900728   0.392350   2.296   0.0230 *
eulegactor               0.302643   0.326943   0.926   0.3561
actcom                  37.657289  17.049074   2.209   0.0287 *
actboepcou              38.468463  16.577062   2.321   0.0216 *
actcou                  34.246639  16.801339   2.038   0.0432 *
typeact                 -2.559419   3.674034  -0.697   0.4871
salience                -0.169987   0.022466  -7.567 3.34e-12 ***
contestation            -0.846525   1.805882  -0.469   0.6399
novelty                 -4.302976   4.848995  -0.887   0.3763
policy.change            0.322746   0.424931   0.760   0.4487
complexity              -2.820363   1.774196  -1.590   0.1140
neg.interest:duration.m -0.002371   0.014116  -0.168   0.8668
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 26.66 on 153 degrees of freedom
Multiple R-squared:  0.4111,    Adjusted R-squared:  0.3611
F-statistic: 8.217 on 13 and 153 DF,  p-value: 2.13e-12
```

#Model 6 Figure A2
#pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)
#png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)



#Model 7 Interaction between Preference heterogeneity among stakeholders and legislative duration, Figure A3
#pdf("./plots/pdf/hetero_sa_int.pdf",width=9,height=6)
#png("./plots/png/hetero_sa_int.png",width=1100, height=800, res=120)



#dev.off()
###THE END