ALP Refugee inclusion

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This document is meant to be a replicable file for any analysis conducted on the data collected by Adida, Lo and Platas Izama (ALP) in the project "Engendering empathy among Americans can promote inclusionary behavior toward Syrian refugees" (2018). This is the full dataset of 5,400 observations.

Key dependent variables are Y2 and Y6, secondary dependent variables are Y1 and Backlash (survey_neg). Below is a list of some of the most commonly used variables and short descriptions of each. Note some of the variables described below will be created in the data cleaning portion of this rmd file. For a longer description on all variables in the dataset, please see the ALP codebook.

Name	Description
Treatment_Group	Categorical variable taking values 1-6
Control	Binary variable for whether respondent was randomized Control treatment
Empathy	Binary variable for whether respondent was randomized Empathy treatment
Persuasion	Binary variable for whether respondent was randomized Information treatment
sex	Binary variable for whether respondent is female (1) or male (0)
birthyr	Continuous variable for year of birth of respondent
birthcountry	Categorical variable for country of birth of respondent
educ	Ordered categorical variable for education level of respondent (1 lowest, 6 highest)
religpew	Ordered categorical variable for Pew religion of respondent
partyid3	3-pt party ID variable, inclusive of categories for other and not sure
ethnocentric1	Continuous variable for adapted ethnocentric measure of respondent
choose_muslim	Binary variable (Y1) for whether the respondent chooses the Muslim (1) profile or Christian (0)
Y2/Y3	Respondent scale of acceptance of refugee 1/2 in each presented conjoint profile pair, from 1-7
Y4	Binary variable for whether respondent favors accepting refugee passing gov screening
Y6_new	Binary variable for whether respondent will letter to next President of US supporting refugees
survey_neg	Binary variable (Backlash) for whether the respondent wrote a negative evaluation of the survey (1) or not

Data cleaning

The original data is set up to reflect the YouGov data storage system, which requires further cleaning and arrangement before analysis. Below are pre-analysis cleaning steps.

Conjoint variables

For variables on gender, Male is coded as 1 while Female is coded as 0; 8 codes for skipped. Note Refugee1_Attribute6 describes the country the refugee profile is from, and all refugees were designed to come from Syria.

The 1st pair of refugees are denoted by an 'a' after R1 or R2, 2nd pair of refugees are denoted by a 'b' after R1 or R2, 3rd pair are denoted by 'c' after R1 or R2.

```
#gender: 1=Male, 0=Female
data$R1a_sex<-data$Refugee1_Attribute1
data$R1a_sex[data$R1a_sex==2]<-0
data$R2a_sex<-data$Refugee2_Attribute1
data$R2a_sex[data$R2a_sex==2]<-0
#sex
data$R1b_sex<-data$Refugee1a_Attribute1
data$R1b_sex[data$R1b_sex==2]<-0</pre>
```

```
data$R2b_sex<-data$Refugee2a_Attribute1
data$R2b_sex[data$R2b_sex==2]<-0
data$R1c_sex<-data$Refugee1b_Attribute1
data$R1c sex[data$R1c sex==2]<-0
data$R2c_sex<-data$Refugee2b_Attribute1
data\$R2c\_sex[data\$R2c\_sex==2]<-0
#religion: 1=Muslim, O=Christian
data$R1a_muslim<-data$Refugee1_Attribute2
data$R1a_muslim[data$R1a_muslim==1]<-0
data$R1a_muslim[data$R1a_muslim==2]<-1
data$R2a muslim<-data$Refugee2 Attribute2
data$R2a_muslim[data$R2a_muslim==1]<-0
data$R2a_muslim[data$R2a_muslim==2]<-1
data$R1b_muslim<-data$Refugee1a_Attribute2
data$R1b_muslim[data$R1b_muslim==1]<-0
data$R1b_muslim[data$R1b_muslim==2]<-1
data$R2b_muslim<-data$Refugee2a_Attribute2
data$R2b_muslim[data$R2b_muslim==1]<-0
data$R2b_muslim[data$R2b_muslim==2]<-1</pre>
data$R1c_muslim<-data$Refugee1b_Attribute2
data$R1c muslim[data$R1c muslim==1]<-0</pre>
data$R1c_muslim[data$R1c_muslim==2]<-1
data$R2c_muslim<-data$Refugee2b_Attribute2
data$R2c_muslim[data$R2c_muslim==1]<-0
data$R2c_muslim[data$R2c_muslim==2]<-1</pre>
#profession: 1=Farmer, 2=Teacher, 3=Doctor
data$R1a_job<-data$Refugee1_Attribute3
data$R2a job<-data$Refugee2 Attribute3
data$R1b_job<-data$Refugee1a_Attribute3
data$R2b_job<-data$Refugee2a_Attribute3
data$R1c_job<-data$Refugee1b_Attribute3
data$R2c_job<-data$Refugee2b_Attribute3
#lanquage: 1=Fluent, 2=Broken, 3=None
data$R1a_english<-data$Refugee1_Attribute4
data$R2a_english<-data$Refugee2_Attribute4
data$R1b_english<-data$Refugee1a_Attribute4
data$R2b_english<-data$Refugee2a_Attribute4
data$R1c_english<-data$Refugee1b_Attribute4
data$R2c_english<-data$Refugee2b_Attribute4
#age: 1=20, 2=40, 3=60
data$R1a_age<-data$Refugee1_Attribute5
data$R2a_age<-data$Refugee2_Attribute5
data$R1b_age<-data$Refugee1a_Attribute5
data$R2b_age<-data$Refugee2a_Attribute5
data$R1c age<-data$Refugee1b Attribute5
data$R2c_age<-data$Refugee2b_Attribute5
# Number of Muslim profiles
data$num_muslim<-NA
data$num_muslim<-rowSums(data[, c("R1a_muslim","R2a_muslim","R1b_muslim","R2b_muslim","R1c_muslim","R2c_muslim","R2c_muslim","R2c_muslim","R2c_muslim","R2c_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_muslim","R2b_musli
data$num_muslim<-scale(data$num_muslim)</pre>
```

Respondent covariates

Retain immigrant, birthyr, race, educ, votereg (voter registration), newsint (political interest) variables. Create several different versions of variable.

```
data$immigrant1<-data$immigrant
data$immigrant1[data$immigrant1==0]<-1</pre>
data$immigrant1[data$immigrant1==3]<-2
data$immigrant1[data$immigrant1==4]<-3
data$immigrant1[data$immigrant1==5]<-4
data$immigrant2<-ifelse(data$immigrant==5,1,0) #only if respondent and both parents/grandparents are all be
#birthstate
data$birthstate<-data$S2
#country of birth
data$birthcountry<-data$S3
\#gender, M=1, F=0
data$sex<-data$gender
data$sex[data$sex==2]<-0
#state of residence
data$residstate<-data$inputstate
  # coarsened geographic variable for where in states living (inputstate)
  \# use regional divisions by US Census Bureau (https://en.wikipedia.org/wiki/List_of_regions_of_the_United
data$residstate[data$residstate==9|data$residstate==23|data$residstate==25|data$residstate==33|data$residst
data$residstate[data$residstate==34|data$residstate==36|data$residstate==42]<-"Division2" #(New Jersey, New Jersey)
data$residstate[data$residstate==17|data$residstate==18|data$residstate==26|data$residstate==39|data$resids
data$residstate[data$residstate==19|data$residstate==20|data$residstate==27|data$residstate==29|data$resids
data$residstate[data$residstate==10|data$residstate==12|data$residstate==13|data$residstate==24|data$resids
data$residstate[data$residstate==1|data$residstate==21|data$residstate==28|data$residstate==47]<-"Division6
data$residstate[data$residstate==5|data$residstate==22|data$residstate==40|data$residstate==48]<-"Division7
data$residstate[data$residstate==4|data$residstate==8|data$residstate==16|data$residstate==30|data$residstate
data$residstate[data$residstate==2|data$residstate==6|data$residstate==15|data$residstate==41|data$residstate
data$residstate<-as.factor(data$residstate)</pre>
#marital status
data$marital_status<-data$marstat
#employment status
data$employment_status<-data$employ
#family income
data$family_income<-data$faminc
#3 point party ID: 1=democrat, 2=republican, 3=independent, 4=other, 5=not sure
data$partyid3<-data$pid3
#3 point party ID: 1=democrat, 2=republican, 3=independent, 4=other, 5=not sure
data$partyid3<-data$pid3
data$partyid3_names<-data$partyid3
data$partyid3_names[data$partyid3_names==1]<-"Democrat"
data$partyid3_names[data$partyid3_names==2]<-"Republican"
data$partyid3_names[data$partyid3_names==3]<-"Independent"
data$partyid3_names[data$partyid3_names==4]<-"Other"</pre>
data$partyid3_names[data$partyid3_names==5]<-"Not Sure"
data$partyid3_names<-as.factor(data$partyid3_names)</pre>
#7 point party ID: 1=strong dem, 2=not strong dem, 3=lean dem, 4=indep, 5=lean rep, 6=not strong rep, 7=str
data$partyid7<-data$pid7
# ideology
data$ideology<-data$ideo5
```

Refugee knowledge questions

These variables code for whether the respondent knew a number of different facts related to refugees.

```
data$info1<- data$$4# Number of Syrian refugees admitted into US post 9/11
data$info2<- data$$5# US admitted proportionally more/fewer refugees than Canada
data$info3<- data$$6# US admitted proportionally more/fewer refugees than France
```

Ethnocentric questions

The original measure includes 24 items, each weighted equally. For eight items, each weighted equally with 5 points each, we will consider anyone scoring above 27 as high ethnocentric and anyone scoring below 17 as low ethnocentric, which is directly scaled from the original scoring scheme.

Information treatment specific questions

SP1a asks the respondent if the information text is new information (note in data, this variable is called "Persuasion"). Yes is coded as a 1, No as a 0. SP1b asks respondent if they believe US resettled proportinally more, fewer or about the same refugees as other democracies such as Canada, France or Germany. More is coded as 1, Fewer as 2, and Same as 3.

```
data$persuasion_infonew<-data$SP1a data$persuasion_infonew<-ifelse(data$persuasion_infonew==2,0,1)#recode as 1 if new, 0 otherwise.
```

Outcome variables

Outcome variables include Y1, Y2, Y3, Y4, Y6. Y1-Y3 are collected several times for each respondent. Y4 and Y6 (as well as backlash) are collected once per respondent.

```
#Y1: refugee 1 or refugee 2?
  #for refugee pair a
#`SC1` (Control)/`SE2` (Empathy)/`SP2` (Persuasion) is a variable that asks whether the respondent would pr
data$y1_a<-data$SC1
data$y1_a<-ifelse(is.na(data$y1_a)&(data$Treatment_Group==3|data$Treatment_Group==4),data$SE2,data$y1_a)
data$y1_a<-ifelse(is.na(data$y1_a)&(data$Treatment_Group==5|data$Treatment_Group==6),data$SP2,data$y1_a)
  #recode into refugee1=0, refugee2=1
data$y1_a[data$y1_a==1]<-0
data\$y1_a[data\$y1_a==2]<-1
  #for refugee pair b
#`SC1a` (Control)/`SE2a` (Empathy)/`SP2a` (Persuasion) is a variable that asks whether the respondent would
data$y1_b<-data$SC1
data$y1_b<-ifelse(is.na(data$y1_b)&(data$Treatment_Group==3|data$Treatment_Group==4),data$SE2a,data$y1_b)
data$y1_b<-ifelse(is.na(data$y1_b)&(data$Treatment_Group==5|data$Treatment_Group==6),data$SP2a,data$y1_b)
  #recode into refugee1=0, refugee2=1
data$y1_b[data$y1_b==1]<-0
data$y1_b[data$y1_b==2]<-1
  #for refugee pair c
#`SC1b` (Control)/`SE2b` (Empathy)/`SP2b` (Persuasion) is a variable that asks whether the respondent would
data$y1_c<-data$SC1
data$y1_c<-ifelse(is.na(data$y1_c)&(data$Treatment_Group==3|data$Treatment_Group==4),data$SE2b,data$y1_c)
data$y1_c<-ifelse(is.na(data$y1_c)&(data$Treatment_Group==5|data$Treatment_Group==6),data$SP2b,data$y1_c)
  #recode into refugee1=0, refugee2=1
data\$y1_c[data\$y1_c==1]<-0
data\$y1_c[data\$y1_c==2]<-1
```

```
#Y2 (refugee 1)
  #for refugee pair a
#`SC3` (Control)/`SE4` (Empathy)/`SP4` (Persuasion) is a variable that asks whether the respondent thinks of
data$y2_a<-data$SC3 #need to combine variables so that new variable takes on values
data$y2_a<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE4,data$y2_a)#3,4 are Empathy
data$y2_a<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$SP4,data$y2_a)#5,6 are Persuasion
  #for refugee pair b
#`SC3a` (Control)/`SE4a` (Empathy)/`SP4a` (Persuasion) is a variable that asks whether the respondent think
data$y2_b<-data$SC3a #need to combine variables so that new variable takes on values
data$y2_b<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE4a,data$y2_b)
data$y2_b<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$SP4a,data$y2_b)
  #for refugee pair c
#`SC3b` (Control)/`SE4b` (Empathy)/`SP4b` (Persuasion) is a variable that asks whether the respondent think
data$y2_c<-data$SC3b
data$y2_c<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE4b,data$y2_c)
data$y2_c<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$$P4b,data$y2_c)
#Y3 (refugee 2)
**SC4` (Control)/`SE5` (Empathy)/`SP5` (Persuasion) is a variable that asks whether the respondent thinks a
data$y3_a<-data$SC4
data$y3_a<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE5,data$y3_a)
data$y3_a<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$SP5,data$y3_a)
\#\SC4a\ (Control)/\SE5a\ (Empathy)/\SP5a\ (Persuasion) is a variable that asks whether the respondent think
data$y3_b<-data$SC4a
data$y3_b<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE5a,data$y3_b)
data$y3_b<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$SP5a,data$y3_b)
#`SC4b` (Control)/`SE5b` (Empathy)/`SP5b` (Persuasion) is a variable that asks whether the respondent think
data$y3 c<-data$SC4b
data$y3_c<-ifelse((data$Treatment_Group==3|data$Treatment_Group==4),data$SE5b,data$y3_c)
data$y3_c<-ifelse((data$Treatment_Group==5|data$Treatment_Group==6),data$SP5b,data$y3_c)
#`SC5` (Control)/`SE6` (Empathy)/`SP6` (Persuasion) is a variable that asks whether respondent favors/oppos
data$y4<-data$SC5
data$y4<-ifelse(is.na(data$y4)&(data$Treatment_Group==3|data$Treatment_Group==4),data$SE6,data$y4)
data$y4<-ifelse(is.na(data$y4)&(data$Treatment_Group==5|data$Treatment_Group==6),data$SP6,data$y4)
  #recode into oppose=0, favor=1
data\$y4[data\$y4==2]<-0
#Y6
**SC7a` (Control)/`SE8a` (Empathy)/`SP8a` (Persuasion) is a variable that asks if the respondent would be
data$y6<-data$SC7a
data$y6<-ifelse(is.na(data$y6)&(data$Treatment_Group==3|data$Treatment_Group==4),data$SE8a,data$y6)
data$y6<-ifelse(is.na(data$y6)&(data$Treatment_Group==5|data$Treatment_Group==6),data$SP8a,data$y6)
  #recode into oppose=0, favor=1
data\$y6[data\$y6==2]<-0
```

Pew religion variables

Demeaned covariates

This section de-means covariates we will be using in the regressions in the hypotheses section. These include sex, birthyr, birthcountry, educ, religpew, partyid3, and ethnocentric1.

Treatment group variables

Long version of data

We create different stacked versions of the data to look at differences in Y1, Y2, Y3 across refugee profile pairs within respondents. We also create subsets of the data with just respondents who received either Control or Persuasion, Control or Empathy treatments, and Empathy or Persuasion treatments. (Note again, here "Persuasion" is the Information treatment.) Y1 is used in the context of analyzing the choice a respondent in preferring a Muslim profile over a Christian profile when presented with the two, so first we must reduce the data to situations where the respondent is presented with such a pair, when conducting analyses on Y1.

Save the cleaned data.

```
save.image("cleandata.RData")
```

This is the end of the pre-analysis data prep.

PAP Analysis

This section conducts the hypothesis tests specified in the Adida, Lo, Platas preanalysis plan.

We can start here with cleandata.RData if we like. Control variables include: gender, age, US born, education level, religion, party ID, and ethnocentrism as specified in our PAP.

```
rm(list=ls())
load("cleandata.RData")
#function for ols, calculating regression outputs with possibility for robust, clustered, robust-clustered
#from Mahmood Arai
clx <-function(fm, cluster=NULL){</pre>
  if(length(cluster)!=0){
    M <- length(unique(cluster))</pre>
    dfcw \leftarrow fm$df / (fm$df - (M -1))
    N <- length(cluster)</pre>
    dfc \leftarrow (M/(M-1))*((N-1)/(N-fm\$rank))
    u <- apply(estfun(fm),2,
                function(x) tapply(x, cluster, sum))
    vcovCL <- dfc*sandwich(fm, meat=crossprod(u)/N)*dfcw</pre>
    coeftest(fm, vcovCL) }
  else{
    vcovR<-vcovHC(fm,sandwich=TRUE,type="HC") #heteroskedastic consistent cov matrix estimation, with White
    coeftest(fm,vcovR)
}
#mahmood arai - just cluster
cl <- function(fm, dat,cluster){</pre>
  require(sandwich, quietly = TRUE)
  require(lmtest, quietly = TRUE)
  M <- length(unique(cluster))</pre>
  N <- length(cluster)
  K <- fm$rank</pre>
  dfc \leftarrow (M/(M-1))*((N-1)/(N-K))
  uj <- apply(estfun(fm),2, function(x) tapply(x, cluster, sum));</pre>
  vcovCL <- dfc*sandwich(fm, meat=crossprod(uj)/N)</pre>
  coeftest(fm, vcovCL) }
```

Primary hypotheses: H1a - H4b

H1a:

Respondents who receive the empathy prime will give higher admission scores (7 point scale) than those in the control group.

```
##
## t test of coefficients:
##
##
                                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                               0.155702 34.3122 < 2.2e-16
                                     5.342491
## Empathy
                                     -0.069692
                                                0.215403 -0.3235 0.7462901
## sex
                                      0.025165
                                                0.055831 0.4507 0.6521948
## birthyr
                                      0.069545
                                               0.054916 1.2664 0.2053999
## immigrant2
                                     -0.271542
                                                 0.120075 -2.2614 0.0237519
## educ
                                      0.159080
                                                 0.056220 2.8296 0.0046691
## religpew2
                                     -0.166805
                                                 0.172182 -0.9688 0.3326802
## religpew3
                                                 0.334102 -0.0703 0.9439795
                                     -0.023478
## religpew4
                                     0.601571
                                                 0.288517 2.0850 0.0370884
## religpew5
                                     0.326796
                                                 0.282008 1.1588 0.2465567
## religpew6
                                     -0.060493
                                                 0.370757 -0.1632 0.8703941
## religpew7
                                     0.353742
                                                 0.398324 0.8881 0.3745188
## religpew8
                                                 0.173928 11.0948 < 2.2e-16
                                      1.929700
## religpew9
                                      0.347702
                                                 0.227496 1.5284 0.1264463
                                                 0.218569 2.0851 0.0370850
## religpew10
                                      0.455735
## religpew11
                                     0.036865
                                                 ## religpew12
                                                 0.243286 2.7005 0.0069342
                                     0.656995
## partyid3_namesIndependent
                                                 0.130910 -6.8783 6.395e-12
                                     -0.900436
## partyid3 namesNot Sure
                                     -0.827434
                                                 0.238375 -3.4711 0.0005203
## partyid3 namesOther
                                                 0.409197 1.6372 0.1016169
                                     0.669939
## partyid3_namesRepublican
                                     -1.170135
                                                 0.147207 -7.9489 2.070e-15
## ethnocentric1
                                     -0.338140
                                                 0.075060 -4.5049 6.709e-06
## Empathy:sex
                                     -0.017827
                                                 0.079312 -0.2248 0.8221650
## Empathy:birthyr
                                     0.147463
                                                 0.078610 1.8759 0.0606991
                                                 0.171237 0.5839 0.5593264
## Empathy:immigrant2
                                      0.099979
## Empathy:educ
                                     0.025806
                                                 0.079604 0.3242 0.7458104
## Empathy:religpew2
                                     0.235765
                                                 0.235206 1.0024 0.3161843
## Empathy:religpew3
                                                 0.611154 0.3395 0.7342050
                                     0.207515
## Empathy:religpew4
                                     -1.727104
                                                 0.866089 -1.9941 0.0461617
## Empathy:religpew5
                                                 0.461128 -0.9778 0.3281907
                                     -0.450895
## Empathy:religpew6
                                     0.390024
                                                 0.819007 0.4762 0.6339307
## Empathy:religpew7
                                     0.657508
                                                 0.456837 1.4393 0.1501053
## Empathy:religpew8
                                     -1.135308
                                                 0.456051 -2.4894 0.0128097
## Empathy:religpew9
                                     -0.408101
                                                 0.330163 -1.2361 0.2164635
## Empathy:religpew10
                                     -0.354986
                                                 0.312783 -1.1349 0.2564304
## Empathy:religpew11
                                                 0.232531 -0.8600 0.3897810
                                     -0.199988
## Empathy:religpew12
                                     -0.774949
                                                 0.336835 -2.3007 0.0214287
## Empathy:partyid3_namesIndependent 0.380942
                                                 0.182340 2.0892 0.0367143
## Empathy:partyid3_namesNot Sure
                                      0.081509
                                                 0.351715 0.2317 0.8167385
## Empathy:partyid3_namesOther
                                                 1.684131 -1.2167 0.2237508
                                     -2.049057
## Empathy:partyid3_namesRepublican -0.072680
                                                 0.215308 -0.3376 0.7356980
## Empathy:ethnocentric1
                                     -0.031580
                                                 0.101214 -0.3120 0.7550399
##
## (Intercept)
                                     ***
## Empathy
## sex
```

```
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                   ***
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
## ethnocentric1
                                   ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent *
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## t test of coefficients:
##
##
                                     Estimate Std. Error t value Pr(>|t|)
                                    5.5745433 0.2301359 24.2228 < 2.2e-16
## (Intercept)
                                   -0.4679781 0.2990213 -1.5650 0.117605
## Empathy
## sex
                                    0.0559628 0.0719096 0.7782 0.436446
## birthyr
                                    0.0733330 0.0734765 0.9980 0.318280
## immigrant2
                                   0.1149444 0.0701493 1.6386 0.101333
## educ
## religpew2
                                   ## religpew3
                                   -0.4330252   0.4820478   -0.8983   0.369044
## religpew4
                                    0.5502010 0.3315435 1.6595 0.097041
                                    0.2743345 0.2866451 0.9571 0.338562
## religpew5
## religpew6
                                   -0.0122865 0.5694330 -0.0216 0.982786
```

```
0.3301181 0.3686817 0.8954 0.370593
## religpew7
                                  1.9002483 0.2436368 7.7995 6.790e-15
## religpew8
                                  0.1392791 0.3150497 0.4421 0.658436
## religpew9
## religpew10
                                  0.2874129 0.2921788 0.9837 0.325291
## religpew11
                                 -0.1713517 0.2183617 -0.7847
                                                             0.432638
                                  0.7401721 0.3065067 2.4149 0.015758
## religpew12
## partyid3_namesIndependent
                                 ## partyid3 namesNot Sure
                                 ## partyid3_namesOther
                                  0.3307469 0.3489798 0.9478 0.343276
## partyid3_namesRepublican
                                 -1.2618506 0.1824456 -6.9163 4.899e-12
                                 -0.3179628 0.0902624 -3.5226 0.000429
## ethnocentric1
## Empathy:sex
                                 -0.1411056 0.1044130 -1.3514 0.176590
                                  ## Empathy:birthyr
                                  0.4256603 0.2233001 1.9062
## Empathy:immigrant2
                                                              0.056648
                                  0.0634736 0.0970109 0.6543
## Empathy:educ
                                                             0.512937
## Empathy:religpew2
                                  0.2603279   0.3152809   0.8257
                                                              0.408992
                                  0.8913800 0.6942467 1.2840
## Empathy:religpew3
                                                              0.199186
## Empathy:religpew4
                                 -0.4664798 1.0811221 -0.4315
                                                              0.666130
## Empathy:religpew5
                                 ## Empathy:religpew6
                                 -0.9202582 1.3615510 -0.6759 0.499125
                                  0.8890981 0.4363195 2.0377
## Empathy:religpew7
                                                             0.041602
## Empathy:religpew8
                                 -1.0126338 0.4826961 -2.0979
                                                              0.035940
## Empathy:religpew9
                                 -0.1339990 0.4413138 -0.3036 0.761411
## Empathy:religpew10
                                 ## Empathy:religpew11
                                  0.1174917  0.3250430  0.3615  0.717759
                                 -1.0158970 0.4629480 -2.1944 0.028227
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
                                 0.6889859 0.2427592 2.8381 0.004546
## Empathy:partyid3_namesNot Sure
                                  -0.3218967 0.4974541 -0.6471
                                                              0.517589
## Empathy:partyid3_namesOther
                                  -1.1171143 1.7680444 -0.6318
                                                              0.527507
## Empathy:partyid3_namesRepublican
                                  0.0960791 0.2735091 0.3513
                                                              0.725383
## Empathy:ethnocentric1
                                  0.0028958 0.1301793 0.0222 0.982253
##
## (Intercept)
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
                                  ***
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                                  ***
## ethnocentric1
                                  ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
```

```
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent **
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Empathy on Y2.

H₁b:

##

Respondents who receive the persuasion prime will give higher admission scores (7 point scale) than those in the control group.

```
## t test of coefficients:
##
##
                                      Estimate Std. Error t value
## (Intercept)
                                     5.3424914 0.1556935 34.3142
## Persuasion
                                    ## sex
                                     0.0251646 0.0558278 0.4508
## birthyr
                                     0.0695449 0.0549127 1.2665
                                     -0.2715419 0.1200681 -2.2616
## immigrant2
## educ
                                     0.1590799 0.0562165 2.8298
                                     -0.1668050 0.1721721 -0.9688
## religpew2
## religpew3
                                     0.6015712 0.2885005 2.0852
## religpew4
## religpew5
                                     0.3267956 0.2819924 1.1589
## religpew6
                                     ## religpew7
                                     0.3537424 0.3983015 0.8881
## religpew8
                                     1.9296997 0.1739188 11.0954
                                     0.3477021 0.2274836 1.5285
## religpew9
                                     0.4557349 0.2185566 2.0852
## religpew10
## religpew11
                                     0.0368653 0.1638292 0.2250
## religpew12
                                     0.6569949 0.2432721 2.7007
## partyid3_namesIndependent
                                    -0.9004356 0.1309031 -6.8786
## partyid3_namesNot Sure
                                    -0.8274341
                                               0.2383614 -3.4713
## partyid3_namesOther
                                     0.6699393
                                               0.4091742 1.6373
## partyid3_namesRepublican
                                    -1.1701354 0.1471989 -7.9493
## ethnocentric1
                                               0.0750555 -4.5052
                                    -0.3381395
## Persuasion:sex
                                     -0.0223383
                                               0.0795580 -0.2808
## Persuasion:birthyr
                                     0.1630889
                                               0.0751474 2.1703
## Persuasion:immigrant2
                                     0.1181754
                                               0.1710497 0.6909
## Persuasion:educ
                                     -0.0208080
                                               0.0797583 -0.2609
```

```
0.2761774 0.2388746 1.1562
## Persuasion:religpew2
                                         0.4755923 0.5939803 0.8007
## Persuasion:religpew3
## Persuasion:religpew4
                                         0.0627853 0.6085396 0.1032
## Persuasion:religpew5
                                        -0.3458219  0.4567647  -0.7571
## Persuasion:religpew6
                                         0.8881371 0.7024622 1.2643
                                         0.5294197 0.5284267 1.0019
## Persuasion:religpew7
## Persuasion:religpew9
                                         ## Persuasion:religpew10
                                        -0.1079104 0.3176517 -0.3397
                                        -0.1257153 0.2345460 -0.5360
## Persuasion:religpew11
## Persuasion:religpew12
                                        -0.6115192 0.3812944 -1.6038
## Persuasion:partyid3_namesIndependent
                                        0.0095755 0.1887428 0.0507
## Persuasion:partyid3_namesNot Sure
                                        -0.0263460 0.3627851 -0.0726
## Persuasion:partyid3_namesOther
                                        -1.7637065 0.6063070 -2.9089
                                                    0.2128466 -1.1539
## Persuasion:partyid3_namesRepublican
                                        -0.2455945
## Persuasion:ethnocentric1
                                         0.0123537 0.1041964 0.1186
##
                                         Pr(>|t|)
## (Intercept)
                                        < 2.2e-16 ***
## Persuasion
                                        0.5050654
## sex
                                        0.6521767
## birthvr
                                        0.2053746
## immigrant2
                                        0.0237441 *
## educ
                                        0.0046668 **
## religpew2
                                        0.3326532
## religpew3
                                        0.9439764
## religpew4
                                        0.0370778
## religpew5
                                        0.2465304
## religpew6
                                        0.8703869
## religpew7
                                        0.3744922
## religpew8
                                        < 2.2e-16 ***
## religpew9
                                        0.1264251
## religpew10
                                        0.0370744 *
## religpew11
                                        0.8219656
## religpew12
                                        0.0069311 **
## partyid3_namesIndependent
                                        6.378e-12 ***
## partyid3_namesNot Sure
                                        0.0005199 ***
## partyid3_namesOther
                                        0.1015978
## partyid3 namesRepublican
                                        2.063e-15 ***
## ethnocentric1
                                        6.701e-06 ***
## Persuasion:sex
                                        0.7788846
## Persuasion:birthyr
                                        0.0300095
## Persuasion:immigrant2
                                        0.4896538
## Persuasion:educ
                                        0.7941842
## Persuasion:religpew2
                                        0.2476410
## Persuasion:religpew3
                                        0.4233306
## Persuasion:religpew4
                                        0.9178270
## Persuasion:religpew5
                                        0.4489995
## Persuasion:religpew6
                                        0.2061425
## Persuasion:religpew7
                                        0.3164245
## Persuasion:religpew9
                                        0.4673707
## Persuasion:religpew10
                                        0.7340793
## Persuasion:religpew11
                                        0.5919736
## Persuasion:religpew12
                                        0.1087879
## Persuasion:partyid3_namesIndependent 0.9595392
## Persuasion:partyid3_namesNot Sure
                                        0.9421087
## Persuasion:partyid3_namesOther
                                        0.0036341 **
## Persuasion:partyid3_namesRepublican 0.2485846
## Persuasion:ethnocentric1
                                        0.9056245
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
##
                                         Estimate Std. Error t value
                                                    0.230123 24.2242
## (Intercept)
                                         5.574543
## Persuasion
                                        -0.531909
                                                    0.294075 -1.8088
                                                    0.071906 0.7783
## sex
                                         0.055963
## birthyr
                                         0.073333
                                                    0.073472 0.9981
## immigrant2
                                        -0.375926
                                                    0.164590 -2.2840
## educ
                                         0.114944
                                                    0.070145 1.6387
## religpew2
                                        -0.203272
                                                    0.238694 -0.8516
## religpew3
                                        -0.433025
                                                    0.482021 -0.8984
                                         0.550201
## religpew4
                                                    0.331525 1.6596
                                                    0.286629 0.9571
## religpew5
                                         0.274334
## religpew6
                                        -0.012287
                                                    0.569401 -0.0216
## religpew7
                                                    0.368661 0.8955
                                         0.330118
## religpew8
                                         1.900248
                                                    0.243623 7.7999
                                                    0.315032 0.4421
## religpew9
                                         0.139279
## religpew10
                                         0.287413
                                                    0.292162 0.9837
## religpew11
                                        -0.171352
                                                    0.218349 -0.7848
                                                    0.306490 2.4150
## religpew12
                                         0.740172
## partyid3_namesIndependent
                                        -1.090740
                                                    0.180973 -6.0271
## partyid3 namesNot Sure
                                        -0.487492
                                                    0.325631 -1.4971
## partyid3_namesOther
                                         0.330747
                                                    0.348960 0.9478
## partyid3_namesRepublican
                                        -1.261851
                                                    0.182435 -6.9167
## ethnocentric1
                                        -0.317963
                                                    0.090257 -3.5228
## Persuasion:sex
                                        -0.064223
                                                    0.102247 -0.6281
## Persuasion:birthyr
                                         0.144063
                                                    0.097369 1.4796
## Persuasion:immigrant2
                                         0.294668
                                                    0.225231 1.3083
## Persuasion:educ
                                         0.079117
                                                    0.095794 0.8259
## Persuasion:religpew2
                                         0.428539
                                                    0.316162 1.3554
## Persuasion:religpew3
                                         1.161864
                                                    0.790248 1.4703
## Persuasion:religpew4
                                                    0.678226 -0.2907
                                        -0.197165
## Persuasion:religpew5
                                        -0.437361
                                                    0.527060 -0.8298
                                                    0.790901 1.1707
## Persuasion:religpew6
                                         0.925932
## Persuasion:religpew7
                                         0.792103
                                                    0.485794 1.6305
## Persuasion:religpew9
                                         0.729439
                                                    0.382411 1.9075
## Persuasion:religpew10
                                         0.235126
                                                    0.487933 0.4819
## Persuasion:religpew11
                                         0.110015
                                                    0.304609 0.3612
## Persuasion:religpew12
                                         0.034481
                                                    0.462351 0.0746
## Persuasion:partyid3_namesIndependent 0.238993
                                                    0.251258 0.9512
## Persuasion:partyid3_namesNot Sure
                                        -0.269310
                                                    0.482919 - 0.5577
## Persuasion:partyid3_namesOther
                                                    0.524854 -2.6536
                                        -1.392763
## Persuasion:partyid3_namesRepublican -0.068230
                                                    0.255533 -0.2670
                                                    0.129407 0.8336
## Persuasion:ethnocentric1
                                         0.107876
##
                                         Pr(>|t|)
## (Intercept)
                                        < 2.2e-16 ***
## Persuasion
                                        0.0705171
## sex
                                        0.4364202
## birthyr
                                        0.3182526
## immigrant2
                                        0.0223902 *
## educ
                                        0.1013135
## religpew2
                                        0.3944533
## religpew3
                                        0.3690172
```

```
## religpew4
                                         0.0970228
## religpew5
                                         0.3385351
## religpew6
                                         0.9827850
## religpew7
                                         0.3705659
## religpew8
                                         6.766e-15 ***
## religpew9
                                         0.6584180
## religpew10
                                         0.3252638
## religpew11
                                         0.4326123
## religpew12
                                         0.0157518 *
## partyid3_namesIndependent
                                         1.724e-09
## partyid3_namesNot Sure
                                         0.1344052
## partyid3_namesOther
                                         0.3432492
## partyid3_namesRepublican
                                         4.885e-12 ***
                                         0.0004287 ***
## ethnocentric1
## Persuasion:sex
                                         0.5299419
## Persuasion:birthyr
                                         0.1390226
## Persuasion:immigrant2
                                         0.1908030
## Persuasion:educ
                                         0.4088720
## Persuasion:religpew2
                                         0.1753055
## Persuasion:religpew3
                                         0.1415226
## Persuasion:religpew4
                                         0.7712817
## Persuasion:religpew5
                                         0.4066638
## Persuasion:religpew6
                                         0.2417332
## Persuasion:religpew7
                                         0.1030184
## Persuasion:religpew9
                                         0.0564854
## Persuasion:religpew10
                                         0.6298996
## Persuasion:religpew11
                                         0.7179813
## Persuasion:religpew12
                                         0.9405530
## Persuasion:partyid3_namesIndependent 0.3415319
## Persuasion:partyid3_namesNot Sure
                                         0.5770804
## Persuasion:partyid3_namesOther
                                         0.0079750 **
## Persuasion:partyid3_namesRepublican
                                         0.7894657
## Persuasion:ethnocentric1
                                         0.4045125
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of persuasion on Y2; with weights however there is a slightly negative of persuasion on Y2: -0.531909, with pvalue=0.0705171. This doesn't pass the Bonferonni multiple comparisons test (which requires passing 0.05/8=0.00625 pvalue).

H2a: (Empathy effect: letter)

Respondents receiving the empathy prime will be more likely than those in the control group to send an anonymous letter to the next President of the U.S. in support of resettling refugees.

```
##
## t test of coefficients:
##
##
                                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                          0.0330859 4.8865 1.120e-06
                                 0.1616726
## Empathy
                                 0.1861761
                                          0.0490521 3.7955 0.0001524
## sex
                                 0.0104277
                                          0.0124499 -1.6307 0.1031358
## birthyr
                                -0.0203018
## immigrant2
                                -0.0018712
                                          0.0259055 -0.0722 0.9424256
                                          0.0133496 4.9765 7.109e-07
## educ
                                 0.0664338
## religpew2
                                 0.0815543
                                          0.0342484 2.3813 0.0173597
## religpew3
```

```
0.0523919 0.1048293 0.4998 0.6172906
## religpew4
                               ## religpew5
                               -0.0329157 0.0572162 -0.5753 0.5651711
## religpew6
## religpew7
                               ## religpew8
                               -0.0700216 0.0310291 -2.2566 0.0241529
                               0.1345114 0.0620412 2.1681 0.0302849
## religpew9
## religpew10
                               0.1449544 0.0545298 2.6583 0.0079258
## religpew11
                               0.0303854 0.0302881 1.0032 0.3158979
## religpew12
                               0.1271551 0.0599481 2.1211 0.0340541
## partyid3_namesIndependent
                               -0.0196249 0.0312989 -0.6270 0.5307290
                               ## partyid3_namesNot Sure
## partyid3_namesOther
                               ## partyid3_namesRepublican
                               ## ethnocentric1
                               -0.0595751 0.0119239 -4.9963 6.425e-07
                               ## Empathy:sex
## Empathy:birthyr
                               0.0255467 0.0186254 1.3716 0.1703615
                               ## Empathy:immigrant2
## Empathy:educ
                               -0.0421796 0.0191929 -2.1977 0.0281025
## Empathy:religpew2
                              -0.1034190 0.0485392 -2.1306 0.0332583
## Empathy:religpew3
                               0.1051420 0.1495325 0.7031 0.4820628
                               ## Empathy:religpew4
## Empathy:religpew5
                              -0.0165782 0.1273826 -0.1301 0.8964664
                               0.0012957 0.1447836 0.0089 0.9928605
## Empathy:religpew6
## Empathy:religpew7
                               0.1357664 0.2180170 0.6227 0.5335407
## Empathy:religpew8
                               0.2278384 0.2995814 0.7605 0.4470443
                               0.0372005 0.0906432 0.4104 0.6815584
## Empathy:religpew9
## Empathy:religpew10
                               -0.1017924 0.0850621 -1.1967 0.2315913
                               -0.0654831 0.0464876 -1.4086 0.1591262
## Empathy:religpew11
## Empathy:religpew12
                               ## Empathy:partyid3_namesIndependent -0.1142824 0.0455344 -2.5098 0.0121691
## Empathy:partyid3_namesNot Sure
                               -0.1361780 0.0631218 -2.1574 0.0311109
## Empathy:partyid3_namesOther
                               0.3225680 0.3021815 1.0675 0.2859088
## Empathy:partyid3_namesRepublican -0.0690863 0.0417854 -1.6534 0.0984362
## Empathy:ethnocentric1
                               ##
## (Intercept)
                               ***
## Empathy
                               ***
## sex
## birthyr
## immigrant2
## educ
                               ***
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3 namesNot Sure
## partyid3 namesOther
                               ***
## partyid3_namesRepublican
## ethnocentric1
                               ***
```

```
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent *
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## t test of coefficients:
##
##
                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                0.1424016  0.0565431  2.5185  0.011875
## Empathy
## sex
                               0.0030991
                                        0.0151157 0.2050
                                                         0.837576
                               -0.0184167 0.0159795 -1.1525
## birthyr
                                                         0.249264
## immigrant2
                               0.0222696 0.0304145 0.7322 0.464141
## educ
                               0.0640497
                                         0.0146946 4.3587 1.384e-05
## religpew2
                               0.1344210 0.0453979 2.9610 0.003108
## religpew3
                                0.0520027 0.0980622 0.5303 0.595969
                               0.1005414 0.1192568 0.8431 0.399306
## religpew4
                               ## religpew5
                               -0.0270364 0.0500643 -0.5400 0.589243
## religpew6
## religpew7
                               ## religpew8
                               0.1292752 0.0691171 1.8704
## religpew9
                                                         0.061597
                               0.1420860 0.0571350 2.4868 0.012980
## religpew10
                               0.0664226 0.0398199 1.6681
## religpew11
                                                         0.095479
                               0.1684463 0.0990955 1.6998
## religpew12
                                                         0.089338
                               ## partyid3_namesIndependent
                                                         0.290975
                               ## partyid3_namesNot Sure
## partyid3_namesOther
                               ## partyid3_namesRepublican
## ethnocentric1
                               -0.0427666
                                        0.0138858 -3.0799
                                                        0.002103
## Empathy:sex
                               -0.0156333 0.0224492 -0.6964
                                                         0.486280
## Empathy:birthyr
                               0.0158958 0.0244781 0.6494
                                                        0.516171
## Empathy:immigrant2
                               -0.0500102 0.0461578 -1.0835
                                                        0.278752
                               -0.0324998 0.0224747 -1.4461
## Empathy:educ
                                                        0.148337
## Empathy:religpew2
                               -0.1505180 0.0622940 -2.4163 0.015782
                               0.1007248 0.1781494 0.5654 0.571877
## Empathy:religpew3
## Empathy:religpew4
                               -0.2452210 0.1317530 -1.8612 0.062880
## Empathy:religpew5
```

```
-0.0862156 0.1054682 -0.8175 0.413779
## Empathy:religpew6
                                     0.2690904 0.1802227 1.4931 0.135591
## Empathy:religpew7
                                     0.2372063 0.3164420 0.7496 0.453593
## Empathy:religpew8
## Empathy:religpew9
                                     0.0958366 0.1170950 0.8185 0.413210
## Empathy:religpew10
                                     -0.0749092 0.0909320 -0.8238 0.410168
                                     -0.0965331 0.0604612 -1.5966 0.110532
## Empathy:religpew11
## Empathy:religpew12
                                     -0.0991985 0.1232118 -0.8051 0.420868
## Empathy:partyid3 namesIndependent -0.0308343 0.0586801 -0.5255 0.599327
## Empathy:partyid3_namesNot Sure
                                     -0.0455205 0.0699884 -0.6504 0.515519
                                      0.4606632 0.3204808 1.4374 0.150779
## Empathy:partyid3_namesOther
                                      0.0108588 0.0529462 0.2051 0.837525
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
                                     -0.0428561 0.0229660 -1.8661 0.062198
##
## (Intercept)
                                     ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
                                     ***
## religpew2
                                     **
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                                     ***
## ethnocentric1
                                     **
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Empathy effect without weights: 0.1861761, pvalue=0.0001524. This passes the Bonferonni multiple hypothesis corrections pvalue of 0.00625.

H2b: (Persuasion effect: letter)

Respondents receiving the persuasion prime will be more likely than those in the control group to send an anonymous letter to the next President of the U.S. in support of resettling refugees.

```
## t test of coefficients:
##
##
                                     Estimate Std. Error t value
## (Intercept)
                                   0.16167258 0.03308586 4.8865
## Persuasion
                                   0.05635772 0.04703949 1.1981
                                   0.01042774 0.01199164 0.8696
## sex
## birthyr
                                   -0.02030180 0.01244985 -1.6307
                                   -0.00187120 0.02590547 -0.0722
## immigrant2
## educ
                                   0.06643384 0.01334963 4.9765
## religpew2
                                   0.08155427 0.03424845
                                                        2.3813
## religpew3
                                   0.01780919 0.06890072 0.2585
## religpew4
                                   0.05239186 0.10482925 0.4998
## religpew5
                                   0.12158939 0.08599578 1.4139
## religpew6
                                   ## religpew7
                                   0.12730381 0.15435901 0.8247
## religpew8
                                   -0.07002157 0.03102911 -2.2566
## religpew9
                                   0.13451144 0.06204118 2.1681
## religpew10
                                   ## religpew11
                                   0.03038536 0.03028815 1.0032
## religpew12
                                   0.12715505 0.05994806 2.1211
## partyid3_namesIndependent
                                   -0.01962494 0.03129886 -0.6270
## partyid3_namesNot Sure
                                   ## partyid3_namesOther
                                   ## partyid3_namesRepublican
                                   ## ethnocentric1
                                   0.01719681 -0.3958
## Persuasion:sex
                                   -0.00680711
## Persuasion:birthyr
                                   0.03675022 0.01749149 2.1010
## Persuasion:immigrant2
                                   0.03036448 0.03701723 0.8203
## Persuasion:educ
                                   ## Persuasion:religpew2
                                   -0.08330470 0.04837300 -1.7221
## Persuasion:religpew3
                                   0.04163635 0.16159869 0.2577
## Persuasion:religpew4
                                   -0.10695694 0.16425336 -0.6512
## Persuasion:religpew5
                                   ## Persuasion:religpew6
                                   -0.03711872  0.10006114  -0.3710
## Persuasion:religpew7
                                   0.05777950 0.19734197 0.2928
                                   -0.06740279 0.08470420 -0.7957
## Persuasion:religpew9
## Persuasion:religpew10
                                   -0.12010810 0.08269898 -1.4524
## Persuasion:religpew11
                                   ## Persuasion:religpew12
                                   -0.03611766 0.08792546 -0.4108
## Persuasion:partyid3_namesIndependent -0.07937493 0.04353175 -1.8234
## Persuasion:partyid3_namesNot Sure
                                              0.05918503 -0.9171
                                   -0.05427569
## Persuasion:partyid3_namesOther
                                   0.11307469 0.12312401 0.9184
## Persuasion:partyid3_namesRepublican
                                  -0.02391951 0.03883851 -0.6159
## Persuasion:ethnocentric1
                                   -0.00030604 0.01672988 -0.0183
##
                                   Pr(>|t|)
## (Intercept)
                                   1.120e-06 ***
## Persuasion
                                   0.2310419
## sex
                                   0.3846465
```

```
0.1031357
## birthyr
                                        0.9424256
## immigrant2
## educ
                                        7.109e-07 ***
## religpew2
                                        0.0173596 *
## religpew3
                                        0.7960697
## religpew4
                                        0.6172905
## religpew5
                                        0.1575684
## religpew6
                                        0.5651711
## religpew7
                                        0.4096393
## religpew8
                                        0.0241528 *
## religpew9
                                        0.0302848 *
## religpew10
                                        0.0079257 **
## religpew11
                                        0.3158978
## religpew12
                                        0.0340540 *
## partyid3_namesIndependent
                                        0.5307289
## partyid3_namesNot Sure
                                        0.0327518 *
## partyid3_namesOther
                                        0.0001034 ***
## partyid3_namesRepublican
                                        7.500e-07 ***
## ethnocentric1
                                        6.424e-07 ***
## Persuasion:sex
                                        0.6922742
## Persuasion:birthyr
                                        0.0357800 *
## Persuasion:immigrant2
                                        0.4121679
## Persuasion:educ
                                        0.3283182
## Persuasion:religpew2
                                        0.0852214
## Persuasion:religpew3
                                        0.7967050
## Persuasion:religpew4
                                        0.5150215
## Persuasion:religpew5
                                        0.2580748
## Persuasion:religpew6
                                        0.7107117
## Persuasion:religpew7
                                        0.7697182
## Persuasion:religpew9
                                        0.4262887
## Persuasion:religpew10
                                        0.1465819
## Persuasion:religpew11
                                        0.1474220
## Persuasion:religpew12
                                        0.6812869
## Persuasion:partyid3_namesIndependent 0.0684154
## Persuasion:partyid3_namesNot Sure
                                        0.3592416
## Persuasion:partyid3_namesOther
                                        0.3585456
## Persuasion:partyid3 namesRepublican 0.5380593
## Persuasion:ethnocentric1
                                        0.9854072
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
                                          Estimate Std. Error t value
##
## (Intercept)
                                         0.1519913 0.0360279 4.2187
## Persuasion
                                         0.0071925 0.0496184 0.1450
                                         0.0030991 0.0151157 0.2050
## sex
## birthyr
                                        -0.0184167 0.0159795 -1.1525
## immigrant2
                                         0.0222696 0.0304145 0.7322
## educ
                                         0.0640497 0.0146946 4.3587
                                         0.1344210 0.0453979 2.9610
## religpew2
## religpew3
                                         0.0520027 0.0980622 0.5303
## religpew4
                                         0.1005414 0.1192568 0.8431
## religpew5
                                         0.1524394 0.0936811 1.6272
## religpew6
                                        -0.0270364 0.0500643 -0.5400
## religpew7
                                         0.0858293 0.1249810 0.6867
```

```
-0.0433314 0.0377397 -1.1482
## religpew8
                                       0.1292752 0.0691171 1.8704
## religpew9
## religpew10
                                       0.1420860 0.0571350 2.4868
## religpew11
                                       0.0664226 0.0398199 1.6681
## religpew12
                                       0.1684463 0.0990955 1.6998
## partyid3_namesIndependent
                                       ## partyid3_namesNot Sure
                                      -0.1061719 0.0480390 -2.2101
## partyid3 namesOther
                                      -0.2406893 0.0601086 -4.0042
## partyid3_namesRepublican
                                      -0.1736103 0.0367590 -4.7229
## ethnocentric1
                                       -0.0427666 0.0138858 -3.0799
## Persuasion:sex
                                      -0.0069668 0.0201297 -0.3461
## Persuasion:birthyr
                                       0.0216926 0.0211657 1.0249
## Persuasion:immigrant2
                                       0.0126466 0.0431505 0.2931
## Persuasion:educ
                                       -0.0113334 0.0203554 -0.5568
## Persuasion:religpew2
                                      -0.1076328 0.0623129 -1.7273
## Persuasion:religpew3
                                      -0.1790387 0.1566426 -1.1430
## Persuasion:religpew4
## Persuasion:religpew5
                                      -0.2061985 0.1079268 -1.9105
## Persuasion:religpew6
                                       0.0164345 0.0951488 0.1727
## Persuasion:religpew7
                                       0.0263007 0.1776760 0.1480
                                      -0.0654567 0.0929311 -0.7044
## Persuasion:religpew9
## Persuasion:religpew10
                                      -0.0336149 0.0997528 -0.3370
## Persuasion:religpew11
                                      ## Persuasion:religpew12
                                       -0.0179566 0.1256600 -0.1429
## Persuasion:partyid3 namesIndependent -0.0027738 0.0548732 -0.0505
## Persuasion:partyid3_namesNot Sure
                                       -0.0136986 0.0588850 -0.2326
## Persuasion:partyid3_namesOther
                                       0.1508695 0.0992324 1.5204
## Persuasion:partyid3_namesRepublican
                                       0.0570082 0.0478698 1.1909
## Persuasion:ethnocentric1
                                       -0.0175764 0.0187977 -0.9350
##
                                       Pr(>|t|)
## (Intercept)
                                       2.582e-05 ***
## Persuasion
                                       0.884763
## sex
                                       0.837576
## birthyr
                                       0.249264
## immigrant2
                                       0.464141
## educ
                                       1.384e-05 ***
## religpew2
                                       0.003108 **
## religpew3
                                       0.595969
## religpew4
                                       0.399306
## religpew5
                                       0.103870
## religpew6
                                       0.589243
## religpew7
                                       0.492338
## religpew8
                                       0.251056
## religpew9
                                       0.061597
## religpew10
                                       0.012980 *
## religpew11
                                       0.095479
## religpew12
                                       0.089338
## partyid3_namesIndependent
                                       0.290975
## partyid3_namesNot Sure
                                       0.027225 *
## partyid3_namesOther
                                       6.481e-05 ***
## partyid3_namesRepublican
                                       2.509e-06 ***
## ethnocentric1
                                       0.002103 **
## Persuasion:sex
                                       0.729311
## Persuasion:birthyr
                                       0.305554
## Persuasion:immigrant2
                                       0.769494
## Persuasion:educ
                                       0.577750
## Persuasion:religpew2
                                       0.084290
```

```
## Persuasion:religpew3
                                         0.633137
## Persuasion:religpew4
                                         0.253204
## Persuasion:religpew5
                                         0.056226
## Persuasion:religpew6
                                         0.862888
## Persuasion:religpew7
                                         0.882339
## Persuasion:religpew9
                                         0.481304
                                         0.736171
## Persuasion:religpew10
## Persuasion:religpew11
                                         0.018757 *
## Persuasion:religpew12
                                         0.886387
## Persuasion:partyid3_namesIndependent
                                         0.959691
## Persuasion:partyid3_namesNot Sure
                                         0.816073
## Persuasion:partyid3_namesOther
                                         0.128599
## Persuasion:partyid3_namesRepublican
                                         0.233854
## Persuasion:ethnocentric1
                                         0.349902
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of persuasion on Y6.

H3a: (Long term empathy effect: score)

The empathy prime effect on improving scores given to refugee profiles may degrade over time, but will persist. We use the ControlEmpathy.data.y2 dataset, restricted to only individuals who answered the dependent variable questions in Wave 2 (Treatment_Group==2 or Treatment_Group==4).

```
## t test of coefficients:
##
##
                              Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             5.0599005 0.1479781 34.1936 < 2.2e-16
## Empathy
                             0.0021346  0.1804484  0.0118  0.9905621
## sex
                            ## birthyr
## immigrant2
                            ## educ
                             ## religpew2
## religpew3
                             0.0825321 0.3982781 0.2072 0.8358401
                             ## religpew4
## religpew5
                             ## religpew6
                             1.9667475  0.4217856  4.6629  3.155e-06
## religpew7
                             0.3174850 0.6665710 0.4763 0.6338733
## religpew8
                             1.0067798  0.2033333  4.9514  7.481e-07
                             0.7803279  0.2324334  3.3572  0.0007901
## religpew9
## religpew10
                             0.5150772  0.2474405  2.0816  0.0374007
## religpew11
                             0.2453932  0.1640766  1.4956  0.1347868
                             ## religpew12
## partyid3_namesIndependent
                            -0.9370274 0.1368953 -6.8448 8.072e-12
## partyid3_namesNot Sure
                            -1.0829741 0.2628112 -4.1207 3.805e-05
## partyid3_namesOther
                            -1.2727445 0.4984019 -2.5537 0.0106737
                            ## partyid3_namesRepublican
## ethnocentric1
                            -0.4795740 0.0782862 -6.1259 9.332e-10
## Empathy:sex
                             0.1264521 0.0852562 1.4832 0.1380500
## Empathy:birthyr
## Empathy:educ
                            -0.0621191
                                     0.0822445 -0.7553 0.4500870
                                     0.2218893 1.2506 0.2111222
## Empathy:religpew2
                            0.2774859
## Empathy:religpew3
                            0.6868256  0.5472739  1.2550  0.2095081
## Empathy:religpew4
                            -0.6737074 0.9361355 -0.7197 0.4717447
```

```
-0.2195785 0.5848266 -0.3755 0.7073264
## Empathy:religpew5
                                 -1.5163969 0.8470203 -1.7903 0.0734383
## Empathy:religpew6
                                 0.4201044 0.8238551 0.5099 0.6101144
## Empathy:religpew7
## Empathy:religpew8
                                 0.7326961 0.2513612 2.9149 0.0035652
## Empathy:religpew9
                                 0.0500214 0.3390016 0.1476 0.8826966
## Empathy:religpew10
## Empathy:religpew11
                                 ## Empathy:religpew12
                                 -0.2897961 0.3521663 -0.8229 0.4105855
## Empathy:partyid3_namesIndependent 0.0170001 0.1952559 0.0871 0.9306211
                                  ## Empathy:partyid3_namesNot Sure
                                  ## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
                                  0.0642351 0.1023981 0.6273 0.5304715
## Empathy:ethnocentric1
##
## (Intercept)
                                 ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
                                 ***
## religpew7
## religpew8
                                 ***
## religpew9
                                 ***
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                 ***
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                                 ***
## ethnocentric1
                                 ***
## Empathy:sex
## Empathy:birthyr
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
## t test of coefficients:
##
##
                                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                   5.2034066 0.1915622 27.1630 < 2.2e-16
                                  -0.2184241 0.2297125 -0.9509 0.341698
## Empathy
## sex
                                   0.0145116 0.0764153 0.1899
                                                               0.849388
## birthyr
                                  -0.0236031 0.0803172 -0.2939 0.768860
## immigrant2
                                  -0.1035781 0.1171245 -0.8843 0.376532
                                   0.1254090 0.0704683 1.7797
## educ
                                                               0.075161
                                  ## religpew2
## religpew3
                                   0.4705359 0.3916792 1.2013
                                                              0.229650
                                   0.0566014 0.6660385 0.0850
## religpew4
                                                               0.932277
## religpew5
                                  -0.2152290 0.5803491 -0.3709
                                                               0.710748
                                   1.8263113 0.4215935 4.3319 1.492e-05
## religpew6
## religpew7
                                   0.2124246 0.5448942 0.3898
                                                              0.696658
## religpew8
                                   0.7840948 0.3017299 2.5987
                                                              0.009371
                                   0.6752730 0.2606559 2.5907
## religpew9
                                                              0.009592
## religpew10
                                   0.3990780 0.2763488 1.4441 0.148737
## religpew11
                                   0.2167432 0.2093028 1.0355
                                                              0.300436
## religpew12
                                  ## partyid3_namesIndependent
                                  -0.9838322 0.1792844 -5.4875 4.168e-08
                                  -1.0440350 0.3387610 -3.0819 0.002062
## partyid3_namesNot Sure
## partyid3_namesOther
                                  -1.4688895 0.4469837 -3.2862 0.001019
## partyid3 namesRepublican
                                  -1.4314366 0.1865913 -7.6715 1.847e-14
                                  ## ethnocentric1
## Empathy:sex
                                  0.0620408 0.1035153 0.5993 0.548959
## Empathy:birthyr
                                  0.2050870 0.1031244 1.9887
                                                               0.046756
## Empathy:educ
                                  -0.0091333 0.1093932 -0.0835
                                                               0.933463
                                             0.2665043 2.0882
## Empathy:religpew2
                                  0.5565155
                                                               0.036803
                                  0.1185280
                                             0.4770193 0.2485
## Empathy:religpew3
                                                               0.803771
                                             0.8524621 -0.6065
## Empathy:religpew4
                                  -0.5170077
                                                               0.544204
## Empathy:religpew5
                                   0.4831180
                                             0.7438358 0.6495
                                                               0.516032
                                  -0.8817733 0.5048561 -1.7466
## Empathy:religpew6
                                                               0.080738
## Empathy:religpew7
                                  0.7742789 0.7171311 1.0797
                                                               0.280305
## Empathy:religpew8
                                  1.1041159 0.3524824 3.1324 0.001738
                                  0.0821466 0.3784771 0.2170
## Empathy:religpew9
                                                               0.828177
## Empathy:religpew10
                                  ## Empathy:religpew11
                                  -0.2858344 0.2821874 -1.0129
                                                              0.311119
                                   0.1008610 0.5963777 0.1691 0.865703
## Empathy:religpew12
## Empathy:partyid3_namesIndependent 0.1729528 0.2396421 0.7217
                                                               0.470487
## Empathy:partyid3 namesNot Sure
                                  -0.2643149 0.4721106 -0.5599 0.575588
## Empathy:partyid3_namesOther
                                   0.8649340 1.0054776 0.8602
                                                               0.389686
## Empathy:partyid3_namesRepublican
                                   0.3943319 0.2584749 1.5256
                                                               0.127136
## Empathy:ethnocentric1
                                   0.1077254 0.1272400 0.8466 0.397220
##
## (Intercept)
                                  ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
                                  ***
```

```
## religpew7
## religpew8
                                      **
## religpew9
                                      **
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                      ***
## partyid3 namesNot Sure
                                      **
## partyid3_namesOther
                                      **
## partyid3_namesRepublican
                                      ***
## ethnocentric1
                                      ***
## Empathy:sex
## Empathy:birthyr
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
                                      **
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
No long-term empathy effect on Y2.
```

H3b: (Long term persuasion effect: score)

The persuasion effect on improving scores given to refugee profiles may degrade over time, but will persist. We use the ControlPersuasion.data.y2 dataset, restricted to only individuals who answered the dependent variable questions in Wave 2 (Treatment_Group==2 or Treatment_Group==6).

```
##
## t test of coefficients:
##
                                         Estimate Std. Error t value
## (Intercept)
                                         5.045457 0.164058 30.7540
## Persuasion
                                                   0.220435 0.8402
                                         0.185213
## sex
                                        -0.049447 0.056595 -0.8737
## birthyr
                                         0.028943
                                                    0.061647 0.4695
## immigrant2
                                                    0.124681 -1.3201
                                        -0.164587
## educ
                                         0.161053
                                                    0.055879 2.8822
## religpew2
                                        -0.104880
                                                    0.163227 -0.6425
## religpew3
                                         0.087525
                                                    0.397858 0.2200
## religpew4
                                         0.165673
                                                    0.649994 0.2549
## religpew5
                                         0.099962
                                                    0.424857 0.2353
## religpew6
                                         1.968089
                                                    0.420888 4.6760
## religpew7
                                         0.320838
                                                    0.667187 0.4809
```

```
0.207443 4.8773
## religpew8
                                         1.011767
                                                     0.232702 3.3641
## religpew9
                                         0.782839
## religpew10
                                         0.518597
                                                     0.247770 2.0931
## religpew11
                                         0.246366
                                                     0.164358 1.4990
## religpew12
                                         0.314941
                                                     0.233476 1.3489
## partyid3_namesIndependent
                                         -0.937746
                                                     0.136996 -6.8451
## partyid3_namesNot Sure
                                                     0.262975 -4.1146
                                        -1.082027
## partyid3 namesOther
                                        -1.274383
                                                     0.499709 - 2.5502
## partyid3_namesRepublican
                                        -1.342462
                                                     0.153826 -8.7272
## ethnocentric1
                                         -0.479541
                                                     0.078314 - 6.1233
## Persuasion:sex
                                                     0.081802 -1.1300
                                        -0.092440
## Persuasion:birthyr
                                         0.268419
                                                     0.085007 3.1576
## Persuasion:immigrant2
                                        -0.167993
                                                     0.173828 -0.9664
## Persuasion:educ
                                         -0.055023
                                                     0.079291 -0.6939
## Persuasion:religpew2
                                         0.142997
                                                     0.230626 0.6200
## Persuasion:religpew3
                                         0.134245
                                                     0.478865 0.2803
## Persuasion:religpew4
                                         0.861742
                                                     0.941272 0.9155
## Persuasion:religpew5
                                        -0.111342
                                                     0.566890 -0.1964
## Persuasion:religpew6
                                        -0.408074
                                                     0.546288 -0.7470
## Persuasion:religpew7
                                         0.034162
                                                     0.843516 0.0405
                                                     0.319459 1.0847
## Persuasion:religpew8
                                         0.346503
## Persuasion:religpew9
                                        -0.503723
                                                     0.357230 -1.4101
## Persuasion:religpew10
                                        -0.317253
                                                     0.336215 -0.9436
## Persuasion:religpew11
                                         -0.322185
                                                     0.239533 -1.3451
## Persuasion:religpew12
                                         -0.522985
                                                     0.360616 -1.4503
## Persuasion:partyid3_namesIndependent  0.183304
                                                     0.197208 0.9295
## Persuasion:partyid3_namesNot Sure
                                         0.115317
                                                     0.376883 0.3060
## Persuasion:partyid3_namesOther
                                         0.414627
                                                     0.672330 0.6167
## Persuasion:partyid3_namesRepublican
                                         0.090928
                                                     0.212155 0.4286
## Persuasion:ethnocentric1
                                         0.071998
                                                     0.101003 0.7128
##
                                         Pr(>|t|)
## (Intercept)
                                         < 2.2e-16 ***
## Persuasion
                                         0.4008051
## sex
                                         0.3822983
## birthyr
                                         0.6387242
## immigrant2
                                         0.1868444
## educ
                                         0.0039573 **
## religpew2
                                         0.5205365
## religpew3
                                         0.8258832
## religpew4
                                         0.7988179
## religpew5
                                         0.8139921
## religpew6
                                         2.960e-06 ***
## religpew7
                                         0.6306106
## religpew8
                                         1.091e-06 ***
## religpew9
                                         0.0007705 ***
## religpew10
                                         0.0363671 *
## religpew11
                                         0.1339126
                                         0.1773904
## religpew12
## partyid3_namesIndependent
                                         8.061e-12 ***
## partyid3_namesNot Sure
                                         3.908e-05 ***
## partyid3_namesOther
                                        0.0107784 *
## partyid3_namesRepublican
                                         < 2.2e-16 ***
## ethnocentric1
                                        9.483e-10 ***
## Persuasion:sex
                                        0.2584842
## Persuasion:birthyr
                                        0.0015951 **
## Persuasion:immigrant2
                                        0.3338485
## Persuasion:educ
                                         0.4877356
```

```
## Persuasion:religpew2
                                        0.5352447
## Persuasion:religpew3
                                        0.7792221
## Persuasion:religpew4
                                        0.3599455
## Persuasion:religpew5
                                        0.8442942
## Persuasion:religpew6
                                        0.4550836
## Persuasion:religpew7
                                        0.9676955
## Persuasion:religpew8
                                        0.2780979
## Persuasion:religpew9
                                        0.1585457
## Persuasion:religpew10
                                        0.3453942
## Persuasion:religpew11
                                        0.1786363
## Persuasion:religpew12
                                        0.1470168
## Persuasion:partyid3_namesIndependent 0.3526534
## Persuasion:partyid3_namesNot Sure
                                         0.7596286
## Persuasion:partyid3_namesOther
                                         0.5374444
## Persuasion:partyid3_namesRepublican 0.6682298
## Persuasion:ethnocentric1
                                         0.4759621
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
##
                                         Estimate Std. Error t value
## (Intercept)
                                                    0.218467 23.9111
                                         5.223805
## Persuasion
                                                    0.302973 0.2893
                                         0.087658
## sex
                                         0.014570
                                                    0.076447 0.1906
## birthyr
                                        -0.022527
                                                    0.079959 -0.2817
## immigrant2
                                        -0.131690
                                                    0.182590 -0.7212
                                                    0.070461 1.7830
## educ
                                         0.125630
## religpew2
                                         -0.320421
                                                     0.206208 -1.5539
## religpew3
                                         0.462666
                                                    0.396176 1.1678
                                         0.044306
## religpew4
                                                     0.678359 0.0653
## religpew5
                                         -0.227953
                                                     0.585899 -0.3891
## religpew6
                                         1.819413
                                                     0.427880 4.2522
## religpew7
                                         0.207215
                                                     0.546082 0.3795
## religpew8
                                                    0.299092 2.6204
                                         0.783752
## religpew9
                                         0.671228
                                                     0.262244 2.5595
## religpew10
                                         0.392838
                                                    0.279214 1.4069
## religpew11
                                         0.217509
                                                    0.208690 1.0423
## religpew12
                                        -0.261547
                                                    0.370898 -0.7052
## partyid3_namesIndependent
                                                     0.181212 -5.4180
                                        -0.981812
## partyid3_namesNot Sure
                                        -1.044004
                                                    0.337490 -3.0934
## partyid3 namesOther
                                        -1.465992
                                                     0.445690 -3.2893
## partyid3_namesRepublican
                                        -1.429766
                                                     0.186730 -7.6569
## ethnocentric1
                                        -0.486508
                                                     0.095679 -5.0848
## Persuasion:sex
                                        -0.177913
                                                    0.113431 -1.5685
## Persuasion:birthyr
                                         0.351790
                                                     0.119198 2.9513
## Persuasion:immigrant2
                                        -0.313400
                                                     0.260063 - 1.2051
## Persuasion:educ
                                        -0.031645
                                                     0.102784 -0.3079
## Persuasion:religpew2
                                         0.341748
                                                     0.315406 1.0835
## Persuasion:religpew3
                                        -0.081683
                                                     0.525724 -0.1554
## Persuasion:religpew4
                                         0.813970
                                                     0.868351 0.9374
                                                    0.691149 0.1270
## Persuasion:religpew5
                                         0.087768
## Persuasion:religpew6
                                        -0.818835
                                                    0.621322 -1.3179
## Persuasion:religpew7
                                        -0.535634
                                                    0.842914 -0.6355
## Persuasion:religpew8
                                         0.297725
                                                     0.400752 0.7429
## Persuasion:religpew9
                                        -0.453543
                                                     0.434180 -1.0446
```

```
0.370011 -0.6635
## Persuasion:religpew10
                                         -0.245496
                                                     0.343200 -1.4023
## Persuasion:religpew11
                                         -0.481281
## Persuasion:religpew12
                                                     0.447050 -0.2276
                                         -0.101733
## Persuasion:partyid3_namesIndependent 0.542730
                                                     0.272913 1.9887
## Persuasion:partyid3_namesNot Sure
                                          0.579666
                                                     0.466942 1.2414
## Persuasion:partyid3_namesOther
                                          0.650707
                                                     0.684624 0.9505
## Persuasion:partyid3_namesRepublican
                                                     0.275680 0.7190
                                          0.198223
## Persuasion:ethnocentric1
                                          0.073589
                                                     0.129865 0.5667
##
                                          Pr(>|t|)
## (Intercept)
                                         < 2.2e-16 ***
## Persuasion
                                          0.772338
                                          0.848852
## birthyr
                                          0.778159
## immigrant2
                                          0.470780
## educ
                                          0.074619
## religpew2
                                          0.120245
## religpew3
                                          0.242902
## religpew4
                                          0.947925
## religpew5
                                          0.697235
## religpew6
                                         2.135e-05 ***
## religpew7
                                          0.704356
## religpew8
                                          0.008794 **
## religpew9
                                          0.010494 *
## religpew10
                                          0.159473
## religpew11
                                          0.297316
## religpew12
                                          0.480719
## partyid3_namesIndependent
                                         6.155e-08 ***
## partyid3_namesNot Sure
                                         0.001984 **
## partyid3_namesOther
                                         0.001008 **
## partyid3_namesRepublican
                                         2.069e-14 ***
## ethnocentric1
                                         3.742e-07 ***
## Persuasion:sex
                                         0.116800
## Persuasion:birthyr
                                          0.003171 **
## Persuasion:immigrant2
                                          0.228194
## Persuasion:educ
                                          0.758182
## Persuasion:religpew2
                                          0.278602
## Persuasion:religpew3
                                          0.876531
## Persuasion:religpew4
                                          0.348587
## Persuasion:religpew5
                                          0.898952
## Persuasion:religpew6
                                          0.187568
## Persuasion:religpew7
                                         0.525145
## Persuasion:religpew8
                                         0.457549
## Persuasion:religpew9
                                         0.296233
## Persuasion:religpew10
                                          0.507036
## Persuasion:religpew11
                                          0.160844
## Persuasion:religpew12
                                          0.819988
## Persuasion:partyid3_namesIndependent
                                          0.046765
## Persuasion:partyid3_namesNot Sure
                                          0.214482
## Persuasion:partyid3_namesOther
                                          0.341901
## Persuasion:partyid3_namesRepublican
                                          0.472136
## Persuasion:ethnocentric1
                                          0.570958
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No longterm persuasion effect on Y2.

H4a: (Long term empathy effect: letter)

The empathy prime effect on sending an anonymous letter to the next President of the U.S. in support of resettling refugees may degrade over time, but will persist. We use the ControlEmpathy.data dataset, restricted to only individuals who answered the dependent variable questions in Wave 2 (Treatment_Group==2 or Treatment_Group==4).

```
##
## t test of coefficients:
##
##
                                   Estimate Std. Error t value
                                 0.31182848 0.03541570 8.8048
## (Intercept)
                                 0.03259967 0.04431048 0.7357
## Empathy
## sex
                                 0.00383996 0.01268464 0.3027
## birthyr
                                ## immigrant2
                                -0.04130419 0.02037785 -2.0269
                                 0.04662389 0.01422915 3.2766
## educ
## religpew2
                                ## religpew3
                                -0.05647455 0.08175812 -0.6908
## religpew4
                                -0.12996881 0.09130908 -1.4234
## religpew5
                                 0.06539222 0.12393848 0.5276
## religpew6
                                 0.32439325 0.14777421
                                                      2.1952
## religpew7
                                 0.48018846 0.12437838
                                                      3.8607
## religpew8
                                 0.07033016 0.07360701 0.9555
## religpew9
                                 0.18899112  0.06633062  2.8492
## religpew10
                                 0.14321561
                                           0.07116514
                                                      2.0124
## religpew11
                                           0.03674095
                                 0.01305312
                                                      0.3553
## religpew12
                                 0.06538783 0.05197297 1.2581
## partyid3_namesIndependent
                                ## partyid3_namesNot Sure
                                -0.17912359
                                           0.05011884 -3.5740
## partyid3_namesOther
                                 0.07762475 0.14419807 0.5383
## partyid3 namesRepublican
                                ## ethnocentric1
                                -0.07783262 0.01355929 -5.7402
## Empathy:sex
                                 0.00454912 0.01816646 0.2504
## Empathy:birthyr
                                 0.03358215  0.01959325  1.7140
## Empathy:educ
                                 0.00045923 0.01963734 0.0234
                                 0.01016784 0.04656556 0.2184
## Empathy:religpew2
## Empathy:religpew3
                                 0.04810622 0.13442273 0.3579
## Empathy:religpew4
                                 0.31385453 0.17790247 1.7642
## Empathy:religpew5
                                -0.08042921 0.14887407 -0.5402
                                ## Empathy:religpew6
## Empathy:religpew7
                                -0.27361531 0.22795239 -1.2003
## Empathy:religpew8
                                -0.33555782 0.08184270 -4.1000
## Empathy:religpew9
                                ## Empathy:religpew10
                                -0.10868556 0.09556534 -1.1373
## Empathy:religpew11
                                ## Empathy:religpew12
                                ## Empathy:partyid3_namesIndependent 0.04399872 0.04819827 0.9129
## Empathy:partyid3 namesNot Sure
                                -0.07062185
                                           0.06434594 -1.0975
## Empathy:partyid3_namesOther
                                -0.12058074 0.19212628 -0.6276
## Empathy:partyid3 namesRepublican -0.00740744 0.04442992 -0.1667
## Empathy:ethnocentric1
                                ##
                                 Pr(>|t|)
## (Intercept)
                                < 2.2e-16 ***
## Empathy
                                0.4620052
                                0.7621352
## sex
                                0.0094558 **
## birthyr
                                0.0428216 *
## immigrant2
```

```
0.0010709 **
## educ
## religpew2
                                   0.4975068
## religpew3
                                   0.4898128
## religpew4
                                   0.1547993
## religpew5
                                   0.5978308
## religpew6
                                   0.0282798 *
## religpew7
                                   0.0001171 ***
## religpew8
                                   0.3394654
## religpew9
                                   0.0044335 **
## religpew10
                                   0.0443257 *
## religpew11
                                   0.7224266
## religpew12
                                   0.2085182
                                   4.662e-06 ***
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                   0.0003611 ***
## partyid3_namesOther
                                   0.5904240
## partyid3_namesRepublican
                                   6.739e-13 ***
                                   1.112e-08 ***
## ethnocentric1
## Empathy:sex
                                   0.8022971
## Empathy:birthyr
                                   0.0867113
## Empathy:educ
                                   0.9813453
## Empathy:religpew2
                                   0.8271776
## Empathy:religpew3
                                   0.7204816
## Empathy:religpew4
                                   0.0778728
## Empathy:religpew5
                                   0.5890931
## Empathy:religpew6
                                   0.2273774
## Empathy:religpew7
                                   0.2301776
## Empathy:religpew8
                                   4.319e-05 ***
## Empathy:religpew9
                                   0.2034354
## Empathy:religpew10
                                   0.2555717
## Empathy:religpew11
                                   0.2805891
## Empathy:religpew12
                                   0.8931586
## Empathy:partyid3_namesIndependent 0.3614365
## Empathy:partyid3_namesNot Sure
                                   0.2725583
## Empathy:partyid3_namesOther
                                   0.5303397
## Empathy:partyid3_namesRepublican 0.8676081
## Empathy:ethnocentric1
                                   0.8681455
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
                                      Estimate Std. Error t value
##
## (Intercept)
                                    0.32017081 0.05133112 6.2374
                                   -0.02409265 0.06011390 -0.4008
## Empathy
                                    0.00411188 0.01701054 0.2417
## sex
## birthyr
                                   -0.01498669 0.02717770 -0.5514
## immigrant2
## educ
                                    0.04408291 0.01789436 2.4635
## religpew2
                                   -0.01990024 0.04380570 -0.4543
## religpew3
                                   ## religpew4
                                    0.05359842 0.14124736 0.3795
## religpew5
## religpew6
                                    0.40164440 0.13990435 2.8708
## religpew7
                                    0.39419899 0.15499458 2.5433
## religpew8
                                    0.00986587 0.09412486 0.1048
## religpew9
                                    0.14218121 0.07571601 1.8778
```

```
0.15221284 0.10162374 1.4978
## religpew10
                                   -0.00900132 0.04979680 -0.1808
## religpew11
                                   -0.01388624 0.05335231 -0.2603
## religpew12
## partyid3_namesIndependent
                                   -0.16261400 0.04391225 -3.7032
## partyid3_namesNot Sure
                                   0.05712266 0.15958773 0.3579
## partyid3_namesOther
## partyid3_namesRepublican
                                  ## ethnocentric1
                                  -0.07793346  0.01683206  -4.6301
## Empathy:sex
                                   0.02291788 0.02373123 0.9657
## Empathy:birthyr
                                   0.04988930 0.02782230 1.7931
                                   0.01163965 0.02536696 0.4589
## Empathy:educ
## Empathy:religpew2
                                   0.07826307  0.06597281  1.1863
                                   0.05726405 0.11354128 0.5043
## Empathy:religpew3
## Empathy:religpew4
                                   0.42106712 0.18075999 2.3294
## Empathy:religpew5
                                   0.00040302 0.16178383 0.0025
## Empathy:religpew6
                                   ## Empathy:religpew7
## Empathy:religpew8
                                  -0.21103009 0.10482072 -2.0132
## Empathy:religpew9
                                  -0.02003024 0.11399012 -0.1757
## Empathy:religpew10
                                  -0.06385898 0.12611522 -0.5064
                                   0.01985681 0.06524193 0.3044
## Empathy:religpew11
## Empathy:religpew12
                                   0.05670663 0.09088296 0.6240
## Empathy:partyid3_namesIndependent 0.05830734 0.06262828 0.9310
## Empathy:partyid3_namesNot Sure
                                   -0.11989704 0.09278297 -1.2922
## Empathy:partyid3 namesOther
                                   0.01904726 0.05842093 0.3260
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
                                   0.00792006 0.02424428 0.3267
##
                                   Pr(>|t|)
## (Intercept)
                                   5.561e-10 ***
## Empathy
                                   0.6886283
                                   0.8090212
## sex
                                   0.0029854
## birthyr
## immigrant2
                                   0.5814068
## educ
                                   0.0138536
## religpew2
                                   0.6496803
## religpew3
                                   0.4989419
## religpew4
                                   0.1603871
## religpew5
                                   0.7043885
## religpew6
                                   0.0041427 **
## religpew7
                                   0.0110658
                                   0.9165331
## religpew8
## religpew9
                                   0.0605708
## religpew10
                                   0.1343626
## religpew11
                                   0.8565760
## religpew12
                                   0.7946825
## partyid3_namesIndependent
                                   0.0002195 ***
                                   0.0548544
## partyid3_namesNot Sure
## partyid3_namesOther
                                   0.7204320
## partyid3_namesRepublican
                                   3.745e-08 ***
## ethnocentric1
                                   3.924e-06 ***
## Empathy:sex
                                   0.3343138
## Empathy:birthyr
                                   0.0731222
                                  0.6463982
## Empathy:educ
## Empathy:religpew2
                                  0.2356669
## Empathy:religpew3
                                  0.6140817
## Empathy:religpew4
                                  0.0199492
## Empathy:religpew5
                                   0.9980127
```

```
## Empathy:religpew6
                                     0.0059592 **
## Empathy:religpew7
                                     0.9790660
## Empathy:religpew8
                                     0.0442406 *
## Empathy:religpew9
                                     0.8605349
## Empathy:religpew10
                                     0.6126714
## Empathy:religpew11
                                     0.7608923
## Empathy:religpew12
                                     0.5327398
## Empathy:partyid3 namesIndependent 0.3519779
## Empathy:partyid3_namesNot Sure
                                     0.1964469
## Empathy:partyid3_namesOther
                                     0.8266366
## Empathy:partyid3_namesRepublican 0.7444368
## Empathy:ethnocentric1
                                     0.7439508
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No long-term empathy effect on Y6.

##

H4b: (Long term persuasion effect: letter)

The persuasion effect on sending an anonymous letter to the next President of the U.S. in support of resettling refugees may degrade over time, but will persist. We use the ControlPersuasion.data dataset, restricted to only individuals who answered the dependent variable questions in Wave 2 (Treatment_Group==2 or Treatment_Group==6).

```
## t test of coefficients:
##
##
                        Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                       ## sex
                       0.0030702 0.0063150 0.4862 0.6268677
## birthyr
                       -0.0147648 0.0067403 -2.1905 0.0285491 *
## immigrant2
                       ## educ
                       0.0466556 0.0068609 6.8002 1.219e-11 ***
## religpew2
                       0.0043429 0.0173630 0.2501 0.8025055
## religpew3
                       0.0077895 0.0484834 0.1607 0.8723673
## religpew4
                       0.0110289 0.0635042
                                        0.1737 0.8621331
## religpew5
                       0.0706203 0.0476170 1.4831 0.1381383
## religpew6
                       0.1184205 0.0787105 1.5045 0.1325393
                       0.2915672  0.0791092  3.6856  0.0002315 ***
## religpew7
## religpew8
                       0.0375459 0.1195756
                                        0.3140 0.7535448
## religpew9
                       0.1394290 0.0331137
                                        4.2106 2.609e-05 ***
## religpew10
                       0.0913202 0.0316021
                                        2.8897 0.0038794 **
## religpew11
                      -0.0082175 0.0168878 -0.4866 0.6265770
                       0.0786464 0.0288368
                                         2.7273 0.0064167 **
## religpew12
## partyid3_namesNot Sure
                      ## partyid3_namesOther
                       0.0290661 0.0858821
                                        0.3384 0.7350499
## partyid3 namesRepublican -0.2019256 0.0152419 -13.2480 < 2.2e-16 ***
## ethnocentric1
                       -0.0763197  0.0067539  -11.3001 < 2.2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
##
                        Estimate Std. Error t value Pr(>|t|)
                       ## (Intercept)
## sex
                       0.0042031 0.0084225
                                         0.4990 0.6177914
                       ## birthyr
```

```
## immigrant2
                            -0.0108373 0.0178459
                                                   -0.6073 0.5437087
                                        0.0085816
## educ
                             0.0500698
                                                    5.8345 5.873e-09 ***
## religpew2
                             0.0396529
                                        0.0245562
                                                    1.6148 0.1064471
## religpew3
                             0.0279064 0.0504831
                                                   0.5528 0.5804438
## religpew4
                             0.0252470 0.0657656
                                                   0.3839 0.7010798
## religpew5
                             0.0912895
                                        0.0509796
                                                    1.7907 0.0734250 .
## religpew6
                             0.0577841
                                        0.0762886
                                                    0.7574 0.4488361
## religpew7
                             0.2960087
                                        0.0887630
                                                    3.3348 0.0008622 ***
## religpew8
                             0.0391908 0.1124237
                                                    0.3486 0.7274109
## religpew9
                             0.1475713
                                        0.0426173
                                                    3.4627 0.0005410 ***
## religpew10
                             0.1131107
                                        0.0400702
                                                   2.8228 0.0047867 **
## religpew11
                             0.0062443
                                        0.0232339
                                                    0.2688 0.7881327
## religpew12
                             0.0481422
                                        0.0359672
                                                    1.3385 0.1808168
## partyid3_namesIndependent -0.0943570
                                        0.0225061
                                                   -4.1925 2.826e-05 ***
## partyid3_namesNot Sure
                            -0.1694059
                                        0.0316237
                                                   -5.3569 8.999e-08 ***
## partyid3_namesOther
                             0.0100322
                                        0.1351415
                                                    0.0742 0.9408277
                                        0.0198028 -10.3301 < 2.2e-16 ***
## partyid3_namesRepublican
                            -0.2045643
## ethnocentric1
                             -0.0693080
                                        0.0085763
                                                   -8.0813 8.677e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No long-term persuasion effect on Y6.

Secondary hypotheses: H5a - H6b

H5a: (Heterogeneous effect of empathy and Muslim: score)

The empathy prime interacted with a Muslim refugee profile will lead to higher admission scores on average than no treatment interacted with Muslim refugee profiles. We use the ControlEmpathy.data.y2 dataset, for wave 1.

```
##
## t test of coefficients:
##
##
                                        Estimate Std. Error t value
## (Intercept)
                                      5.49262106 0.15176936 36.1906
## Empathy
                                      0.03545397
                                                  0.18727475 0.1893
## muslim
                                     -0.24612988
                                                  0.07698534 -3.1971
## sex
                                      0.02674572
                                                  0.05576782
                                                              0.4796
## birthyr
                                      0.06561028 0.05455314 1.2027
                                                  0.08557069 -2.5783
## immigrant2
                                     -0.22062680
                                      0.15924133
                                                  0.05603252
                                                              2.8419
## educ
## religpew2
                                     -0.16100109
                                                  0.16967338 -0.9489
## religpew3
                                                 0.33340338
                                      0.00041213
## religpew4
                                      0.60919269
                                                  0.29358275
                                                              2.0750
## religpew5
                                                  0.28199526
                                      0.34882077
## religpew6
                                     -0.04770063
                                                  0.33320761 -0.1432
## religpew7
                                      0.33845917
                                                  0.38619129 0.8764
## religpew8
                                      1.98094261
                                                  0.17537527 11.2954
## religpew9
                                      0.33059854 0.22583721
                                                              1.4639
## religpew10
                                      0.45813709 0.21825003 2.0991
## religpew11
                                      0.03427389 0.16429508 0.2086
## religpew12
                                      0.64643298
                                                  0.24363731
                                                              2.6533
## partyid3_namesIndependent
                                     -0.89027398
                                                  0.13048163 -6.8230
## partyid3_namesNot Sure
                                     -0.82844532
                                                  0.23916575 -3.4639
## partyid3_namesOther
                                      0.62555616
                                                  0.41906822 1.4927
## partyid3_namesRepublican
                                     -1.17408506
                                                  0.14727546 -7.9720
## ethnocentric1
                                     -0.33711181 0.07523816 -4.4806
```

```
-0.04221601 0.10975542 -0.3846
## Empathy:muslim
                                   -0.02123255 0.07924915 -0.2679
## Empathy:sex
                                    0.15226896 0.07801526 1.9518
## Empathy:birthyr
## Empathy:educ
                                    0.02259223 0.07947021 0.2843
## Empathy:religpew2
                                   0.22484454 0.22779554 0.9870
                                    0.17245860 0.61165789 0.2820
## Empathy:religpew3
## Empathy:religpew4
                                   -1.71773790 0.85377987 -2.0119
## Empathy:religpew5
                                   -0.50250279   0.45170476   -1.1125
## Empathy:religpew6
                                    0.30208744 0.80096401 0.3772
## Empathy:religpew7
                                    0.65914165 0.44223823 1.4905
## Empathy:religpew8
                                   -1.25186976 0.51715979 -2.4207
## Empathy:religpew9
                                   ## Empathy:religpew10
## Empathy:religpew11
                                   -0.20158459 0.23269226 -0.8663
## Empathy:religpew12
                                   ## Empathy:partyid3_namesIndependent 0.36669207 0.18194639 2.0154
## Empathy:partyid3_namesNot Sure
                                    ## Empathy:partyid3_namesOther
                                   -2.01261773 1.70680307 -1.1792
## Empathy:partyid3_namesRepublican -0.06232993 0.21423687 -0.2909
## Empathy:ethnocentric1
                                   -0.04044446 0.10128293 -0.3993
##
                                    Pr(>|t|)
## (Intercept)
                                   < 2.2e-16 ***
## Empathy
                                   0.8498493
## muslim
                                   0.0013922 **
## sex
                                   0.6315283
                                   0.2291244
## birthyr
## immigrant2
                                   0.0099420 **
## educ
                                   0.0044924 **
## religpew2
                                   0.3426987
## religpew3
                                   0.9990137
                                   0.0380076 *
## religpew4
## religpew5
                                   0.2161238
## religpew6
                                   0.8861698
## religpew7
                                   0.3808306
## religpew8
                                   < 2.2e-16 ***
## religpew9
                                   0.1432560
## religpew10
                                   0.0358279 *
## religpew11
                                   0.8347553
## religpew12
                                   0.0079836 **
## partyid3_namesIndependent
                                   9.396e-12 ***
## partyid3_namesNot Sure
                                   0.0005345 ***
## partyid3 namesOther
                                   0.1355369
## partyid3_namesRepublican
                                   1.719e-15 ***
## ethnocentric1
                                   7.520e-06 ***
## Empathy:muslim
                                   0.7005139
## Empathy:sex
                                   0.7887649
                                   0.0509897
## Empathy:birthyr
                                   0.7761970
## Empathy:educ
## Empathy:religpew2
                                   0.3236426
## Empathy:religpew3
                                   0.7779852
## Empathy:religpew4
                                   0.0442531 *
## Empathy:religpew5
                                   0.2659659
## Empathy:religpew6
                                   0.7060660
## Empathy:religpew7
                                   0.1361307
## Empathy:religpew8
                                   0.0155087
## Empathy:religpew9
                                   0.2192455
## Empathy:religpew10
                                   0.2360589
```

H5b: (Heterogeneous effect of persuasion and Muslim: score)

No statistically significant effect of Empathy:muslim on Y2.

The persuasion treatment will improve scores for Muslim refugee profiles and will be correlated with higher admission scores than Muslim refugee profiles in the control. We use the ControlPersuasion.data.y2 dataset, for wave 1.

```
##
## t test of coefficients:
##
##
                                         Estimate Std. Error t value
## (Intercept)
                                        5.5339026 0.1652783 33.4823
## Persuasion
                                       -0.1855552 0.2303959 -0.8054
## muslim
                                        -0.2463912 0.0770188 -3.1991
## sex
                                        0.0264479 0.0557278 0.4746
                                        0.0684556 0.0547873 1.2495
## birthyr
                                       -0.2726412 0.1201158 -2.2698
## immigrant2
## educ
                                        0.1578620 0.0561464 2.8116
## religpew2
                                       -0.1763659 0.1721506 -1.0245
## religpew3
                                       -0.0055522 0.3324291 -0.0167
                                        0.5939501 0.2886493 2.0577
## religpew4
## religpew5
                                        0.3305599 0.2827653 1.1690
## religpew6
                                       -0.0667303 0.3390494 -0.1968
## religpew7
                                        0.3333949 0.3855013 0.8648
## religpew8
                                        1.9902752 0.1754391 11.3445
## religpew9
                                        0.3251940 0.2254404 1.4425
## religpew10
                                        0.4568581 0.2185861 2.0901
## religpew11
                                        0.0293770 0.1640492 0.1791
## religpew12
                                        0.6438742 0.2439332 2.6396
## partyid3_namesIndependent
                                       -0.8951692 0.1307299 -6.8475
## partyid3 namesNot Sure
                                       -0.8303275 0.2387280 -3.4781
## partyid3_namesOther
                                        0.6085794 0.4377631 1.3902
## partyid3 namesRepublican
                                       -1.1736949 0.1472479 -7.9709
## ethnocentric1
                                       -0.3372106 0.0751132 -4.4894
## Persuasion:muslim
                                        0.0445812 0.1111872 0.4010
## Persuasion:sex
                                       -0.0250555 0.0794284 -0.3154
## Persuasion:birthyr
                                        0.1632491 0.0750513 2.1752
## Persuasion:immigrant2
                                        0.1265768 0.1710410 0.7400
## Persuasion:educ
                                       -0.0217174 0.0796688 -0.2726
## Persuasion:religpew2
                                        0.2810272 0.2384593 1.1785
## Persuasion:religpew3
                                        0.4527709 0.5955628 0.7602
## Persuasion:religpew4
                                        0.0786755 0.6155145 0.1278
## Persuasion:religpew5
                                       -0.3275378   0.4591334   -0.7134
## Persuasion:religpew6
                                        0.9011468 0.6830682 1.3193
## Persuasion:religpew7
                                        0.5449743 0.5213328 1.0453
## Persuasion:religpew9
                                        0.2468318 0.3096481 0.7971
## Persuasion:religpew10
                                       -0.1110499 0.3195575 -0.3475
```

```
## Persuasion:religpew11
                                        -0.1203754 0.2344810 -0.5134
## Persuasion:religpew12
                                        -0.6083946 0.3822496 -1.5916
## Persuasion:partyid3 namesIndependent 0.0012544 0.1885793 0.0067
## Persuasion:partyid3_namesNot Sure
                                        ## Persuasion:partyid3_namesOther
                                        -1.7060601 0.6268586 -2.7216
## Persuasion:partyid3_namesRepublican -0.2494896 0.2126300 -1.1734
## Persuasion:ethnocentric1
                                         0.0128720 0.1041790 0.1236
##
                                         Pr(>|t|)
## (Intercept)
                                        < 2.2e-16 ***
## Persuasion
                                        0.4206210
## muslim
                                        0.0013825 **
                                        0.6350877
## sex
## birthyr
                                        0.2115168
## immigrant2
                                        0.0232383 *
## educ
                                        0.0049383 **
## religpew2
                                        0.3056288
## religpew3
                                        0.9866747
## religpew4
                                        0.0396442
## religpew5
                                        0.2424193
## religpew6
                                        0.8439754
## religpew7
                                        0.3871489
## religpew8
                                        < 2.2e-16 ***
## religpew9
                                        0.1491953
## religpew10
                                        0.0366358
## religpew11
                                        0.8578827
## religpew12
                                        0.0083136 **
## partyid3_namesIndependent
                                        7.927e-12 ***
                                        0.0005069 ***
## partyid3_namesNot Sure
## partyid3_namesOther
                                        0.1644961
## partyid3_namesRepublican
                                        1.735e-15 ***
## ethnocentric1
                                        7.218e-06 ***
## Persuasion:muslim
                                        0.6884604
## Persuasion:sex
                                        0.7524282
## Persuasion:birthyr
                                        0.0296393 *
## Persuasion:immigrant2
                                        0.4592933
## Persuasion:educ
                                        0.7851693
## Persuasion:religpew2
                                        0.2386184
## Persuasion:religpew3
                                        0.4471275
## Persuasion:religpew4
                                        0.8982932
## Persuasion:religpew5
                                        0.4756245
                                        0.1871092
## Persuasion:religpew6
## Persuasion:religpew7
                                        0.2958856
## Persuasion:religpew9
                                        0.4253895
## Persuasion:religpew10
                                        0.7282138
## Persuasion:religpew11
                                        0.6077032
## Persuasion:religpew12
                                        0.1115004
## Persuasion:partyid3_namesIndependent 0.9946926
## Persuasion:partyid3_namesNot Sure
                                        0.9542025
## Persuasion:partyid3_namesOther
                                        0.0065071 **
## Persuasion:partyid3_namesRepublican 0.2406812
## Persuasion:ethnocentric1
                                        0.9016684
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Persuasion:muslim on Y2.

H6a: (Heterogeneous effect of empathy and Muslim: letter)

The empathy prime combined with seeing Muslim refugee profiles will be correlated with a higher likelihood of sending an anonymous letter to the next President of the U.S. in support of resettling refugees, controlling for the number of Muslim refugee profiles seen. We use the ControlEmpathy.data dataset using the variable num_muslims for number of Muslim refugee profiles seen, for wave 1.

```
##
## t test of coefficients:
##
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                            0.1431792  0.0399120  3.5874  0.0003432
## Empathy
## num muslim
                            -0.0022704 0.0116531 -0.1948 0.8455482
                            ## sex
                            -0.0187265 0.0124163 -1.5082 0.1316791
## birthyr
## immigrant2
                            -0.0302800 0.0190101 -1.5928 0.1113767
                            ## educ
## religpew2
                            0.0728582 0.0337360 2.1597 0.0309342
## religpew3
                            0.0148468 0.0680149 0.2183 0.8272310
## religpew4
                            ## religpew5
                            ## religpew6
                            -0.0440111 0.0588713 -0.7476 0.4548130
## religpew7
                            0.1232570 0.1557582 0.7913 0.4288552
## religpew8
                            ## religpew9
                            0.1307304 0.0621882 2.1022 0.0356801
## religpew10
                            0.1439262 0.0545267 2.6396 0.0083749
## religpew11
                            0.0274081 0.0301353 0.9095 0.3632110
## religpew12
                            0.1253019  0.0602105  2.0811  0.0375726
## partyid3_namesIndependent
                           -0.0220901 0.0313749 -0.7041 0.4814837
## partyid3 namesNot Sure
                           ## partyid3_namesOther
## partyid3 namesRepublican
                            ## ethnocentric1
                           -0.0596166 0.0119619 -4.9839 6.846e-07
## Empathy:num_muslim
                            ## Empathy:sex
                            -0.0197011 0.0176174 -1.1183 0.2636014
## Empathy:birthyr
                            0.0230847
                                    0.0186207 1.2397 0.2152406
## Empathy:educ
                            -0.0412346 0.0192351 -2.1437 0.0321921
## Empathy:religpew2
                            0.1486852 0.7176 0.4731123
## Empathy:religpew3
                            0.1066934
## Empathy:religpew4
                            -0.1734967
                                    0.1145419 -1.5147 0.1300279
## Empathy:religpew5
                            ## Empathy:religpew6
                            ## Empathy:religpew7
                            0.1452977
                                    ## Empathy:religpew8
                            0.2486580 0.2921501 0.8511 0.3948126
## Empathy:religpew9
                            0.0452936 0.0906994 0.4994 0.6175731
## Empathy:religpew10
                            ## Empathy:religpew11
                            -0.0588976
                                    0.0461485 -1.2763 0.2020316
## Empathy:religpew12
                            ## Empathy:partyid3 namesIndependent -0.1145000 0.0456225 -2.5097 0.0121718
## Empathy:partyid3_namesNot Sure
                            ## Empathy:partyid3 namesOther
                            0.3517763  0.3039883  1.1572  0.2473466
## Empathy:partyid3_namesRepublican -0.0708856 0.0418035 -1.6957 0.0901224
## Empathy:ethnocentric1
                            -0.0276544 0.0180615 -1.5311 0.1259182
##
## (Intercept)
## Empathy
                            ***
```

```
## num_muslim
## sex
## birthyr
## immigrant2
## educ
                                      ***
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3 namesRepublican
                                      ***
## ethnocentric1
                                      ***
## Empathy:num_muslim
## Empathy:sex
## Empathy:birthyr
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3 namesIndependent *
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Empathy:num_muslim on Y6.

H6b: (Heterogeneous effect of persuasion and Muslim: letter)

The persuasion prime combined with seeing Muslim refugee profiles will be correlated with a higher likelihood of sending an anonymous letter to the next President of the U.S. in support of resettling refugees, controlling for the number of Muslim refugee profiles seen. We use the ControlPersuasion.data dataset using the variable num_muslims for number of Muslim refugee profiles seen, for wave 1.

```
##
## t test of coefficients:
##
##
Estimate Std. Error t value
```

```
## (Intercept)
                                       0.1618617 0.0330603 4.8960
## Persuasion
                                       0.0561832 0.0469258 1.1973
                                      -0.0020947 0.0116327 -0.1801
## num muslim
## sex
                                       0.0105062 0.0119162 0.8817
## birthyr
                                      -0.0202899 0.0124165 -1.6341
                                      -0.0019352 0.0259135 -0.0747
## immigrant2
## educ
                                       0.0663607 0.0131921 5.0303
## religpew2
                                       ## religpew3
                                       0.0180555 0.0689514 0.2619
## religpew4
                                       0.0523915 0.1047439 0.5002
                                       0.1221176 0.0861019 1.4183
## religpew5
## religpew6
                                      -0.0335196 0.0568217 -0.5899
## religpew7
                                       0.1261760 0.1544053 0.8172
## religpew8
                                      -0.0700629
                                                  0.0310016 -2.2600
## religpew9
                                       0.1336159 0.0618701 2.1596
## religpew10
                                       0.1445604 0.0545102 2.6520
## religpew11
                                       0.0300661 0.0301620 0.9968
## religpew12
                                       0.1266753 0.0600398 2.1099
## partyid3_namesIndependent
                                      -0.0194199 0.0313768 -0.6189
## partyid3 namesNot Sure
                                      -0.0828620 0.0388420 -2.1333
## partyid3_namesOther
                                      -0.2115145 0.0551947 -3.8322
## partyid3_namesRepublican
                                      -0.1348891 0.0273250 -4.9365
## ethnocentric1
                                      -0.0597253 0.0083646 -7.1403
## Persuasion:num muslim
                                      0.0023781 0.0167738 0.1418
## Persuasion:sex
                                      -0.0068952 0.0169727 -0.4063
## Persuasion:birthyr
                                      0.0367489 0.0174389 2.1073
## Persuasion:immigrant2
                                      0.0303722 0.0369795 0.8213
## Persuasion:educ
                                      -0.0181368 0.0184127 -0.9850
## Persuasion:religpew2
                                      -0.0829804 0.0483361 -1.7167
## Persuasion:religpew3
                                      0.0414742 0.1613628 0.2570
## Persuasion:religpew4
                                      -0.1070358 0.1640654 -0.6524
## Persuasion:religpew5
                                      -0.1276299 0.1122326 -1.1372
## Persuasion:religpew6
                                      -0.0364207 0.0998243 -0.3648
## Persuasion:religpew7
                                      0.0590497 0.1975366 0.2989
## Persuasion:religpew9
                                      -0.0664065 0.0838614 -0.7919
## Persuasion:religpew10
                                      ## Persuasion:religpew11
                                      ## Persuasion:religpew12
                                      -0.0355112  0.0882549  -0.4024
## Persuasion:partyid3_namesIndependent -0.0795504 0.0435894 -1.8250
## Persuasion:partyid3_namesNot Sure
                                      -0.0541598 0.0593704 -0.9122
## Persuasion:partyid3_namesOther
                                       0.1157884 0.1236805 0.9362
## Persuasion:partyid3 namesRepublican -0.0238921 0.0394632 -0.6054
##
                                       Pr(>|t|)
## (Intercept)
                                      1.068e-06 ***
## Persuasion
                                      0.2313598
## num_muslim
                                      0.8571175
                                      0.3780713
## sex
                                      0.1024148
## birthyr
## immigrant2
                                      0.9404786
## educ
                                      5.396e-07 ***
## religpew2
                                      0.0177369 *
## religpew3
                                      0.7934608
## religpew4
                                      0.6170061
## religpew5
                                      0.1562830
## religpew6
                                      0.5553273
## religpew7
                                      0.4139398
## religpew8
                                      0.0239445 *
```

```
## religpew9
                                        0.0309371 *
## religpew10
                                        0.0080739 **
## religpew11
                                        0.3189882
## religpew12
                                        0.0350119 *
## partyid3_namesIndependent
                                        0.5360458
## partyid3_namesNot Sure
                                        0.0330377 *
## partyid3_namesOther
                                        0.0001315 ***
## partyid3 namesRepublican
                                        8.708e-07 ***
## ethnocentric1
                                        1.358e-12 ***
## Persuasion:num_muslim
                                        0.8872758
## Persuasion:sex
                                        0.6846063
## Persuasion:birthyr
                                        0.0352338 *
## Persuasion:immigrant2
                                        0.4115735
## Persuasion:educ
                                        0.3247525
## Persuasion:religpew2
                                        0.0862037
## Persuasion:religpew3
                                        0.7971900
## Persuasion:religpew4
                                        0.5142302
## Persuasion:religpew5
                                        0.2556134
## Persuasion:religpew6
                                        0.7152688
## Persuasion:religpew7
                                        0.7650286
## Persuasion:religpew9
                                        0.4285490
## Persuasion:religpew10
                                        0.1460440
## Persuasion:religpew11
                                        0.1464795
## Persuasion:religpew12
                                        0.6874601
## Persuasion:partyid3 namesIndependent 0.0681716
## Persuasion:partyid3_namesNot Sure
                                        0.3617694
## Persuasion:partyid3_namesOther
                                        0.3493043
## Persuasion:partyid3_namesRepublican 0.5449738
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Persuasion:num muslim on Y6.

Additional hypotheses: robustness checks and verifications: H7a - H15c

H7a: (Y1)

Given a choice between choosing a Christian refugee profile versus a Muslim refugee profile, respondents are on average more likely to prefer the Christian refugee profile. We first subset the data data.y1 to profile pairs where a Christian profile is compared against a Muslim profile (h7a) and use only observations from the Control group.

```
##
## t test of coefficients:
##
##
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.5371885 0.0052133 103.0420 < 2.2e-16 ***
## Rmuslim
             ## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## t test of coefficients:
##
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                          5.1683e-01 4.8699e-02 10.6127 < 2.2e-16 ***
                          -7.4236e-02 1.0371e-02 -7.1581 8.711e-13 ***
## Rmuslim
                          -3.3641e-04 7.9492e-04 -0.4232 0.67216
## gender
                          1.0808e-05 2.4894e-05 0.4342 0.66419
## birthyr1
```

```
## immigrant2
                            -4.2571e-04 8.3333e-04 -0.5109
                                                              0.60946
## educ1
                            -2.1082e-05 2.7764e-04 -0.0759
                                                              0.93947
## religpew2
                            -1.1161e-03 1.0996e-03 -1.0150
                                                              0.31013
## religpew3
                            -1.1952e-03 2.8951e-03 -0.4128
                                                              0.67974
## religpew4
                            -1.7683e-03 5.7733e-03 -0.3063
                                                              0.75939
                             1.6971e-03 3.3024e-03 0.5139
## religpew5
                                                              0.60733
                            -3.8087e-03 3.7774e-03 -1.0083
## religpew6
                                                              0.31334
## religpew7
                            -7.0084e-03 3.8380e-03 -1.8261
                                                              0.06787
## religpew8
                            -8.8874e-03 7.0234e-03 -1.2654
                                                              0.20575
## religpew9
                            -4.7722e-03
                                         1.9547e-03 -2.4413
                                                              0.01465
## religpew10
                            -1.3973e-03 1.7787e-03 -0.7856
                                                              0.43211
## religpew11
                            -4.8185e-04 1.1133e-03 -0.4328
                                                              0.66516
## religpew12
                            -1.4618e-03 1.6242e-03 -0.9000
                                                              0.36814
## partyid3_namesIndependent 1.1009e-03
                                         9.7227e-04 1.1323
                                                              0.25753
## partyid3_namesNot Sure
                            -1.8517e-03 1.7458e-03 -1.0606
                                                              0.28887
## partyid3_namesOther
                             -6.8193e-03 3.4818e-03 -1.9585
                                                              0.05019
## partyid3_namesRepublican
                            -6.6566e-04
                                         1.0177e-03 -0.6541
                                                              0.51307
## ethnocentric2
                             8.5891e-04 1.0914e-03 0.7869
                                                              0.43133
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

There exists a Muslim penalty – respondents in the Control group are less likely (-0.0740753) to choose a profile if it is Muslim than if it is Christian.

H7b:

Respondents will give lower admission scores on average to Muslim refugees relative to Christian refugees ("Muslim penalty"). We consider only the Control group, for wave 1.

```
## t test of coefficients:
##
##
                                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                     5.508629
                                                0.123255 44.6930 < 2.2e-16
## muslim
                                    -0.331071
                                                0.123334 - 2.6843
                                                                  0.007275
                                     0.054035
                                                0.048063 1.1243 0.260918
## sex
## birthyr
                                     0.182685
                                                0.045733 3.9946 6.508e-05
                                     0.191625
                                                0.047222 4.0580 4.973e-05
## educ
## religpew2
                                    -0.118529
                                                0.138898 -0.8534
                                                                  0.393476
                                                0.391174 0.3186
## religpew3
                                     0.124630
                                                                  0.750030
## religpew4
                                    -0.191200
                                                0.368799 -0.5184 0.604158
## religpew5
                                    -0.146311
                                                0.355560 -0.4115 0.680715
## religpew6
                                     0.232535
                                                0.582580 0.3991
                                                                  0.689790
## religpew7
                                     0.479981
                                                0.264088 1.8175 0.069158
## religpew8
                                    -0.012716
                                                0.148215 -0.0858 0.931630
## religpew9
                                                0.188194 1.6958
                                                                  0.089945
                                     0.319137
## religpew10
                                    -0.084545
                                                0.201975 -0.4186
                                                                  0.675521
## religpew11
                                    -0.261358
                                                0.136664 -1.9124
                                                                  0.055842
## religpew12
                                    -0.164706
                                                0.201437 -0.8177
                                                                  0.413566
                                    -0.694739
## partyid3_namesIndependent
                                                0.109015 -6.3729 1.905e-10
                                                0.213261 -4.0981 4.186e-05
## partyid3_namesNot Sure
                                    -0.873967
## partyid3_namesOther
                                    -1.023356
                                                0.605975 -1.6888 0.091282
## partyid3_namesRepublican
                                                0.128100 - 9.4124 < 2.2e - 16
                                    -1.205722
## ethnocentric1
                                    -0.312699
                                                0.058788 -5.3191 1.057e-07
## immigrant2
                                                0.100736 -1.4564 0.145310
                                    -0.146709
## muslim:sex
                                    -0.058251
                                                0.047683 -1.2216
                                                                  0.221859
## muslim:birthyr
                                    -0.013096
                                                0.044981 -0.2911 0.770950
```

```
## muslim:educ
                                    -0.038724
                                               0.047146 -0.8214 0.411453
                                               0.136698 1.2561 0.209106
## muslim:religpew2
                                     0.171703
                                     0.055288
## muslim:religpew3
                                               0.365007 0.1515 0.879607
## muslim:religpew4
                                     0.374560 0.522989 0.7162 0.473884
## muslim:religpew5
                                     0.275177
                                               0.372554 0.7386 0.460146
                                     0.301073
## muslim:religpew6
                                               0.476313 0.6321 0.527336
## muslim:religpew7
                                     0.341505
                                               0.299189 1.1414 0.253706
## muslim:religpew8
                                     1.754119
                                               0.262641 6.6788 2.488e-11
## muslim:religpew9
                                    -0.072377
                                               0.186822 -0.3874 0.698458
                                               0.201273 2.5459 0.010907
## muslim:religpew10
                                     0.512431
## muslim:religpew11
                                               0.136236 1.9020 0.057184
                                     0.259126
## muslim:religpew12
                                     0.494649
                                               0.178311 2.7741 0.005542
                                               0.106865 -0.8076 0.419319
## muslim:partyid3_namesIndependent -0.086306
## muslim:partyid3_namesNot Sure
                                     0.073745
                                                0.233385 0.3160 0.752021
## muslim:partyid3_namesOther
                                     0.168580
                                                0.404179 0.4171 0.676616
## muslim:partyid3_namesRepublican -0.098761
                                                0.125891 -0.7845
                                                                  0.432763
                                    -0.048373
## muslim:ethnocentric1
                                                0.056819 -0.8513
                                                                  0.394590
                                                0.099551 -0.4319 0.665830
## muslim:immigrant2
                                    -0.042995
##
## (Intercept)
                                    ***
## muslim
                                    **
## sex
## birthyr
                                    ***
## educ
                                    ***
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                    ***
## partyid3 namesNot Sure
                                    ***
## partyid3_namesOther
## partyid3_namesRepublican
## ethnocentric1
                                    ***
## immigrant2
## muslim:sex
## muslim:birthyr
## muslim:educ
## muslim:religpew2
## muslim:religpew3
## muslim:religpew4
## muslim:religpew5
## muslim:religpew6
## muslim:religpew7
## muslim:religpew8
                                    ***
## muslim:religpew9
## muslim:religpew10
## muslim:religpew11
## muslim:religpew12
## muslim:partyid3_namesIndependent
## muslim:partyid3_namesNot Sure
```

```
## muslim:partyid3_namesOther
## muslim:partyid3_namesRepublican
## muslim:ethnocentric1
## muslim:immigrant2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

We see that there is a highly significant and negative muslim effect (-0.33,pvalue=0.007275; does not pass Bonferonni correction of 0.05/11=0.004545455). Respondents are more likely to give higher scores to Christian refugees compared to Muslim ones.

H7c:

The likelihood of respondents sending an anonymous letter to the White House is negatively correlated with the number of Muslim refugee profiles presented to them. (data, using explanatory variable num_muslim, wave 1).

```
## t test of coefficients:
##
##
                                      Estimate Std. Error t value
## (Intercept)
                                    0.26190477
                                              0.02029486 12.9050
## num_muslim
                                   ## sex
                                   ## birthyr
                                   -0.00040181 0.00746487 -0.0538
## educ
                                    0.04885691 0.00773914 6.3130
## religpew2
                                    0.01365458 0.01993756 0.6849
## religpew3
                                    0.04044545 0.06075186 0.6657
## religpew4
                                   -0.05307320 0.05806416 -0.9140
## religpew5
                                    0.09228459 0.05045478 1.8291
## religpew6
                                   -0.06644786 0.05670203 -1.1719
## religpew7
                                    0.22064765 0.07674329 2.8751
## religpew8
                                    0.21755696 0.15284202 1.4234
## religpew9
                                    0.11736842 0.03648616 3.2168
## religpew10
                                    0.07228386 0.03527508 2.0491
## religpew11
                                   -0.01633954 0.01867149 -0.8751
## religpew12
                                    0.11088818  0.03480228  3.1862
## partyid3_namesIndependent
                                   ## partyid3_namesNot Sure
                                   ## partyid3_namesOther
                                   ## partyid3_namesRepublican
                                   -0.16249881 0.01670858 -9.7255
## ethnocentric1
                                   -0.07009731 0.00711513 -9.8519
## family_income
                                   ## immigrant2
                                   -0.01849597 0.01538172 -1.2025
## num_muslim:sex
                                   ## num_muslim:birthyr
                                    0.00190018 0.00744174 0.2553
## num muslim:educ
                                    0.01818368 0.00751232 2.4205
## num muslim:religpew2
                                    0.01854876 0.02102818 0.8821
## num_muslim:religpew3
                                    0.04602259 0.10566322 0.4356
## num_muslim:religpew4
                                    0.00798942 0.03158013 0.2530
## num_muslim:religpew5
                                   -0.08505811
                                              0.04215208 -2.0179
## num_muslim:religpew6
                                   -0.05656831 0.07873006 -0.7185
## num_muslim:religpew7
                                    0.18333852 0.06819201 2.6886
                                   -0.29363595 0.09754220 -3.0103
## num_muslim:religpew8
## num_muslim:religpew9
                                    0.05400647
                                              0.03600216
                                                        1.5001
## num_muslim:religpew10
                                    0.02722685
                                              0.03381194 0.8052
## num_muslim:religpew11
                                    0.00171423
                                              0.01949711 0.0879
## num_muslim:religpew12
                                    0.06306439 0.03257445 1.9360
```

```
## num_muslim:partyid3_namesIndependent -0.02754978 0.01805745 -1.5257
## num muslim:partyid3 namesNot Sure
                                        ## num_muslim:partyid3_namesOther
                                        0.05898146 0.07024815 0.8396
## num_muslim:partyid3_namesRepublican
                                        0.00474262 0.01661266 0.2855
## num_muslim:ethnocentric1
                                        -0.00019895 0.00699784 -0.0284
## num_muslim:family_income
                                        -0.00011276 0.00016457 -0.6852
## num_muslim:immigrant2
                                        ##
                                        Pr(>|t|)
## (Intercept)
                                        < 2.2e-16 ***
## num_muslim
                                        0.760374
## sex
                                        0.981905
                                        0.957077
## birthyr
                                        3.198e-10 ***
## educ
## religpew2
                                        0.493488
## religpew3
                                        0.505630
## religpew4
                                        0.360777
## religpew5
                                        0.067503
## religpew6
                                        0.241351
## religpew7
                                        0.004071
## religpew8
                                        0.154735
## religpew9
                                        0.001312 **
## religpew10
                                        0.040546 *
## religpew11
                                        0.381595
                                        0.001458 **
## religpew12
## partyid3 namesIndependent
                                        1.895e-05 ***
                                       1.342e-07 ***
## partyid3_namesNot Sure
## partyid3_namesOther
                                        0.283476
## partyid3_namesRepublican
                                       < 2.2e-16 ***
## ethnocentric1
                                        < 2.2e-16 ***
## family_income
                                       1.486e-05 ***
                                        0.229291
## immigrant2
## num_muslim:sex
                                        0.148875
## num_muslim:birthyr
                                        0.798479
## num_muslim:educ
                                        0.015565 *
## num_muslim:religpew2
                                        0.377808
## num_muslim:religpew3
                                        0.663192
## num muslim:religpew4
                                        0.800296
## num_muslim:religpew5
                                        0.043703 *
## num_muslim:religpew6
                                        0.472506
## num_muslim:religpew7
                                        0.007221 **
## num_muslim:religpew8
                                        0.002634 **
## num muslim:religpew9
                                        0.133710
## num_muslim:religpew10
                                        0.420751
## num_muslim:religpew11
                                        0.929945
## num_muslim:religpew12
                                        0.052973
## num_muslim:partyid3_namesIndependent
                                        0.127210
## num_muslim:partyid3_namesNot Sure
                                        0.536546
## num_muslim:partyid3_namesOther
                                        0.401199
## num_muslim:partyid3_namesRepublican
                                        0.775297
## num_muslim:ethnocentric1
                                        0.977321
## num_muslim:family_income
                                        0.493282
## num_muslim:immigrant2
                                        0.600044
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of num muslim on Y6.

H8a: HTE empathy with Muslim profile on Y2 over time

The heterogeneous effect of the empathy treatment with the ratings of a Muslim refugee profile compared to a Christian refugee profile may degrade in magnitude over time but will persist. We subset h7b to only respondents who answered dependent variable questions in Wave 2 (Treatment_Group==2 and Treatment_Group==4) and call this h8a.

```
##
## t test of coefficients:
##
##
                                        Estimate Std. Error
                                                              t value
   (Intercept)
                                      5.34958154
                                                  0.12424898
                                                              43.0553
##
                                     -0.05456132 0.21456264
                                                              -0.2543
## Empathy
## muslim
                                     -0.23887342
                                                  0.06015451
                                                               -3.9710
## sex
                                     -0.09328682 0.04050111
                                                              -2.3033
                                                                3.8828
## birthyr
                                      ## educ
                                      0.13662851 0.03937485
                                                               3.4699
## religpew2
                                     -0.01876714 0.11614978
                                                               -0.1616
## religpew3
                                      0.17416834 0.23375597
                                                                0.7451
## religpew4
                                      0.63968845
                                                 0.52119832
                                                               1.2273
## religpew5
                                      0.04190857
                                                  0.27904153
                                                                0.1502
## religpew6
                                      1.81662971
                                                  0.28534040
                                                                6.3665
## religpew7
                                      0.34341536
                                                 0.42069505
                                                                0.8163
## religpew8
                                      1.19358071
                                                  0.34703367
                                                                3.4394
## religpew9
                                      0.54549067
                                                  0.17711723
                                                                3.0798
## religpew10
                                                                2.0129
                                      0.34160094
                                                  0.16970799
## religpew11
                                      0.09675868
                                                  0.11993923
                                                                0.8067
## religpew12
                                      0.05281738
                                                  0.17764418
                                                                0.2973
## partyid3_namesIndependent
                                     -0.85397334
                                                  0.09820930
                                                               -8.6954
## partyid3_namesNot Sure
                                     -1.06919841
                                                 0.18565642
                                                              -5.7590
## partyid3 namesOther
                                     -1.06953667
                                                 0.33749597
                                                              -3.1690
## partyid3_namesRepublican
                                     -1.31626463 0.10462984 -12.5802
## ethnocentric1
                                     -0.43549092
                                                  0.04915635
                                                               -8.8593
## family_income
                                     -0.00108070 0.00134503
                                                              -0.8035
## immigrant2
                                     -0.25115625
                                                  0.08665924
                                                              -2.8982
## Empathy:muslim
                                     -0.00678338
                                                              -0.0697
                                                  0.09730934
## Empathy:sex
                                      0.12605250
                                                  0.07070773
                                                                1.7827
## Empathy:birthyr
                                     -0.01038378
                                                 0.07305482
                                                              -0.1421
## Empathy:educ
                                     -0.03642459
                                                  0.07187616
                                                               -0.5068
## Empathy:religpew2
                                      0.16827757
                                                  0.20082507
                                                                0.8379
## Empathy:religpew3
                                      0.62217328
                                                  0.44392768
                                                                1.4015
## Empathy:religpew4
                                     -1.12917282
                                                  0.84055748
                                                              -1.3434
## Empathy:religpew5
                                     -0.15284056
                                                  0.49486787
                                                              -0.3089
## Empathy:religpew6
                                     -1.37004427
                                                  0.77845247
                                                               -1.7600
## Empathy:religpew7
                                      0.37499558
                                                  0.63453632
                                                                0.5910
## Empathy:religpew8
                                      0.48641493 0.39071031
                                                                1.2450
                                                                0.8093
## Empathy:religpew9
                                      0.24628403 0.30431381
## Empathy:religpew10
                                      0.23072534
                                                  0.28820806
                                                                0.8006
## Empathy:religpew11
                                     -0.23329261
                                                  0.20488691
                                                              -1.1386
## Empathy:religpew12
                                     -0.04267866
                                                  0.31598379
                                                              -0.1351
## Empathy:partyid3_namesIndependent -0.05383595
                                                  0.16984457
                                                               -0.3170
## Empathy:partyid3_namesNot Sure
                                      0.08688909
                                                  0.30566948
                                                                0.2843
## Empathy:partyid3_namesOther
                                      0.21743090 0.63557448
                                                                0.3421
## Empathy:partyid3_namesRepublican
                                      0.20554154
                                                  0.18143089
                                                                1.1329
                                      0.01925436
## Empathy:ethnocentric1
                                                                0.2340
                                                  0.08230030
## Empathy:family_income
                                     -0.00098989
                                                  0.00239149
                                                               -0.4139
                                                                0.2392
## Empathy:immigrant2
                                      0.03636713
                                                  0.15203253
```

```
##
                                       Pr(>|t|)
## (Intercept)
                                      < 2.2e-16 ***
## Empathy
                                      0.7992741
## muslim
                                      7.188e-05 ***
## sex
                                      0.0212737 *
## birthyr
                                      0.0001037 ***
## educ
                                      0.0005219 ***
## religpew2
                                      0.8716410
## religpew3
                                      0.4562305
## religpew4
                                      0.2197121
## religpew5
                                      0.8806185
## religpew6
                                      1.986e-10 ***
## religpew7
                                      0.4143379
## religpew8
                                      0.0005845 ***
## religpew9
                                      0.0020747 **
## religpew10
                                      0.0441444 *
## religpew11
                                      0.4198334
## religpew12
                                      0.7662251
## partyid3_namesIndependent
                                      < 2.2e-16 ***
## partyid3 namesNot Sure
                                      8.614e-09 ***
## partyid3_namesOther
                                      0.0015323 **
## partyid3_namesRepublican
                                      < 2.2e-16 ***
## ethnocentric1
                                      < 2.2e-16 ***
## family_income
                                      0.4217109
## immigrant2
                                      0.0037581 **
## Empathy:muslim
                                      0.9444258
## Empathy:sex
                                      0.0746497
## Empathy:birthyr
                                      0.8869737
## Empathy:educ
                                      0.6123240
## Empathy:religpew2
                                      0.4020818
## Empathy:religpew3
                                      0.1610780
## Empathy:religpew4
                                      0.1791737
## Empathy:religpew5
                                      0.7574387
## Empathy:religpew6
                                      0.0784337
## Empathy:religpew7
                                      0.5545449
## Empathy:religpew8
                                      0.2131681
## Empathy:religpew9
                                      0.4183491
## Empathy:religpew10
                                      0.4234032
## Empathy:religpew11
                                      0.2548698
## Empathy:religpew12
                                      0.8925614
## Empathy:partyid3_namesIndependent 0.7512690
## Empathy:partyid3 namesNot Sure
                                      0.7762161
## Empathy:partyid3_namesOther
                                      0.7322791
## Empathy:partyid3_namesRepublican 0.2572766
## Empathy:ethnocentric1
                                      0.8150249
## Empathy:family_income
                                      0.6789379
## Empathy:immigrant2
                                      0.8109487
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Empathy:muslim on Y2 in long-run.

H8b: HTE information with Muslim profile on Y2 over time

The heterogeneous effect of the persuasion treatment with the ratings of a Muslim refugee profile compared to a Christian refugee profile may degrade in magnitude over time but will persist. We subset h7b to only respondents who answered dependent variable questions in Wave 2 (Treatment_Group==2 and Treatment_Group==6) and call

this h8b.

##				
##	t test of coefficients:			
##				
##		Estimate	Std. Error	t value
##	(Intercept)	5.2715365	0.1262951	41.7398
##	Persuasion	0.1606694	0.2112394	0.7606
##	muslim	-0.2344236	0.0563393	-4.1609
##	sex	-0.0093987	0.0405773	-0.2316
##	birthyr	0.0946121	0.0426753	2.2170
##	educ	0.1328445	0.0411189	3.2307
##	religpew2	0.0094147	0.1167456	0.0806
##	religpew3	0.4766354	0.2933961	1.6245
##	religpew4	-0.3225046	0.5052685	-0.6383
##	religpew5	-0.0512448	0.3041725	-0.1685
##	religpew6	1.4391389	0.4190569	3.4342
##	religpew7	0.5030919	0.4243851	1.1855
##	religpew8	0.9968106	0.3050928	3.2672
##	religpew9	0.7681299	0.1695796	4.5296
##	religpew10	0.5428761	0.1691340	3.2097
	religpew11	0.0456370	0.1173281	0.3890
	religpew12	0.1589571	0.1726820	0.9205
	partyid3_namesIndependent	-0.9108934	0.0978567	-9.3084
	partyid3_namesNot Sure	-1.0432165	0.1804130	-5.7824
	partyid3_namesOther	-1.0247852	0.3813019	-2.6876
	partyid3_namesRepublican	-1.2422540	0.1063382	
	ethnocentric1	-0.4418774	0.0503525	-8.7757
##	family_income	-0.0016175	0.0013597	-1.1896
##	immigrant2	-0.1872933	0.0881437	-2.1249
	Persuasion:muslim	-0.0130820	0.1035080 0.0716345	-0.1264
	Persuasion:sex	-0.1349028 0.2005406		-1.8832 2.7708
	Persuasion:birthyr Persuasion:educ	-0.0266613	0.0723775	-0.3839
	Persuasion:religpew2	0.0341186	0.2005727	0.3839
	Persuasion:relignew3	-0.2576086	0.3964571	-0.6498
	Persuasion:religpew4	1.3417079	0.8163119	1.6436
	Persuasion:religpew5	0.0527132	0.4897868	0.1076
	Persuasion:religpew6	0.1358373	0.5473993	0.2482
	Persuasion:religpew7	-0.1644280	0.6667697	-0.2466
	Persuasion:religpew8	0.4074412	0.4255620	0.9574
	Persuasion:relignew9	-0.4769576	0.3179053	-1.5003
	Persuasion:relignew10	-0.3631092	0.2825111	-1.2853
	Persuasion:religpew11	-0.1182161	0.2103093	-0.5621
	Persuasion:religpew12	-0.3536118	0.3223023	-1.0971
	Persuasion:partyid3_namesIndependent	0.1575180	0.1720581	0.9155
	Persuasion:partyid3_namesNot Sure	0.0802420	0.3249570	0.2469
##	Persuasion:partyid3_namesOther	0.1575085	0.5946397	0.2649
	Persuasion:partyid3_namesRepublican	-0.0099893	0.1807084	-0.0553
	Persuasion:ethnocentric1	0.0322377	0.0812341	0.3968
##	Persuasion:family_income	0.0007913	0.0023270	0.3401
	Persuasion:immigrant2	-0.1476718	0.1497490	-0.9861
##		Pr(> t)		
##	(Intercept)	< 2.2e-16 ***		
##	Persuasion	0.4469051		
##	muslim	3.186e-05 ***		
##	sex	0.8168324		

```
## birthyr
                                         0.0266353 *
## educ
                                         0.0012372 **
## religpew2
                                         0.9357271
## religpew3
                                         0.1042788
## religpew4
                                         0.5232981
## religpew5
                                         0.8662135
## religpew6
                                         0.0005957 ***
## religpew7
                                         0.2358527
## religpew8
                                         0.0010883 **
## religpew9
                                         5.952e-06 ***
## religpew10
                                         0.0013312 **
## religpew11
                                         0.6973042
## religpew12
                                         0.3573153
## partyid3_namesIndependent
                                         < 2.2e-16 ***
## partyid3_namesNot Sure
                                         7.501e-09 ***
## partyid3_namesOther
                                        0.0072042 **
## partyid3_namesRepublican
                                         < 2.2e-16 ***
## ethnocentric1
                                         < 2.2e-16 ***
## family_income
                                         0.2342104
## immigrant2
                                         0.0336132 *
## Persuasion:muslim
                                         0.8994274
## Persuasion:sex
                                         0.0596897
## Persuasion:birthyr
                                         0.0055990 **
## Persuasion:educ
                                         0.7010938
## Persuasion:religpew2
                                         0.8649288
## Persuasion:religpew3
                                         0.5158457
## Persuasion:religpew4
                                         0.1002738
## Persuasion:religpew5
                                         0.9142947
## Persuasion:religpew6
                                         0.8040213
## Persuasion:religpew7
                                         0.8052179
## Persuasion:religpew8
                                         0.3383700
## Persuasion:religpew9
                                         0.1335527
## Persuasion:religpew10
                                         0.1987088
## Persuasion:religpew11
                                         0.5740517
## Persuasion:religpew12
                                         0.2725952
## Persuasion:partyid3_namesIndependent 0.3599465
## Persuasion:partyid3_namesNot Sure
                                         0.8049646
## Persuasion:partyid3_namesOther
                                         0.7911049
## Persuasion:partyid3_namesRepublican 0.9559174
## Persuasion:ethnocentric1
                                         0.6914837
## Persuasion:family_income
                                        0.7338214
## Persuasion:immigrant2
                                         0.3240848
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Persuasion:muslim on Y2 in long-run.

H9a: HTE empathy with Muslim profile on Y6 over time

The heterogeneous effect of the empathy treatment with seeing Muslim refugee profiles on sending an anonymous letter to the White House may degrade in magnitude over time but will persist. We use ControlEmpathy.data.w2.

```
##
## t test of coefficients:
##
##

Estimate Std. Error t value
## (Intercept)

0.33922740
0.03948787
8.5907
```

```
## Empathy
                               -0.01161878 0.01275176 -0.9112
## num muslim
## sex
                               0.00360180 0.01268534 0.2839
## birthyr
                               ## educ
                               0.04766359 0.01424355 3.3463
                               -0.02820561 0.03312633 -0.8515
## religpew2
## religpew3
                               ## religpew4
                               ## religpew5
                               0.05207671 0.12147380 0.4287
## religpew6
                               0.31673865 0.14818715 2.1374
## religpew7
                               0.47437564 0.12826106 3.6985
## religpew8
                               0.04863184 0.07213250 0.6742
## religpew9
                               0.18203026  0.06612618  2.7528
## religpew10
                               0.13746488 0.07135603 1.9265
## religpew11
                               0.01329726  0.03666003  0.3627
## religpew12
                               0.06382391 0.05178979 1.2324
                               ## partyid3_namesIndependent
## partyid3_namesNot Sure
                               -0.17659566 0.05133619 -3.4400
## partyid3_namesOther
                               0.07612700 0.14431370 0.5275
## partyid3_namesRepublican
                               -0.22950547 0.03163252 -7.2554
                               -0.07768931 0.01356057 -5.7291
## ethnocentric1
## family_income
                               -0.00039371 0.00036559 -1.0769
## immigrant2
                               -0.07019842 0.02859126 -2.4552
                               -0.00434440 0.01764012 -0.2463
## Empathy:num_muslim
## Empathy:sex
                               0.00617744 0.01816812 0.3400
                               0.03333376 0.01965024 1.6964
## Empathy:birthyr
## Empathy:educ
                               0.00115944 0.01962591 0.0591
## Empathy:religpew2
                               ## Empathy:religpew3
                               0.07737720 0.13430055 0.5761
## Empathy:religpew4
                               0.32952440 0.18257420 1.8049
## Empathy:religpew5
                               -0.04077284 0.14679791 -0.2777
                               ## Empathy:religpew6
                               ## Empathy:religpew7
## Empathy:religpew8
                              ## Empathy:religpew9
                               -0.10308482 0.09443842 -1.0916
## Empathy:religpew10
                               ## Empathy:religpew11
                               ## Empathy:religpew12
                               -0.01000089 0.07959945 -0.1256
## Empathy:partyid3_namesIndependent 0.04517337 0.04817332 0.9377
## Empathy:partyid3_namesNot Sure
                               ## Empathy:partyid3_namesOther
                               ## Empathy:partyid3 namesRepublican -0.00518412 0.04421663 -0.1172
## Empathy:ethnocentric1
                               -0.00407951 0.01965416 -0.2076
## Empathy:family_income
                               -0.00043884 0.00051568 -0.8510
## Empathy:immigrant2
                               0.05328794 0.04068115 1.3099
##
                               Pr(>|t|)
## (Intercept)
                               < 2.2e-16 ***
                               0.9522654
## Empathy
                               0.3623409
## num_muslim
## sex
                               0.7764945
## birthyr
                               0.0094331 **
## educ
                               0.0008362 ***
## religpew2
                               0.3946324
## religpew3
                               0.3959618
## religpew4
                               0.1464371
## religpew5
                               0.6681888
## religpew6
                               0.0327015 *
```

```
## religpew7
                                      0.0002235 ***
## religpew8
                                      0.5002720
## religpew9
                                      0.0059702 **
## religpew10
                                      0.0542078
## religpew11
                                      0.7168592
## religpew12
                                      0.2179780
                                      7.061e-06 ***
## partyid3_namesIndependent
## partyid3 namesNot Sure
                                      0.0005954 ***
## partyid3_namesOther
                                      0.5979058
## partyid3_namesRepublican
                                      5.987e-13 ***
## ethnocentric1
                                      1.186e-08 ***
## family_income
                                      0.2816708
                                      0.0141755 *
## immigrant2
## Empathy:num_muslim
                                      0.8054949
## Empathy:sex
                                      0.7338855
## Empathy:birthyr
                                      0.0899963
## Empathy:educ
                                      0.9528974
## Empathy:religpew2
                                      0.5956787
## Empathy:religpew3
                                      0.5645880
## Empathy:religpew4
                                      0.0712650
## Empathy:religpew5
                                      0.7812385
## Empathy:religpew6
                                      0.2649423
## Empathy:religpew7
                                      0.2556709
## Empathy:religpew8
                                      0.0003406 ***
## Empathy:religpew9
                                      0.2751782
## Empathy:religpew10
                                      0.3003153
## Empathy:religpew11
                                      0.2882251
## Empathy:religpew12
                                      0.9000312
## Empathy:partyid3_namesIndependent 0.3485144
## Empathy:partyid3_namesNot Sure
                                      0.3664700
## Empathy:partyid3_namesOther
                                      0.5562061
## Empathy:partyid3_namesRepublican
                                      0.9066803
## Empathy:ethnocentric1
                                      0.8355930
## Empathy:family_income
                                      0.3948949
## Empathy:immigrant2
                                      0.1904037
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Empathy:num_muslim on Y6 over time. ### H9b: HTE information with Muslim number on Y6 over time The heterogeneous effect of the persuasion treatment with seeing Muslim refugee profiles on sending an anonymous letter to the White House may degrade in magnitude over time but will persist. We use ControlPersuasion.data.w2.

```
##
## t test of coefficients:
##
##
                                Estimate
                                          Std. Error t value Pr(>|t|)
                              0.30733583
                                          0.01890184
                                                      16.2596 < 2.2e-16
## (Intercept)
                             -0.00789455
                                          0.00613628
                                                       -1.2865 0.1983395
## num_muslim
                              0.00349044 0.00629713
                                                       0.5543 0.5794148
## sex
## birthyr
                             -0.01574015 0.00675768
                                                      -2.3292 0.0199026 *
## educ
                              0.04769577
                                          0.00684600
                                                        6.9670 3.838e-12 ***
## religpew2
                              0.00433887
                                          0.01733127
                                                        0.2503 0.8023316
## religpew3
                              0.01043903 0.04871181
                                                        0.2143 0.8303239
## religpew4
                              0.01756224 0.06343154
                                                        0.2769 0.7818965
## religpew5
                              0.07648898
                                          0.04684218
                                                        1.6329 0.1025763
## religpew6
                              0.10950639
                                          0.07883299
                                                        1.3891 0.1648908
## religpew7
                              0.28971089 0.07932636
                                                        3.6521 0.0002638 ***
```

```
## religpew8
                    0.02637299 0.11887388
                                    0.2219 0.8244379
## religpew9
                    0.14056107 0.03304945
                                    4.2531 2.163e-05 ***
## religpew10
                    0.09085241 0.03151239
                                    2.8831 0.0039617 **
## religpew11
                   ## religpew12
                    0.07880215  0.02871005  2.7448  0.0060858 **
## partyid3_namesNot Sure
                 ## partyid3 namesOther
                   0.03356281 0.08495373
                                    0.3951 0.6928136
## partyid3 namesRepublican -0.19963347 0.01522822 -13.1094 < 2.2e-16 ***
## ethnocentric1
                   -0.07681943  0.00673032  -11.4139  < 2.2e-16 ***
                   ## family_income
## immigrant2
                   ## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistical significant effect of Persuasion:num muslim on Y6.

H10a: (Heterogeneous effect of empathy and Muslim: screening)

The empathy prime combined with seeing Muslim refugee profiles will be correlated with a higher likelihood of favoring the U.S. taking in Syrian refugees who pass a government security screening relative to the control, controlling for the number of Muslim refugee profiles seen. We use ControlEmpathy.data for wave 1, ControlEmpathy.data.w1.

```
##
## t test of coefficients:
##
##
                                       Estimate Std. Error t value
## (Intercept)
                                     7.3745e-01 4.2323e-02 17.4242
## Empathy
                                     1.0344e-01 5.5897e-02 1.8505
## num muslim
                                    -4.6146e-03 1.4655e-02 -0.3149
                                     8.9086e-05 1.4690e-02 0.0061
## sex
## birthyr
                                     1.6802e-02 1.4431e-02 1.1643
                                    -3.4495e-02 3.2300e-02 -1.0680
## immigrant2
## educ
                                     3.1121e-02 1.5093e-02 2.0620
## religpew2
                                     4.5450e-02 4.5976e-02 0.9886
## religpew3
                                     1.1467e-01 1.1216e-01 1.0223
## religpew4
                                     9.3100e-02 1.9319e-01 0.4819
                                     8.6393e-02 8.3684e-02 1.0324
## religpew5
                                    -1.2150e-01 2.9123e-01 -0.4172
## religpew6
## religpew7
                                     1.2373e-01 1.8536e-01 0.6675
## religpew8
                                     6.5867e-01 4.8455e-02 13.5934
## religpew9
                                     2.1851e-01 5.4366e-02 4.0192
## religpew10
                                     1.7721e-01 5.2168e-02 3.3969
## religpew11
                                     7.5806e-02 4.3895e-02 1.7270
## religpew12
                                     1.7961e-01 6.6169e-02 2.7144
## partyid3 namesIndependent
                                    -2.2060e-01 3.4054e-02 -6.4779
## partyid3 namesNot Sure
                                    -1.8091e-01 7.1834e-02 -2.5184
## partyid3_namesOther
                                    -3.6853e-01 2.6157e-01 -1.4089
## partyid3_namesRepublican
                                    -3.8689e-01 4.1040e-02 -9.4271
                                    -8.2273e-02 1.7461e-02 -4.7118
## ethnocentric1
## Empathy:num_muslim
                                    -2.5937e-02 2.0563e-02 -1.2613
## Empathy:sex
                                     2.9214e-04 2.0696e-02 0.0141
                                     4.3801e-02 2.0683e-02 2.1178
## Empathy:birthyr
## Empathy:immigrant2
                                     6.6212e-03 4.4466e-02 0.1489
## Empathy:educ
                                    1.2144e-02 2.0848e-02 0.5825
## Empathy:religpew2
                                    -9.5571e-02 6.2724e-02 -1.5237
## Empathy:religpew3
                                     3.0823e-02 1.5599e-01 0.1976
```

```
## Empathy:religpew4
                                      -5.2714e-01 2.4133e-01 -2.1843
                                      -2.4641e-03 1.2833e-01 -0.0192
## Empathy:religpew5
                                       2.6815e-01 3.1059e-01 0.8634
## Empathy:religpew6
## Empathy:religpew7
                                      -4.6967e-02 2.0497e-01 -0.2291
## Empathy:religpew8
                                      -5.4040e-01 1.2104e-01 -4.4648
                                      -2.4934e-01 7.7294e-02 -3.2259
## Empathy:religpew9
## Empathy:religpew10
                                      -1.3424e-01 7.6390e-02 -1.7573
## Empathy:religpew11
                                      -8.5455e-02 6.0474e-02 -1.4131
## Empathy:religpew12
                                      -1.8840e-01 9.0080e-02 -2.0915
## Empathy:partyid3_namesIndependent
                                      3.6057e-02 4.7168e-02 0.7644
                                      -9.4758e-03 9.7779e-02 -0.0969
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
                                       4.6424e-02 3.3146e-01 0.1401
## Empathy:partyid3_namesRepublican -1.3538e-02 5.7030e-02 -0.2374
## Empathy:ethnocentric1
                                      -2.3937e-02 2.3385e-02 -1.0236
##
                                       Pr(>|t|)
## (Intercept)
                                      < 2.2e-16 ***
                                      0.0644139
## Empathy
## num_muslim
                                      0.7528844
## sex
                                      0.9951620
## birthyr
                                      0.2444576
## immigrant2
                                      0.2856854
## educ
                                      0.0393533 *
## religpew2
                                      0.3230150
## religpew3
                                      0.3067631
## religpew4
                                      0.6299250
## religpew5
                                      0.3020357
## religpew6
                                      0.6765902
## religpew7
                                      0.5045242
## religpew8
                                      < 2.2e-16 ***
## religpew9
                                      6.086e-05 ***
                                      0.0006969 ***
## religpew10
## religpew11
                                      0.0843478
## religpew12
                                      0.0067052 **
## partyid3_namesIndependent
                                      1.205e-10 ***
## partyid3_namesNot Sure
                                      0.0118763 *
## partyid3_namesOther
                                      0.1590443
## partyid3_namesRepublican
                                      < 2.2e-16 ***
## ethnocentric1
                                      2.649e-06 ***
## Empathy:num_muslim
                                      0.2073534
## Empathy:sex
                                      0.9887391
## Empathy:birthyr
                                      0.0343363
## Empathy:immigrant2
                                      0.8816458
## Empathy:educ
                                      0.5602891
## Empathy:religpew2
                                      0.1277706
## Empathy:religpew3
                                      0.8433815
## Empathy:religpew4
                                      0.0290734 *
## Empathy:religpew5
                                      0.9846825
## Empathy:religpew6
                                      0.3880613
## Empathy:religpew7
                                      0.8187845
## Empathy:religpew8
                                      8.525e-06 ***
## Empathy:religpew9
                                      0.0012788 **
## Empathy:religpew10
                                      0.0790364
## Empathy:religpew11
                                      0.1578039
## Empathy:religpew12
                                      0.0366278
## Empathy:partyid3_namesIndependent 0.4447098
## Empathy:partyid3_namesNot Sure
                                      0.9228084
## Empathy:partyid3_namesOther
                                      0.8886275
```

```
## Empathy:partyid3_namesRepublican 0.8123897
## Empathy:ethnocentric1 0.3061688
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
No statistically significant effect of Empathy:num_muslim on Y4.
```

H10b: (Heterogeneous effect of persuasion and Muslim: screening)

The persuasion prime combined with seeing Muslim refugees profile will be correlated with a higher likelihood of favoring the U.S. taking in Syrian refugees who pass a government security screening than in the control, controlling for the number of Muslim refugee profiles seen. We use ControlPersuasion.data.w1.

```
##
##
  t test of coefficients:
##
##
                                           Estimate Std. Error t value
## (Intercept)
                                        7.3745e-01
                                                    4.2323e-02 17.4242
## Persuasion
                                        3.4614e-02 5.6860e-02 0.6088
## num_muslim
                                        -4.6146e-03
                                                    1.4655e-02 -0.3149
                                        8.9086e-05
                                                   1.4690e-02 0.0061
## sex
                                         1.6802e-02 1.4431e-02 1.1643
## birthyr
                                        -3.4495e-02 3.2300e-02 -1.0680
## immigrant2
## educ
                                         3.1121e-02
                                                    1.5093e-02
                                                                 2.0620
## religpew2
                                        4.5450e-02 4.5976e-02 0.9886
## religpew3
                                         1.1467e-01 1.1216e-01 1.0223
## religpew4
                                        9.3100e-02 1.9319e-01 0.4819
## religpew5
                                        8.6393e-02 8.3684e-02 1.0324
## religpew6
                                        -1.2150e-01 2.9123e-01 -0.4172
## religpew7
                                        1.2373e-01 1.8536e-01 0.6675
## religpew8
                                        6.5867e-01 4.8455e-02 13.5934
## religpew9
                                        2.1851e-01 5.4366e-02 4.0192
## religpew10
                                         1.7721e-01 5.2168e-02 3.3969
## religpew11
                                        7.5806e-02 4.3895e-02 1.7270
## religpew12
                                         1.7961e-01
                                                    6.6169e-02 2.7144
                                                    3.4054e-02 -6.4779
## partyid3_namesIndependent
                                        -2.2060e-01
## partyid3_namesNot Sure
                                        -1.8091e-01
                                                    7.1834e-02 -2.5184
## partyid3_namesOther
                                        -3.6853e-01
                                                    2.6157e-01 -1.4089
## partyid3_namesRepublican
                                        -3.8689e-01
                                                    4.1040e-02 -9.4271
## ethnocentric1
                                        -8.2273e-02 1.7461e-02 -4.7118
## Persuasion:num muslim
                                        -2.9221e-03 2.0479e-02 -0.1427
## Persuasion:sex
                                        9.2522e-03 2.0547e-02 0.4503
## Persuasion:birthyr
                                        2.8408e-02 1.9697e-02 1.4423
## Persuasion:immigrant2
                                       -2.9940e-02 4.4739e-02 -0.6692
## Persuasion:educ
                                        2.3793e-02 2.0994e-02 1.1333
## Persuasion:religpew2
                                        4.3246e-02 6.3918e-02 0.6766
## Persuasion:religpew3
                                        -6.3812e-02 2.2141e-01 -0.2882
## Persuasion:religpew4
                                        -1.4619e-01 2.6144e-01 -0.5592
## Persuasion:religpew5
                                        -6.0169e-02 1.2361e-01 -0.4868
## Persuasion:religpew6
                                        1.7895e-01
                                                    3.3083e-01 0.5409
## Persuasion:religpew7
                                        1.1941e-01
                                                    2.0270e-01 0.5891
## Persuasion:religpew9
                                       -8.0659e-02 7.1972e-02 -1.1207
## Persuasion:religpew10
                                        1.0070e-02 7.5635e-02 0.1331
## Persuasion:religpew11
                                        -5.8395e-02
                                                    6.0859e-02 -0.9595
## Persuasion:religpew12
                                        -5.5860e-02
                                                    9.4101e-02 -0.5936
## Persuasion:partyid3_namesIndependent
                                        3.9413e-03
                                                    4.7875e-02 0.0823
## Persuasion:partyid3_namesNot Sure
                                        -1.0744e-01 1.0005e-01 -1.0739
```

```
## Persuasion:partyid3_namesOther
                                          2.5987e-01 2.8941e-01 0.8979
                                          6.1449e-02 5.7527e-02 1.0682
## Persuasion:partyid3 namesRepublican
## Persuasion:ethnocentric1
                                         -1.6846e-02 2.2551e-02 -0.7470
##
                                          Pr(>|t|)
## (Intercept)
                                         < 2.2e-16 ***
## Persuasion
                                         0.5427636
## num_muslim
                                         0.7528844
                                         0.9951620
## birthyr
                                         0.2444575
## immigrant2
                                         0.2856854
## educ
                                         0.0393532 *
## religpew2
                                         0.3230149
## religpew3
                                         0.3067630
## religpew4
                                         0.6299250
## religpew5
                                         0.3020356
## religpew6
                                         0.6765902
## religpew7
                                         0.5045242
## religpew8
                                         < 2.2e-16 ***
## religpew9
                                         6.086e-05 ***
## religpew10
                                         0.0006968 ***
## religpew11
                                         0.0843477 .
## religpew12
                                         0.0067051 **
## partyid3_namesIndependent
                                         1.204e-10 ***
## partyid3_namesNot Sure
                                         0.0118762 *
## partyid3 namesOther
                                         0.1590442
## partyid3_namesRepublican
                                         < 2.2e-16 ***
## ethnocentric1
                                         2.649e-06 ***
## Persuasion:num_muslim
                                         0.8865541
## Persuasion:sex
                                         0.6525607
## Persuasion:birthyr
                                         0.1494048
## Persuasion:immigrant2
                                         0.5034435
## Persuasion:educ
                                         0.2572300
## Persuasion:religpew2
                                         0.4987603
## Persuasion:religpew3
                                         0.7732281
## Persuasion:religpew4
                                         0.5761247
## Persuasion:religpew5
                                         0.6264941
## Persuasion:religpew6
                                         0.5886264
## Persuasion:religpew7
                                         0.5558611
## Persuasion:religpew9
                                         0.2625692
## Persuasion:religpew10
                                         0.8940949
## Persuasion:religpew11
                                         0.3374337
## Persuasion:religpew12
                                         0.5528430
## Persuasion:partyid3_namesIndependent 0.9343986
## Persuasion:partyid3_namesNot Sure
                                         0.2830075
## Persuasion:partyid3_namesOther
                                         0.3693427
## Persuasion:partyid3_namesRepublican 0.2855849
## Persuasion:ethnocentric1
                                         0.4551564
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Persuasion:num_muslim on Y4.

H11a: (Heterogeneous empathy and muslim effect: screening over time)

The heterogeneous effect of the empathy treatment and seeing Muslim refugee profiles (compared to a Christian refugee profile) on favoring the U.S. taking in Syrian refugees who pass a government security screening may degrade in magnitude over time but will persist. We use ControlEmpathy.data.w2.

```
## t test of coefficients:
##
##
                                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                     0.8252279 0.0397421 20.7646 < 2.2e-16
                                     0.0111081 0.0568610
                                                           0.1954 0.8451369
## Empathy
## num_muslim
                                    ## sex
                                    -0.0182135 0.0145448 -1.2522 0.2106513
## birthyr
                                     0.0089841 0.0152988
                                                         0.5872 0.5571147
## immigrant2
                                    -0.0290495 0.0310001 -0.9371 0.3488475
                                                           2.5910 0.0096494
## educ
                                     0.0380065 0.0146687
## religpew2
                                    -0.0150498
                                               0.0423508 -0.3554 0.7223622
## religpew3
                                     0.1627465
                                               0.1485626
                                                          1.0955 0.2734592
## religpew4
                                    -0.5118834
                                                0.1050051
                                                          -4.8748 1.187e-06
                                               0.0910495 -0.6116 0.5408514
## religpew5
                                    -0.0556901
## religpew6
                                     0.2659748
                                               0.0690518
                                                          3.8518 0.0001215
## religpew7
                                    -0.0149624
                                               0.1158529 -0.1292 0.8972536
## religpew8
                                     0.7014210
                                               0.1234446
                                                           5.6821 1.555e-08
## religpew9
                                     0.1519274 0.0525236
                                                           2.8926 0.0038683
## religpew10
                                     0.1210228 0.0622167
                                                           1.9452 0.0519126
## religpew11
                                     0.0790861 0.0411418
                                                           1.9223 0.0547319
## religpew12
                                     0.0340561 0.0607066
                                                           0.5610 0.5748725
## partyid3_namesIndependent
                                    -0.3149233 0.0328584 -9.5842 < 2.2e-16
## partyid3_namesNot Sure
                                    -0.3327570 0.0697749 -4.7690 2.004e-06
## partyid3 namesOther
                                    -0.4260184 0.1262018 -3.3757 0.0007523
                                    -0.4226245 0.0392133 -10.7776 < 2.2e-16
## partyid3_namesRepublican
## ethnocentric1
                                    -0.1123395 0.0169323 -6.6346 4.320e-11
## Empathy:num_muslim
                                     0.0022953 0.0209563
                                                           0.1095 0.9127979
## Empathy:sex
                                     0.0085274
                                                0.0206184
                                                            0.4136 0.6792317
## Empathy:birthyr
                                     0.0286743
                                               0.0220855
                                                           1.2983 0.1943451
                                    -0.0473161
                                                0.0446456
                                                          -1.0598 0.2893742
## Empathy:immigrant2
                                               0.0209606
## Empathy:educ
                                     0.0176072
                                                           0.8400 0.4010151
## Empathy:religpew2
                                    -0.0186730
                                                0.0619800
                                                          -0.3013 0.7632413
## Empathy:religpew3
                                    -0.0340082
                                               0.2012465 -0.1690 0.8658256
## Empathy:religpew4
                                     0.6009776
                                               0.1868164
                                                          3.2169 0.0013192
                                                          0.1273 0.8987360
## Empathy:religpew5
                                    0.0157519 0.1237610
## Empathy:religpew6
                                    -0.4889947 0.2511723 -1.9468 0.0517121
## Empathy:religpew7
                                    0.2108570 0.1633937
                                                           1.2905 0.1970525
## Empathy:religpew8
                                    -0.4092901 0.1321471
                                                          -3.0972 0.0019843
## Empathy:religpew9
                                    -0.0059525 0.0769556 -0.0773 0.9383540
## Empathy:religpew10
                                     0.0123317 0.0788334
                                                           0.1564 0.8757145
## Empathy:religpew11
                                    -0.1132580 0.0584783 -1.9368 0.0529360
                                    -0.1618119 0.0952742 -1.6984 0.0896132
## Empathy:religpew12
## Empathy:partyid3_namesIndependent 0.0764970
                                                0.0481057
                                                            1.5902 0.1119729
## Empathy:partyid3_namesNot Sure
                                     0.1693794
                                                0.0942113
                                                           1.7979 0.0723698
## Empathy:partyid3_namesOther
                                     0.4312037
                                                0.1667804
                                                            2.5855 0.0098049
## Empathy:partyid3_namesRepublican
                                     0.1022037
                                                0.0569504
                                                            1.7946 0.0728877
## Empathy:ethnocentric1
                                     0.0064799
                                                0.0231555
                                                            0.2798 0.7796326
##
## (Intercept)
## Empathy
## num muslim
## sex
## birthyr
## immigrant2
## educ
                                    **
## religpew2
```

```
## religpew3
## religpew4
                                      ***
## religpew5
## religpew6
## religpew7
## religpew8
                                      ***
## religpew9
                                      **
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                     ***
## partyid3_namesNot Sure
## partyid3_namesOther
                                      ***
## partyid3_namesRepublican
## ethnocentric1
                                      ***
## Empathy:num_muslim
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

H11b: (Heterogeneous persuasion and muslim effect: screening over time)

No statistically significant effect of Empathy:num_muslim on Y4.

The heterogeneous effect of the persuasion treatment with and seeing a Muslim refugee profile compared to a Christian refugee profile on the likelihood of favoring the U.S. taking in Syrian refugees who pass a government security screening may degrade in magnitude over time but will persist. We use ControlPersuasion.data.w2.

```
##
  t test of coefficients:
##
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              0.8110000 0.0198937
                                                    40.7666 < 2.2e-16 ***
## num_muslim
                             -0.0145014 0.0072960
                                                    -1.9876 0.046933 *
## sex
                             -0.0064606 0.0073048
                                                    -0.8844
                                                            0.376527
                                                     4.1499 3.404e-05 ***
                             0.0313860 0.0075631
## birthyr
## immigrant2
                             -0.0414186 0.0157479
                                                    -2.6301 0.008572 **
## educ
                              0.0414380 0.0074225
                                                    5.5828 2.543e-08 ***
```

```
## religpew2
                              -0.0149502
                                          0.0219754
                                                     -0.6803
                                                               0.496350
                                          0.0644475
## religpew3
                              0.1362904
                                                      2.1148
                                                               0.034520 *
## religpew4
                              -0.1322978
                                          0.1010325
                                                     -1.3095
                                                               0.190464
## religpew5
                               0.0236374
                                          0.0456607
                                                      0.5177
                                                               0.604717
## religpew6
                               0.1024002
                                          0.0825417
                                                      1.2406
                                                               0.214840
## religpew7
                               0.0951660
                                          0.0671455
                                                      1.4173
                                                               0.156479
## religpew8
                                                      4.4116 1.056e-05 ***
                               0.4056304
                                          0.0919459
## religpew9
                               0.1143229
                                          0.0271360
                                                      4.2130 2.583e-05 ***
## religpew10
                               0.1180470
                                          0.0266757
                                                      4.4253 9.920e-06 ***
## religpew11
                               0.0223841
                                          0.0212983
                                                      1.0510
                                                               0.293338
## religpew12
                               0.0164005
                                                      0.4922
                                                              0.622596
                                          0.0333196
## partyid3_namesIndependent -0.2352929
                                          0.0168685 -13.9486 < 2.2e-16 ***
## partyid3_namesNot Sure
                                                     -6.3801 1.996e-10 ***
                              -0.2171440
                                          0.0340344
## partyid3_namesOther
                              -0.2160587
                                          0.0815897
                                                     -2.6481
                                                              0.008130 **
## partyid3_namesRepublican
                             -0.3810549
                                          0.0200907 -18.9667 < 2.2e-16 ***
## ethnocentric1
                              -0.1027884
                                          0.0082938 -12.3934 < 2.2e-16 ***
## ---
                  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Signif. codes:
```

No statistically significant effect of Persuasion:num_muslim on Y4.

As indicated in our preanalysis plan, as a robustness check for our primary outcome Y2, we check whether the empathy and persuasion treatments have similar positive effects on outcome Y4 that should reasonably have some correlations with Y2. We also look at whether there is an overall reduction in discrimination on any basis in refugee pair profiles (reported differences in scores assigned to Y2 and Y3).

H12a: (Empathy effect on screening)

The empathy prime will significantly increase the respondent's reported inclusionary attitude for the U.S. taking in Syrian refugees who pass a government security screening. We use ControlEmpathy.data.w1.

```
##
## t test of coefficients:
##
##
                                                   Std. Error t value
                                         Estimate
## (Intercept)
                                                   4.2266e-02 17.4380
                                      7.3704e-01
                                      1.0352e-01
## Empathy
                                                   5.5830e-02 1.8542
## sex
                                      -4.4623e-05
                                                   1.4669e-02 -0.0030
                                      1.6753e-02
## birthyr
                                                   1.4436e-02
                                                               1.1605
                                      -3.4357e-02
                                                   3.2284e-02 -1.0642
## immigrant2
                                      3.1216e-02 1.5087e-02 2.0690
## educ
## religpew2
                                      4.6120e-02 4.5847e-02 1.0060
## religpew3
                                      1.1406e-01
                                                   1.1189e-01
                                                               1.0194
## religpew4
                                      9.3212e-02
                                                   1.9426e-01
                                                               0.4798
## religpew5
                                      8.5221e-02
                                                  8.3557e-02 1.0199
## religpew6
                                      -1.2002e-01
                                                   2.9093e-01 -0.4125
## religpew7
                                      1.2637e-01
                                                   1.8433e-01
                                                               0.6856
## religpew8
                                      6.5882e-01 4.8464e-02 13.5939
## religpew9
                                      2.2024e-01
                                                   5.3672e-02
                                                               4.1034
## religpew10
                                                   5.2076e-02
                                                               3.4158
                                      1.7788e-01
## religpew11
                                                   4.3878e-02
                                      7.6443e-02
                                                               1.7422
## religpew12
                                      1.8056e-01
                                                   6.6181e-02 2.7282
## partyid3_namesIndependent
                                                   3.4054e-02 -6.4901
                                      -2.2101e-01
## partyid3_namesNot Sure
                                      -1.8051e-01
                                                   7.1779e-02 -2.5147
## partyid3_namesOther
                                     -3.6269e-01
                                                   2.6209e-01 -1.3838
## partyid3_namesRepublican
                                                   4.1039e-02 -9.4201
                                     -3.8660e-01
## ethnocentric1
                                     -8.2299e-02
                                                  1.7462e-02 -4.7132
## Empathy:sex
                                      1.7088e-03 2.0677e-02 0.0826
```

```
4.4281e-02 2.0687e-02 2.1405
## Empathy:birthyr
                                      6.2549e-03 4.4558e-02 0.1404
## Empathy:immigrant2
                                      1.3002e-02 2.0887e-02 0.6225
## Empathy:educ
## Empathy:religpew2
                                     -1.0391e-01 6.2521e-02 -1.6621
## Empathy:religpew3
                                      2.9735e-02 1.5629e-01 0.1903
                                      -5.5159e-01 2.3847e-01 -2.3130
## Empathy:religpew4
                                     -2.5239e-03 1.2791e-01 -0.0197
## Empathy:religpew5
## Empathy:religpew6
                                      2.8257e-01 3.0997e-01 0.9116
## Empathy:religpew7
                                     -4.7509e-02 2.0308e-01 -0.2339
                                      -5.5293e-01 9.8818e-02 -5.5954
## Empathy:religpew8
## Empathy:religpew9
                                     -2.5398e-01 7.6457e-02 -3.3218
## Empathy:religpew10
                                      -1.3222e-01 7.6897e-02 -1.7194
                                      -8.8128e-02 6.0636e-02 -1.4534
## Empathy:religpew11
                                      -1.8754e-01 9.0167e-02 -2.0799
## Empathy:religpew12
## Empathy:partyid3_namesIndependent 3.9770e-02 4.7148e-02 0.8435
## Empathy:partyid3_namesNot Sure
                                      -3.0678e-05 9.7881e-02 -0.0003
## Empathy:partyid3_namesOther
                                       3.2454e-02 3.2983e-01 0.0984
## Empathy:partyid3_namesRepublican
                                     -1.5326e-02 5.7189e-02 -0.2680
                                      -2.1141e-02 2.3520e-02 -0.8989
## Empathy:ethnocentric1
##
                                      Pr(>|t|)
                                      < 2.2e-16 ***
## (Intercept)
## Empathy
                                      0.0638717 .
## sex
                                      0.9975731
                                      0.2460093
## birthyr
## immigrant2
                                      0.2873777
## educ
                                      0.0386900
## religpew2
                                      0.3145765
## religpew3
                                      0.3081507
## religpew4
                                      0.6314081
## religpew5
                                      0.3079117
                                      0.6800075
## religpew6
## religpew7
                                      0.4930571
## religpew8
                                      < 2.2e-16 ***
                                      4.258e-05 ***
## religpew9
## religpew10
                                      0.0006505 ***
## religpew11
                                      0.0816533 .
## religpew12
                                      0.0064309 **
## partyid3_namesIndependent
                                      1.112e-10 ***
## partyid3_namesNot Sure
                                      0.0120005 *
## partyid3_namesOther
                                      0.1665883
## partyid3_namesRepublican
                                      < 2.2e-16 ***
## ethnocentric1
                                      2.631e-06 ***
                                      0.9341436
## Empathy:sex
## Empathy:birthyr
                                      0.0324548 *
## Empathy:immigrant2
                                      0.8883770
## Empathy:educ
                                      0.5336768
                                      0.0966750
## Empathy:religpew2
## Empathy:religpew3
                                      0.8491299
## Empathy:religpew4
                                     0.0208370
## Empathy:religpew5
                                      0.9842596
## Empathy:religpew6
                                     0.3620962
## Empathy:religpew7
                                      0.8150545
## Empathy:religpew8
                                      2.548e-08 ***
## Empathy:religpew9
                                     0.0009126 ***
## Empathy:religpew10
                                     0.0857165
## Empathy:religpew11
                                     0.1462908
## Empathy:religpew12
                                      0.0376756 *
```

```
## Empathy:partyid3_namesIndependent 0.3990565
## Empathy:partyid3_namesNot Sure 0.9997500
## Empathy:partyid3_namesOther 0.9216303
## Empathy:partyid3_namesRepublican 0.7887344
## Empathy:ethnocentric1 0.3688509
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

There is a small positive, empathy effect (coefficient=0.010352) on likelihood of being in favor of taking in Syrian refugees who pass screening, though this is at a pvalue of 0.0638717.

Below for robustness check with logistic regression:

```
## Loading required package: Hmisc
## Loading required package: Formula
##
## Attaching package: 'Hmisc'
   The following objects are masked from 'package:memisc':
##
##
       %nin%, html
##
   The following object is masked from 'package:plotly':
##
##
       subplot
##
  The following object is masked from 'package:survey':
##
##
       deff
   The following objects are masked from 'package:plyr':
##
##
       is.discrete, summarize
##
   The following objects are masked from 'package:dplyr':
##
##
##
       src, summarize
## The following objects are masked from 'package:base':
##
##
       format.pval, units
## Loading required package: SparseM
##
## Attaching package: 'SparseM'
## The following object is masked from 'package:base':
##
##
       backsolve
##
## Attaching package: 'rms'
## The following object is masked from 'package:calibrate':
##
##
       calibrate
## The following object is masked from 'package:survey':
##
##
       calibrate
## The following object is masked from 'package:lmtest':
##
```

```
##
       lrtest
## Logistic Regression Model
##
    lrm(formula = y4 ~ Empathy + sex + Empathy * sex + birthyr +
##
        Empathy * birthyr + immigrant2 + Empathy * immigrant2 + educ +
##
##
        Empathy * educ + relignew + Empathy * relignew + partyid3_names +
##
        Empathy * partyid3 names + ethnocentric1 + Empathy * ethnocentric1,
        data = ControlEmpathy.data.w1, x = T, y = T)
##
##
##
                                                   Model Likelihood
                                                                         Discrimination
                                                                                            Rank Discrim.
##
                                                      Ratio Test
                                                                            Indexes
                                                                                               Indexes
##
    Obs
                                          1800
                                                  LR chi2
                                                               432.96
                                                                         R2
                                                                                  0.291
                                                                                            C
                                                                                                    0.783
     0
                                           679
                                                                                                    0.567
##
                                                  d.f.
                                                                                  1.398
                                                                                            Dxy
                                                                         g
##
     1
                                          1121
                                                  Pr(> chi2) <0.0001
                                                                                  4.046
                                                                                                    0.567
                                                                                            gamma
                                                                         gr
                ControlEmpathy.data.w1$caseid
##
                                                                         gp
                                                                                  0.262
                                                                                            tau-a
                                                                                                    0.266
##
    Clusters
                                          1800
                                                                         Brier
                                                                                  0.182
##
    max |deriv|
                                         0.003
##
##
                                          Coef
                                                  S.E.
                                                          Wald Z Pr(>|Z|)
##
                                           1.2476 0.2303 5.42 < 0.0001
    Intercept
##
    Empathy
                                           0.6019 0.3317
                                                          1.81
                                                                 0.0696
##
   sex[1]
                                          -0.0039 0.0766 -0.05
                                                                 0.9589
   birthyr[1]
                                           0.0945 0.0764 1.24
##
                                                                 0.2165
   immigrant2
                                          -0.1829 0.1692 -1.08
                                                                0.2797
##
                                           0.1756 0.0814 2.16
##
   educ[1]
                                                                0.0311
                                           0.2096 0.2221 0.94
##
   religpew=2
                                                                0.3453
   religpew=3
                                           0.4950 0.5346
                                                          0.93
                                                                0.3546
                                           0.4692 0.9724
                                                          0.48
                                                                0.6294
##
   religpew=4
##
   religpew=5
                                           0.4596 0.4617
                                                          1.00
                                                                0.3195
##
                                          -0.6042 1.2996 -0.46
   religpew=6
                                                                0.6420
##
                                           0.6294 0.9017
                                                          0.70
                                                                 0.4851
   religpew=7
##
   religpew=8
                                           7.9719 1.0282
                                                          7.75
                                                                 < 0.0001
##
   religpew=9
                                           1.4450 0.4078
                                                          3.54
                                                                 0.0004
##
   religpew=10
                                           1.0170 0.3165
                                                          3.21
                                                                 0.0013
                                           0.3614 0.2133
                                                          1.69
                                                                0.0902
##
   religpew=11
##
   religpew=12
                                           0.8955 0.3737
                                                          2.40
                                                                0.0166
                                          -1.2177 0.1935 -6.29
##
    partyid3_names=Independent
                                                                 <0.0001
    partyid3 names=Not Sure
                                          -0.9984 0.3375 -2.96
                                                                 0.0031
##
   partyid3_names=Other
                                          -1.9100 1.0899 -1.75
                                                                 0.0797
##
    partyid3_names=Republican
                                          -1.8912 0.2172 -8.71
                                                                 <0.0001
                                          -0.4460 0.0974 -4.58
##
    ethnocentric1[1]
                                                                 <0.0001
                                           0.0292 0.1129 0.26
   Empathy * sex[1]
                                                                 0.7957
##
    Empathy * birthyr[1]
                                           0.2383 0.1159
                                                          2.06
                                                                0.0397
                                           0.0309 0.2449
##
    Empathy * immigrant2
                                                          0.13
                                                                 0.8995
                                           0.0687 0.1184 0.58
##
    Empathy * educ[1]
                                                                 0.5621
##
    Empathy * relignew=2
                                          -0.5216 0.3164 -1.65
                                                                 0.0993
                                           0.1650 0.8005 0.21
##
    Empathy * relignew=3
                                                                 0.8367
##
    Empathy * relignew=4
                                          -2.9348 1.5694 -1.87
                                                                 0.0615
                                           0.0072 0.8088 0.01
##
    Empathy * relignew=5
                                                                 0.9929
##
    Empathy * religpew=6
                                           1.7582 1.7199
                                                          1.02
                                                                0.3066
##
    Empathy * religpew=7
                                           0.0149 1.2840 0.01
                                                                 0.9908
##
    Empathy * religpew=8
                                          -2.6449 1.3399 -1.97
                                                                 0.0484
##
   Empathy * religpew=9
                                          -1.5344 0.5464 -2.81
                                                                 0.0050
##
   Empathy * relignew=10
                                          -0.6762 0.5040 -1.34
                                                                 0.1797
##
    Empathy * religpew=11
                                          -0.4379 0.3166 -1.38
                                                                0.1667
    Empathy * relignew=12
                                          -0.9244 0.4955 -1.87 0.0621
```

```
##
    Empathy * partyid3_names=Independent 0.1105 0.2840 0.39
                                                              0.6974
##
   Empathy * partyid3 names=Not Sure
                                         -0.0686 0.4797 -0.14
                                                              0.8863
##
   Empathy * partyid3_names=Other
                                          0.0583 1.4528 0.04
                                                              0.9680
##
   Empathy * partyid3_names=Republican -0.1838 0.3160 -0.58 0.5608
##
   Empathy * ethnocentric1[1]
                                         -0.1613 0.1414 -1.14 0.2541
##
```

H12b: (Persuasion effect on screening)

The persuasion treatment will significantly increase the respondent's reported inclusionary attitude for the U.S. taking in Syrian refugees who pass a government security screening. We use ControlPersuasion.data.w1.

```
## t test of coefficients:
##
##
                                          Estimate Std. Error t value
                                        7.3704e-01 4.2266e-02 17.4380
## (Intercept)
                                        3.5495e-02 5.6822e-02 0.6247
## Persuasion
                                        -4.4623e-05 1.4669e-02 -0.0030
## sex
## birthyr
                                        1.6753e-02 1.4436e-02 1.1605
## immigrant2
                                       -3.4357e-02 3.2284e-02 -1.0642
## educ
                                        3.1216e-02 1.5087e-02 2.0690
## religpew2
                                        4.6120e-02 4.5847e-02 1.0060
## religpew3
                                        1.1406e-01 1.1189e-01 1.0194
## religpew4
                                        9.3212e-02 1.9426e-01 0.4798
## religpew5
                                        8.5221e-02 8.3557e-02 1.0199
                                        -1.2002e-01 2.9093e-01 -0.4125
## religpew6
## religpew7
                                        1.2637e-01 1.8433e-01 0.6856
## religpew8
                                        6.5882e-01 4.8464e-02 13.5939
## religpew9
                                        2.2024e-01 5.3672e-02 4.1034
## religpew10
                                        1.7788e-01 5.2076e-02 3.4158
## religpew11
                                        7.6443e-02 4.3878e-02 1.7422
                                        1.8056e-01 6.6181e-02 2.7282
## religpew12
                                       -2.2101e-01 3.4054e-02 -6.4901
## partyid3_namesIndependent
                                       -1.8051e-01 7.1779e-02 -2.5147
## partyid3_namesNot Sure
                                       -3.6269e-01 2.6209e-01 -1.3838
## partyid3_namesOther
## partyid3_namesRepublican
                                       -3.8660e-01 4.1039e-02 -9.4201
                                       -8.2299e-02 1.7462e-02 -4.7132
## ethnocentric1
## Persuasion:sex
                                        9.6744e-03 2.0520e-02 0.4715
                                        2.8600e-02 1.9689e-02 1.4525
## Persuasion:birthyr
## Persuasion:immigrant2
                                       -3.1271e-02 4.4725e-02 -0.6992
                                        2.3886e-02 2.0994e-02 1.1378
## Persuasion:educ
## Persuasion:religpew2
                                        4.2803e-02 6.3822e-02 0.6707
## Persuasion:religpew3
                                       -6.2454e-02 2.2130e-01 -0.2822
                                       -1.4845e-01 2.6155e-01 -0.5676
## Persuasion:religpew4
## Persuasion:religpew5
                                       -6.0939e-02 1.2320e-01 -0.4946
## Persuasion:religpew6
                                        1.7806e-01 3.3055e-01 0.5387
## Persuasion:religpew7
                                        1.1735e-01 2.0180e-01 0.5815
## Persuasion:religpew9
                                       -8.2595e-02 7.1526e-02 -1.1548
## Persuasion:religpew10
                                        9.5978e-03 7.5566e-02 0.1270
## Persuasion:religpew11
                                       -5.9147e-02 6.0903e-02 -0.9712
## Persuasion:religpew12
                                        -5.4475e-02 9.4000e-02 -0.5795
## Persuasion:partyid3_namesIndependent
                                       5.4844e-03 4.7857e-02 0.1146
## Persuasion:partyid3_namesNot Sure
                                        -1.0818e-01
                                                    1.0004e-01 -1.0814
## Persuasion:partyid3_namesOther
                                        2.5207e-01 2.8964e-01 0.8703
## Persuasion:partyid3_namesRepublican
                                        6.1666e-02 5.7535e-02 1.0718
                                        -1.6875e-02 2.2559e-02 -0.7480
## Persuasion:ethnocentric1
```

```
Pr(>|t|)
##
## (Intercept)
                                         < 2.2e-16 ***
## Persuasion
                                         0.5322767
## sex
                                         0.9975731
## birthyr
                                         0.2460092
## immigrant2
                                         0.2873776
## educ
                                         0.0386899 *
## religpew2
                                         0.3145764
## religpew3
                                         0.3081506
## religpew4
                                         0.6314081
## religpew5
                                         0.3079116
## religpew6
                                         0.6800074
## religpew7
                                         0.4930570
## religpew8
                                         < 2.2e-16 ***
## religpew9
                                         4.258e-05 ***
## religpew10
                                         0.0006505 ***
## religpew11
                                         0.0816532
## religpew12
                                         0.0064308 **
## partyid3_namesIndependent
                                         1.112e-10 ***
## partyid3 namesNot Sure
                                         0.0120004 *
## partyid3_namesOther
                                         0.1665882
## partyid3_namesRepublican
                                         < 2.2e-16 ***
## ethnocentric1
                                         2.631e-06 ***
## Persuasion:sex
                                         0.6373703
## Persuasion:birthyr
                                         0.1465320
## Persuasion:immigrant2
                                         0.4845307
## Persuasion:educ
                                         0.2553755
## Persuasion:religpew2
                                         0.5025221
## Persuasion:religpew3
                                         0.7778129
## Persuasion:religpew4
                                         0.5704061
## Persuasion:religpew5
                                         0.6209349
## Persuasion:religpew6
                                         0.5901839
## Persuasion:religpew7
                                         0.5609675
## Persuasion:religpew9
                                         0.2483450
## Persuasion:religpew10
                                         0.8989463
## Persuasion:religpew11
                                         0.3315985
## Persuasion:religpew12
                                         0.5623113
## Persuasion:partyid3_namesIndependent 0.9087755
                                         0.2796714
## Persuasion:partyid3_namesNot Sure
## Persuasion:partyid3_namesOther
                                         0.3842521
## Persuasion:partyid3_namesRepublican 0.2839555
## Persuasion:ethnocentric1
                                         0.4545528
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
There is no statistically significant effect of persuasion on screening (Y4).
## Logistic Regression Model
##
##
   lrm(formula = y4 ~ Persuasion + sex + Persuasion * sex + birthyr +
        Persuasion * birthyr + immigrant2 + Persuasion * immigrant2 +
##
##
        educ + Persuasion * educ + partyid3_names + Persuasion *
##
        partyid3_names + ethnocentric1 + Persuasion * ethnocentric1,
##
        data = ControlPersuasion.data.w1, x = T, y = T)
##
##
                                                      Model Likelihood
                                                                            Discrimination
                                                                                              Rank Discrim.
##
                                                         Ratio Test
                                                                               Indexes
                                                                                                 Indexes
##
   Obs
                                             1800
                                                     LR chi2 395.15
                                                                            R2 0.268
                                                                                                      0.771
```

```
0
##
                                              694
                                                                                      1.289
                                                                                                       0.541
                                                                                               Dxy
                                                                            g
##
                                             1106
                                                     Pr(> chi2) <0.0001
                                                                                      3.629
                                                                                                       0.542
     1
                                                                            gr
                                                                                               gamma
##
    Cluster on ControlPersuasion.data.w1$caseid
                                                                                      0.252
                                                                                               tau-a
                                                                                                       0.257
                                                                            gp
##
    Clusters
                                             1800
                                                                            Brier
                                                                                      0.188
##
    max |deriv|
                                            1e-12
##
##
                                             Coef
                                                     S.E.
                                                             Wald Z Pr(>|Z|)
##
    Intercept
                                              1.5506 0.1860 8.34 < 0.0001
##
    Persuasion
                                              0.2774 0.2605
                                                             1.06
                                                                    0.2869
##
    sex[1]
                                              0.0171 0.0747
                                                              0.23
                                                                    0.8191
##
    birthyr[1]
                                              0.1441 0.0727 1.98
                                                                    0.0474
##
    immigrant2
                                             -0.1752 0.1598 -1.10
                                                                    0.2731
##
                                              0.1739 0.0783 2.22
                                                                    0.0263
    educ[1]
    partyid3_names=Independent
##
                                             -1.1067 0.1884 -5.87
                                                                    < 0.0001
                                             -0.9997 0.3321 -3.01
##
    partyid3_names=Not Sure
                                                                    0.0026
##
    partyid3_names=Other
                                             -2.1714 1.1160 -1.95
                                                                    0.0517
    partyid3_names=Republican
                                             -1.9327 0.2111 -9.16
##
                                                                    <0.0001
##
    ethnocentric1[1]
                                             -0.5081 0.0953 -5.33
                                                                    <0.0001
##
    Persuasion * sex[1]
                                              0.0652 0.1093 0.60
                                                                    0.5505
   Persuasion * birthyr[1]
##
                                              0.1473 0.1046 1.41
                                                                    0.1591
    Persuasion * immigrant2
                                             -0.2880 0.2324 -1.24
                                                                    0.2154
##
##
    Persuasion * educ[1]
                                              0.1408 0.1139 1.24
                                                                    0.2164
##
    Persuasion * partyid3_names=Independent -0.1167 0.2717 -0.43
   Persuasion * partyid3_names=Not Sure
##
                                             -0.5464 0.4697 -1.16
                                                                    0.2447
    Persuasion * partyid3 names=Other
                                              1.6943 1.3643
                                                             1.24
                                                                    0.2143
##
    Persuasion * partyid3_names=Republican
##
                                              0.1937 0.3000 0.65
                                                                    0.5184
##
    Persuasion * ethnocentric1[1]
                                             -0.0891 0.1278 -0.70 0.4858
```

H13a: (Empathy effect on difference in scores of refugee pair)

##

The empathy prime will significantly decrease the magnitude of the average difference in admission scores across refugee pairs (i.e. reduce discrimination on any basis). We use ControlEmpathy.data.y2y3 and create a variable diffy2y3 that is the absolute difference between the respondent's reported score for Y2 and for Y3 in wave 1.

```
##
## t test of coefficients:
##
##
                                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                       0.969803
                                                  0.123070 7.8801 3.933e-15
## Empathy
                                      0.011538
                                                  0.169747 0.0680
                                                                   0.945812
## sex
                                      0.057816
                                                  0.041947 1.3783
                                                                    0.168166
## birthyr
                                      -0.065487
                                                  0.040927 -1.6001
                                                                    0.109642
## immigrant2
                                      -0.135570
                                                  0.092613 -1.4638
                                                                    0.143298
                                      -0.042402
                                                  0.044135 -0.9607
## educ
                                                                    0.336738
## religpew2
                                      0.066416
                                                  0.132296
                                                            0.5020
                                                                    0.615668
## religpew3
                                      -0.267260
                                                  0.293874 -0.9094
                                                                    0.363161
## religpew4
                                      -0.226296
                                                  0.383182 -0.5906
                                                                   0.554833
## religpew5
                                      -0.117254
                                                  0.247342 -0.4741
                                                                    0.635480
## religpew6
                                       2.093243
                                                  1.196960
                                                            1.7488
                                                                    0.080383
## religpew7
                                                  0.494172 1.0002
                                      0.494291
                                                                    0.317239
## religpew8
                                                            6.7484 1.653e-11
                                      0.953887
                                                  0.141350
## religpew9
                                      0.029525
                                                  0.174752 0.1690
                                                                    0.865839
## religpew10
                                      -0.162000
                                                  0.144201 -1.1234
                                                                    0.261305
## religpew11
                                                  0.114882 -0.9442
                                      -0.108469
                                                                    0.345124
## religpew12
                                      -0.153895
                                                  0.227609 -0.6761
                                                                    0.498982
                                                  0.096595 -0.3222 0.747311
## partyid3_namesIndependent
                                      -0.031123
```

```
0.201036 0.2252 0.821856
## partyid3_namesNot Sure
                                      0.045267
                                                 0.245124 -1.1513 0.249671
## partyid3 namesOther
                                     -0.282205
                                                 0.124826 1.7460 0.080861
## partyid3 namesRepublican
                                      0.217951
## ethnocentric1
                                      0.145367
                                                 0.051551 2.8199 0.004822
## Empathy:sex
                                     -0.050714
                                                 0.060214 -0.8422 0.399697
                                                  0.059397 -0.4389
## Empathy:birthyr
                                     -0.026071
                                                                    0.660728
                                                                    0.427992
## Empathy:immigrant2
                                                 0.128807 0.7927
                                      0.102104
## Empathy:educ
                                      0.037685
                                                  0.062996 0.5982 0.549730
                                     -0.200202
## Empathy:religpew2
                                                  0.181720 -1.1017 0.270639
## Empathy:religpew3
                                     -0.190150
                                                  0.431628 -0.4405
                                                                   0.659562
                                                 0.474079 -0.9974 0.318636
## Empathy:religpew4
                                     -0.472826
## Empathy:religpew5
                                      0.082002
                                                  0.389667 0.2104 0.833331
                                                  1.221231 -2.3535
                                     -2.874176
                                                                   0.018633
## Empathy:religpew6
## Empathy:religpew7
                                     -0.674862
                                                  0.556830 -1.2120 0.225577
                                                  0.196430 -4.0021 6.362e-05
## Empathy:religpew8
                                     -0.786138
## Empathy:religpew9
                                     -0.202923
                                                  0.234932 -0.8638
                                                                   0.387763
                                                  0.202620 -0.1467 0.883401
## Empathy:religpew10
                                     -0.029717
## Empathy:religpew11
                                     -0.023333
                                                  0.176685 -0.1321
                                                                   0.894941
## Empathy:religpew12
                                      0.036429
                                                  0.294265 0.1238 0.901481
## Empathy:partyid3_namesIndependent 0.149871
                                                  0.138390 1.0830 0.278872
## Empathy:partyid3_namesNot Sure
                                                  0.248977 -1.0840 0.278432
                                     -0.269880
## Empathy:partyid3_namesOther
                                     -0.451603
                                                  0.458792 -0.9843
                                                                    0.324998
## Empathy:partyid3_namesRepublican
                                      0.055996
                                                  0.179768 0.3115 0.755440
## Empathy:ethnocentric1
                                      0.047081
                                                 0.068298 0.6893 0.490635
##
## (Intercept)
                                     ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
                                     ***
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
## ethnocentric1
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
```

```
## Empathy:religpew8 ***
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

##

No statistically significant effect on Empathy (vs Persuasion). ### H13b: (Persuasion effect on difference in scores of refugee pair) The persuasion treatment will significantly decrease the magnitude of the average difference in admission scores across refugee pairs (i.e. reduce discrimination on any basis). We use ControlPersuasion.data.y2y3 and create a variable diffy2y3 that is the absolute difference between the respondent's reported score for Y2 and for Y3 in wave 1.

```
## t test of coefficients:
##
##
                                       Estimate Std. Error t value
                                     0.96980255 0.12305263 7.8812
## (Intercept)
## Persuasion
                                    -0.04144996 0.16838113 -0.2462
## sex
                                     0.05781647 0.04194160 1.3785
                                    -0.06548681 0.04092169 -1.6003
## birthyr
## immigrant2
                                    -0.13557043 0.09260031 -1.4640
                                    -0.04240171 0.04412927 -0.9609
## educ
                                     0.06641618 0.13227696 0.5021
## religpew2
## religpew3
                                    -0.26726007 0.29383320 -0.9096
## religpew4
                                    ## religpew5
                                    -0.11725379   0.24730772   -0.4741
## religpew6
                                     2.09324322 1.19679235 1.7490
## religpew7
                                     0.49429092 0.49410285 1.0004
                                     0.95388657 0.14133026 6.7493
## religpew8
                                     0.02952500 0.17472707 0.1690
## religpew9
                                    -0.16200021 0.14418104 -1.1236
## religpew10
## religpew11
                                    -0.10846869 0.11486616 -0.9443
## religpew12
                                    ## partyid3_namesIndependent
                                    -0.03112314 0.09658094 -0.3222
## partyid3_namesNot Sure
                                     0.04526732 0.20100824 0.2252
## partyid3 namesOther
                                    -0.28220471 0.24508939 -1.1514
## partyid3 namesRepublican
                                     0.21795090 0.12480803 1.7463
## ethnocentric1
                                     0.14536734 0.05154383 2.8203
## Persuasion:sex
                                     0.00372856 0.06147893 0.0606
## Persuasion:birthyr
                                    -0.02227930 0.06073979 -0.3668
## Persuasion:immigrant2
                                     0.15592697 0.13099153 1.1904
## Persuasion:educ
                                     0.05278548 0.06387219 0.8264
                                    -0.02952229   0.19090804   -0.1546
## Persuasion:religpew2
## Persuasion:religpew3
                                    0.09089034 0.50527027 0.1799
## Persuasion:religpew4
## Persuasion:religpew5
                                    0.05390525 0.37437394 0.1440
## Persuasion:religpew6
                                    -2.25660377 1.22845724 -1.8369
## Persuasion:religpew7
                                    -0.16424447 0.24050538 -0.6829
## Persuasion:religpew9
## Persuasion:religpew10
                                    0.19551693 0.23196245 0.8429
## Persuasion:religpew11
```

```
## Persuasion:religpew12
                                         0.24096881 0.32310737 0.7458
## Persuasion:partyid3 namesIndependent
                                         ## Persuasion:partyid3 namesNot Sure
                                        -0.05624775 0.28038034 -0.2006
## Persuasion:partyid3_namesOther
                                        -0.01205450 0.36550367 -0.0330
## Persuasion:partyid3_namesRepublican -0.04209560 0.17806226 -0.2364
## Persuasion:ethnocentric1
                                         0.00033248 0.07446378 0.0045
##
                                         Pr(>|t|)
## (Intercept)
                                        3.899e-15 ***
## Persuasion
                                         0.805562
## sex
                                         0.168107
## birthyr
                                         0.109592
## immigrant2
                                         0.143242
## educ
                                         0.336670
## religpew2
                                         0.615618
## religpew3
                                         0.363093
## religpew4
                                         0.554778
## religpew5
                                         0.635433
## religpew6
                                         0.080341
## religpew7
                                         0.317172
## religpew8
                                        1.642e-11 ***
## religpew9
                                         0.865820
## religpew10
                                         0.261238
## religpew11
                                         0.345056
## religpew12
                                         0.498922
## partyid3 namesIndependent
                                         0.747276
## partyid3_namesNot Sure
                                         0.821831
## partyid3_namesOther
                                         0.249604
## partyid3_namesRepublican
                                         0.080818
## ethnocentric1
                                         0.004816 **
## Persuasion:sex
                                         0.951642
## Persuasion:birthyr
                                         0.713783
## Persuasion:immigrant2
                                         0.233958
## Persuasion:educ
                                         0.408601
## Persuasion:religpew2
                                         0.877110
## Persuasion:religpew3
                                         0.984466
## Persuasion:religpew4
                                         0.857250
## Persuasion:religpew5
                                         0.885516
## Persuasion:religpew6
                                         0.066274
## Persuasion:religpew7
                                         0.582733
## Persuasion:religpew9
                                         0.494691
## Persuasion:religpew10
                                         0.399332
## Persuasion:religpew11
                                         0.717510
## Persuasion:religpew12
                                         0.455830
## Persuasion:partyid3_namesIndependent
                                         0.657441
## Persuasion:partyid3_namesNot Sure
                                         0.841009
## Persuasion:partyid3_namesOther
                                         0.973691
## Persuasion:partyid3_namesRepublican
                                         0.813124
## Persuasion:ethnocentric1
                                         0.996438
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Persuasion on difference in scores.

H14a: (Difference between Empathy and Persuasion for refugee scores)

Respondents who receive the empathy prime will have significantly different point scores reported for refugee profiles than those in the persuasion group. We use EmpathyPersuasion.data.y2.w1.

```
## t test of coefficients:
##
##
                                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                     5.1978182 0.1512197 34.3726 < 2.2e-16
                                    0.0749811 0.2121794 0.3534 0.723807
## Empathy
## sex
                                    0.0028263 0.0566810 0.0499 0.960233
## birthyr
                                    0.2326338  0.0513004  4.5347  5.830e-06
## immigrant2
                                    -0.1533665 0.1218264 -1.2589
                                                                 0.208096
                                    0.1382720 0.0565782 2.4439
## educ
                                                                 0.014545
                                    0.1093724 0.1655833 0.6605
## religpew2
                                                                 0.508929
## religpew3
                                    0.4521147 0.4911222 0.9206
                                                                 0.357293
                                    0.6643565 0.5358058 1.2399
## religpew4
                                                                 0.215032
## religpew5
                                    -0.0190262
                                               0.3593248 -0.0529
                                                                  0.957773
                                    0.8276438 0.5966640 1.3871
## religpew6
                                                                 0.165434
## religpew7
                                    0.8831621 0.3472618 2.5432
                                                                 0.010998
                                    ## religpew8
                                    0.5742257 0.2130582 2.6952
## religpew9
                                                                 0.007046
## religpew10
                                    0.3478244 0.2305116 1.5089 0.131348
## religpew11
                                   -0.0888500 0.1678446 -0.5294 0.596568
## religpew12
                                    0.0454757 0.2936054 0.1549 0.876913
                                    -0.8908601 0.1359714 -6.5518 5.944e-11
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                    -0.8537801 0.2734901 -3.1218 0.001802
## partyid3_namesOther
                                    -1.0937672   0.4474200   -2.4446   0.014517
## partyid3 namesRepublican
                                    -1.4157299 0.1537405 -9.2086 < 2.2e-16
                                   -0.3257858 0.0722741 -4.5076 6.625e-06
## ethnocentric1
## Empathy:sex
                                    0.0045115 0.0799107 0.0565 0.954978
                                    ## Empathy:birthyr
## Empathy:immigrant2
                                    -0.0181968 0.1724651 -0.1055
                                                                 0.915973
## Empathy:educ
                                    0.0466138 0.0798556 0.5837
                                                                 0.559417
## Empathy:religpew2
                                   -0.0404120
                                               0.2304138 -0.1754
                                                                 0.860778
## Empathy:religpew3
                                    -0.2680774 0.7092649 -0.3780
                                                                 0.705464
## Empathy:religpew4
                                   -1.7898893 0.9766685 -1.8326
                                                                 0.066883
## Empathy:religpew5
                                   -0.1050732  0.5120642  -0.2052
                                                                 0.837423
                                   -0.4981136 0.9430057 -0.5282
## Empathy:religpew6
                                                                 0.597358
## Empathy:religpew7
                                   0.1280880 0.4130653 0.3101 0.756498
## Empathy:religpew9
                                   -0.6346245  0.3203753  -1.9809
                                                                 0.047630
## Empathy:religpew10
                                   -0.2470756  0.3212330  -0.7691  0.441823
## Empathy:religpew11
                                   -0.0742730 0.2353647 -0.3156 0.752338
## Empathy:religpew12
                                    -0.1634296  0.3747902  -0.4361
                                                                 0.662805
## Empathy:partyid3_namesIndependent 0.3713669 0.1860021 1.9966
                                                                 0.045897
## Empathy:partyid3 namesNot Sure
                                    0.1078550 0.3763907 0.2866
                                                                 0.774462
## Empathy:partyid3_namesOther
                                    -0.2853502 1.6937360 -0.1685
                                                                 0.866214
                                   0.1729142 0.2198201 0.7866
## Empathy:partyid3_namesRepublican
                                                                  0.431524
## Empathy:ethnocentric1
                                    -0.0439333 0.0991628 -0.4430
                                                                 0.657744
##
## (Intercept)
                                    ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
```

```
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                     ***
## partyid3 namesNot Sure
                                     **
## partyid3_namesOther
## partyid3_namesRepublican
                                     ***
## ethnocentric1
                                     ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent *
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of Empathy (vs Persuasion) on difference in refugee scores.

H14b: (Difference between Empathy and Persuasion for accepting refugees who pass security screening)

Respondents who receive the empathy prime will have a significantly different preference for the U.S. taking in Syrian refugees who pass a government security screening than respondents in the persuasion group. We use EmpathyPersuasion.data.w1.

```
##
## t test of coefficients:
##
##
                           Estimate Std. Error t value Pr(>|t|)
                          0.7725304 0.0379785 20.3412 < 2.2e-16
## (Intercept)
## Empathy
                          ## sex
                          0.0453522 0.0133894 3.3872 0.0007218
## birthyr
## immigrant2
                         ## educ
                          0.0551024 0.0145987 3.7745 0.0001657
                          0.0889232 0.0443996 2.0028 0.0453525
## religpew2
## religpew3
                          0.0516103  0.1909274  0.2703  0.7869504
                         ## religpew4
## religpew5
                          0.0242821 0.0905404 0.2682 0.7885840
## religpew6
```

```
## religpew7
                                ## religpew8
                                0.1376414 0.0472779 2.9113 0.0036443
## religpew9
## religpew10
                                ## religpew11
                                0.0172964 0.0422359 0.4095 0.6822085
                                ## religpew12
## partyid3_namesIndependent
                               -0.2155280 0.0336249 -6.4098 1.867e-10
## partyid3 namesNot Sure
                               -0.2886855 0.0696803 -4.1430 3.591e-05
## partyid3_namesOther
                               -0.1106117 0.1232863 -0.8972 0.3697386
## partyid3_namesRepublican
                               -0.3249314 0.0403239 -8.0580 1.417e-15
                               -0.0991740 0.0142834 -6.9433 5.369e-12
## ethnocentric1
## Empathy:sex
                               -0.0079656 0.0204516 -0.3895 0.6969633
                                0.0156811 0.0199712 0.7852 0.4324527
## Empathy:birthyr
                                0.0375257 0.0436026 0.8606 0.3895586
## Empathy:immigrant2
                               ## Empathy:educ
## Empathy:religpew2
                               -0.1467180 0.0614674 -2.3869 0.0170950
                                0.0921890 0.2199095 0.4192 0.6751114
## Empathy:religpew3
## Empathy:religpew4
                               ## Empathy:religpew5
                               0.0584146 0.1325804 0.4406 0.6595585
## Empathy:religpew6
                               0.1045160 0.1899028 0.5504 0.5821386
                               ## Empathy:religpew7
                               -0.1713812 0.0721118 -2.3766 0.0175794
## Empathy:religpew9
                               ## Empathy:religpew10
## Empathy:religpew11
                               -0.0289814 0.0594583 -0.4874 0.6260188
## Empathy:religpew12
                               -0.1330674 0.0905891 -1.4689 0.1420355
## Empathy:partyid3_namesIndependent 0.0342854 0.0468391 0.7320 0.4642762
## Empathy:partyid3_namesNot Sure
                                -0.2196204 0.2351569 -0.9339 0.3504675
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
                               -0.0769922 0.0566772 -1.3584 0.1745006
                               -0.0042666 0.0212674 -0.2006 0.8410200
## Empathy:ethnocentric1
##
## (Intercept)
                               ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
                               **
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                               ***
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                               ***
## ethnocentric1
                               ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
```

```
## Empathy:religpew2
## Empathy:relignew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant difference between Empathy/Persuasion effects on screening (Y4).

H14c: (Difference between Empathy and Persuasion for writing a letter)

The empathy prime group will have a significantly different preference compared to the persuasion group toward sending an anonymous letter to the White House. We use EmpathyPersuasion.data.w1.

```
## t test of coefficients:
##
##
                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                               0.2180303 0.0334371 6.5206 9.124e-11
                               0.1298184 0.0492897 2.6338 0.0085180
## Empathy
## sex
                               ## birthyr
                               0.0164484 0.0122863 1.3388 0.1808218
## immigrant2
                               ## educ
                               0.0481862 0.0130411 3.6950 0.0002267
                              -0.0017504 0.0341612 -0.0512 0.9591400
## religpew2
## religpew3
                               0.0594455 0.1461740 0.4067 0.6842950
## religpew4
                               -0.0545651 0.1264515 -0.4315 0.6661506
## religpew5
                               -0.0054848 0.0722591 -0.0759 0.9395036
                              -0.0700345 0.0820886 -0.8532 0.3936883
## religpew6
## religpew7
                               0.1850833  0.1229518  1.5053  0.1324183
                               0.1578168  0.2979701  0.5296  0.5964286
## religpew8
                               0.0671086 0.0576688 1.1637 0.2447074
## religpew9
## religpew10
                               -0.0331804 0.0317206 -1.0460 0.2956959
## religpew11
                               0.0910374 0.0643204 1.4154 0.1571361
## religpew12
## partyid3_namesIndependent
                              -0.0989999 0.0302555 -3.2721 0.0010881
## partyid3_namesNot Sure
                              -0.1370063 0.0447645 -3.0606 0.0022423
## partyid3_namesOther
                              ## partyid3_namesRepublican
## ethnocentric1
                              ## Empathy:sex
                              -0.0130051
                                        0.0178906 -0.7269 0.4673693
                                        0.0185165 -0.6051 0.5452213
## Empathy:birthyr
                              -0.0112035
## Empathy:immigrant2
                              -0.0873307
                                        0.0383371 -2.2780 0.0228480
                              -0.0239320
                                        0.0189795 -1.2609 0.2074993
## Empathy:educ
## Empathy:religpew2
                              ## Empathy:religpew3
                               0.0635056 0.1974322 0.3217 0.7477502
```

```
## Empathy:religpew4
                                   0.1104959 0.1185429 0.9321 0.3514038
## Empathy:religpew5
                                   0.0384144 0.1562918 0.2458 0.8058761
## Empathy:religpew6
## Empathy:religpew7
                                   0.0779869 0.1970326 0.3958 0.6922954
## Empathy:religpew9
                                   0.1046033 0.0877085 1.1926 0.2331774
                                   0.0183157 0.0901536 0.2032 0.8390328
## Empathy:religpew10
## Empathy:religpew11
                                  ## Empathy:religpew12
                                  -0.0050059 0.0873018 -0.0573 0.9542804
## Empathy:partyid3_namesIndependent -0.0349074 0.0448236 -0.7788 0.4362181
## Empathy:partyid3_namesNot Sure
                                  -0.0819023 0.0670016 -1.2224 0.2217225
                                   ## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican -0.0451668 0.0421930 -1.0705 0.2845494
                                  -0.0275465 0.0179880 -1.5314 0.1258554
## Empathy:ethnocentric1
##
## (Intercept)
                                  ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                  **
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                                  ***
## ethnocentric1
                                  ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

There is a statistically significant effect of Empathy (vs persuasion) on Y6: estimate is 0.1298184, pvalue=0.0085180 (passes Bonferonni correction: 0.05/6=0.008333333).

H15a: (Difference between Empathy and Persuasion in long term on assigning refugee scores)

The effects of the empathy treatment on assigning higher point scores to refugee profiles will degrade significantly differently than the persuasion treatment over time. We use the EmpathyPersuasion.data.y2.w2 dataset, restricted to only individuals who answered the dependent variable questions in Wave 2.

```
##
## t test of coefficients:
##
##
                                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                  5.2306706 0.1472293 35.5274 < 2.2e-16
## Empathy
                                  ## sex
                                  -0.1418871
                                            0.0590651 -2.4022 0.0163129
                                   0.2973625
                                            0.0585307 5.0805 3.828e-07
## birthyr
## immigrant2
                                  -0.3325796  0.1211222  -2.7458  0.0060461
## educ
                                   0.1060298
                                            0.0562547 1.8848 0.0594814
## religpew2
                                   0.0381178
                                            0.1629279 0.2340 0.8150244
## religpew3
                                   ## religpew4
                                  1.0274147 0.6808083 1.5091 0.1313000
## religpew5
                                  -0.0113796  0.3753145  -0.0303  0.9758122
## religpew6
                                  1.5600150 0.3482582 4.4795 7.560e-06
## religpew7
                                  0.3550001 0.5161204 0.6878 0.4915784
## religpew8
                                  1.3582704 0.2429430 5.5909 2.314e-08
## religpew9
                                  0.2791162 0.2710415 1.0298 0.3031311
## religpew10
                                  ## religpew11
                                  -0.0758187 0.1742488 -0.4351 0.6634861
                                  ## religpew12
## partyid3_namesIndependent
                                  -0.7544425
                                             0.1418553 -5.3184 1.068e-07
                                            0.2699716 -3.5808 0.0003441
## partyid3_namesNot Sure
                                  -0.9667096
## partyid3_namesOther
                                  -0.8597557
                                             0.4497981 -1.9114 0.0559764
## partyid3_namesRepublican
                                            0.1461074 -8.5659 < 2.2e-16
                                  -1.2515347
                                  -0.4075428
                                             0.0637848 -6.3893 1.735e-10
## ethnocentric1
## Empathy:sex
                                  0.1742853
                                            0.0828351 2.1040 0.0354013
## Empathy:birthyr
                                  -0.1413337
                                            0.0832292 -1.6981 0.0895129
                                            0.1740285 0.7436 0.4571383
## Empathy:immigrant2
                                  0.1294065
## Empathy:educ
                                  -0.0074729
                                            0.0824705 -0.0906 0.9278013
## Empathy:religpew2
                                  0.1221212  0.2310012  0.5287  0.5970518
## Empathy:religpew3
                                  0.5461304 0.4598498 1.1876 0.2350063
## Empathy:religpew4
                                  -1.5472797
                                            0.9574022 -1.6161 0.1060971
## Empathy:religpew5
                                  -0.1239804
                                            0.5561968 -0.2229 0.8236117
## Empathy:religpew6
                                  -1.1167576 0.8126370 -1.3742 0.1693961
## Empathy:religpew7
                                  0.3757942 0.7098026 0.5294 0.5965148
## Empathy:religpew8
                                  0.3663116  0.3014876  1.2150  0.2243875
## Empathy:religpew9
                                  0.4871033  0.3662620  1.3299  0.1835691
## Empathy:religpew10
                                   0.3632006  0.3246153  1.1189  0.2632229
## Empathy:religpew11
                                  -0.0601823
                                            0.2407234 -0.2500 0.8025874
## Empathy:religpew12
                                   0.2306497
                                             0.3808652  0.6056  0.5447972
## Empathy:partyid3_namesIndependent -0.1652421
                                            0.1985109 -0.8324 0.4051972
## Empathy:partyid3_namesNot Sure
                                            0.3640958 -0.1154 0.9081227
                                  -0.0420201
## Empathy:partyid3_namesOther
                                  -0.0294113
                                            0.7074132 -0.0416 0.9668376
## Empathy:partyid3_namesRepublican
                                  ## Empathy:ethnocentric1
                                  ##
## (Intercept)
                                  ***
```

```
## Empathy
## sex
                                      *
## birthyr
## immigrant2
                                      **
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                      ***
## partyid3_namesNot Sure
                                      ***
## partyid3_namesOther
## partyid3 namesRepublican
                                      ***
## ethnocentric1
                                      ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3 namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect.

H15b: (Difference between Empathy and Persuasion in long term for accepting refugees who pass security screening)

The effects of the empathy treatment on favoring or opposing the U.S. taking in Syrian refugees will degrade significantly differently than the persuasion treatment over time. We use the EmpathyPersuasion.data.w2 dataset, restricted to only individuals who answered the dependent variable questions in Wave 2.

```
##
## t test of coefficients:
##
##
Estimate Std. Error t value Pr(>|t|)
```

```
0.8258263  0.0378415  21.8233  < 2.2e-16
## (Intercept)
## Empathy
                                     0.0105919 0.0555534 0.1907 0.848813
                                    -0.0144920 0.0149815 -0.9673 0.333514
## sex
## birthyr
                                     0.0748106  0.0146339  5.1121  3.532e-07
## immigrant2
                                    -0.0666170 0.0308676 -2.1582 0.031051
                                     0.0322399 0.0144819 2.2262
## educ
                                                                  0.026125
                                     0.0664710 0.0420168 1.5820
                                                                  0.113827
## religpew2
## religpew3
                                     0.0313676 0.1094352 0.2866
                                                                  0.774428
## religpew4
                                     0.2316771 0.1947641 1.1895
                                                                  0.234393
## religpew5
                                    -0.0475533 0.1120752 -0.4243
                                                                  0.671400
                                     0.2152992 0.1325623 1.6241
## religpew6
                                                                  0.104526
## religpew7
                                     0.1651991
                                               0.1050302 1.5729
                                                                  0.115928
                                               0.0686074 1.5612
## religpew8
                                     0.1071124
                                                                  0.118648
## religpew9
                                     0.0562060
                                               0.0602541 0.9328
                                                                  0.351043
## religpew10
                                               0.0544497 0.6232
                                     0.0339304
                                                                  0.533267
## religpew11
                                    -0.0507327
                                               0.0437701 -1.1591
                                                                  0.246584
                                               0.0652022 -2.0756 0.038077
## religpew12
                                    -0.1353334
                                               0.0349138 -6.7252 2.363e-11
## partyid3_namesIndependent
                                    -0.2348030
## partyid3_namesNot Sure
                                    ## partyid3 namesOther
                                    -0.3628852 0.0971674 -3.7346 0.000194
## partyid3_namesRepublican
                                    -0.3836259 0.0389067 -9.8601 < 2.2e-16
## ethnocentric1
                                    -0.1070409 0.0155293 -6.8928 7.596e-12
                                    0.0049058 0.0209419 0.2343 0.814812
## Empathy:sex
                                                                  0.085400
## Empathy:birthyr
                                    -0.0372644 0.0216509 -1.7211
## Empathy:immigrant2
                                    -0.0094458 0.0445419 -0.2121
                                                                  0.832080
                                    0.0230271 0.0208348 1.1052 0.269214
## Empathy:educ
## Empathy:religpew2
                                    -0.1000870 0.0617906 -1.6198 0.105459
                                               0.1734012 0.5285
## Empathy:religpew3
                                    0.0916381
                                                                  0.597237
## Empathy:religpew4
                                    -0.1418707
                                               0.2489090 -0.5700
                                                                  0.568771
## Empathy:religpew5
                                    0.0062631
                                               0.1397937 0.0448
                                                                  0.964270
## Empathy:religpew6
                                    -0.4396991
                                               0.2767991 -1.5885
                                                                  0.112350
## Empathy:religpew7
                                    0.0306340 0.1563193 0.1960
                                                                  0.844656
## Empathy:religpew8
                                     0.1847181
                                               0.0832477 2.2189
                                                                  0.026621
                                     0.0896445 0.0822706 1.0896
## Empathy:religpew9
                                                                  0.276026
                                               0.0728706 1.3616
## Empathy:religpew10
                                     0.0992225
                                                                  0.173490
## Empathy:religpew11
                                     0.0163681 0.0603687 0.2711
                                                                  0.786318
                                     0.0089723 0.0980779 0.0915
## Empathy:religpew12
                                                                  0.927121
## Empathy:partyid3_namesIndependent -0.0035836 0.0495460 -0.0723
                                                                  0.942349
## Empathy:partyid3_namesNot Sure
                                     0.0780424 0.0991492 0.7871
                                                                  0.431317
## Empathy:partyid3_namesOther
                                     0.3688389 0.1462189 2.5225
                                                                  0.011740
## Empathy:partyid3_namesRepublican
                                     0.0637131 0.0567677 1.1223
                                                                  0.261868
## Empathy:ethnocentric1
                                     0.0010875 0.0221576 0.0491 0.960859
##
## (Intercept)
                                    ***
## Empathy
## sex
                                    ***
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
```

```
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                     ***
## partyid3_namesNot Sure
                                     **
## partyid3_namesOther
## partyid3_namesRepublican
                                     ***
## ethnocentric1
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3 namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant difference between Empathy/Persuasion effects on screening (Y4) in long term.

H15c: (Difference between Empathy and Persuasion in long term for writing a letter)

The effects of the empathy treatment on sending an anonymous letter to the White House will degrade significantly differently than the persuasion treatment over time. We use the EmpathyPersuasion.data.w2 dataset, restricted to only individuals who answered the dependent variable questions in Wave 2.

```
##
## Call:
  lm(formula = Y6_new ~ Empathy + sex + Empathy * sex + birthyr +
##
       Empathy * birthyr + immigrant2 + Empathy * immigrant2 + educ +
##
       Empathy * educ + relignew + Empathy * relignew + partyid3_names +
##
       Empathy * partyid3_names + ethnocentric1 + Empathy * ethnocentric1,
##
##
       data = EmpathyPersuasion.data.w2)
##
## Residuals:
##
                  1Q
                       Median
                                            Max
   -0.66426 -0.24259 -0.11807 0.04676 1.07991
##
##
## Coefficients:
##
                                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                      0.295739
                                                 0.034143
                                                           8.662 < 2e-16
                                                           0.567
## Empathy
                                      0.027982
                                                 0.049340
                                                                   0.57070
## sex
                                     -0.001159
                                                 0.013205 -0.088 0.93008
## birthyr
                                     -0.010204
                                                 0.013524 -0.754 0.45066
```

```
0.027508 -1.833 0.06696
## immigrant2
                                      -0.050426
## educ
                                      0.039061
                                                  0.013216
                                                             2.956
                                                                    0.00316
## religpew2
                                      -0.019968
                                                  0.036078 -0.553
                                                                    0.58002
## religpew3
                                      -0.022417
                                                  0.099837
                                                           -0.225 0.82237
## religpew4
                                      -0.154133
                                                  0.190941 -0.807
                                                                    0.41964
                                                  0.092273 -1.353
## religpew5
                                      -0.124807
                                                                    0.17636
## religpew6
                                                  0.136815
                                                            1.374 0.16966
                                      0.187963
## religpew7
                                       0.196682
                                                  0.136600
                                                             1.440 0.15009
## religpew8
                                       0.686142
                                                  0.268544
                                                             2.555 0.01070
## religpew9
                                       0.170232
                                                  0.060640
                                                             2.807
                                                                    0.00505
                                                            1.973 0.04866
## religpew10
                                       0.106671
                                                  0.054068
## religpew11
                                       0.015531
                                                  0.037472
                                                             0.414 0.67859
                                                  0.056505
                                                             0.785
## religpew12
                                                                   0.43277
                                       0.044336
## partyid3_namesIndependent
                                      -0.069105
                                                  0.031464
                                                            -2.196
                                                                    0.02820
                                                           -2.466
## partyid3_namesNot Sure
                                      -0.147816
                                                  0.059934
                                                                    0.01375
## partyid3_namesOther
                                      -0.110927
                                                  0.089796
                                                           -1.235 0.21688
                                                           -5.327 1.13e-07
## partyid3_namesRepublican
                                      -0.177667
                                                  0.033354
## ethnocentric1
                                      -0.089393
                                                  0.012904
                                                            -6.927 6.00e-12
## Empathy:sex
                                      0.010098
                                                  0.018478
                                                            0.547
                                                                   0.58478
## Empathy:birthyr
                                      0.007398
                                                  0.019405
                                                             0.381 0.70305
## Empathy:immigrant2
                                                             0.956
                                                                    0.33910
                                      0.037572
                                                  0.039293
## Empathy:educ
                                      0.008625
                                                  0.018642
                                                             0.463 0.64366
## Empathy:religpew2
                                      0.018227
                                                  0.051589
                                                           0.353 0.72390
## Empathy:religpew3
                                                             0.110 0.91206
                                      0.016155
                                                  0.146259
## Empathy:religpew4
                                      0.342638
                                                  0.238981
                                                             1.434 0.15182
                                                            0.992 0.32137
## Empathy:religpew5
                                      0.121925
                                                  0.122918
## Empathy:religpew6
                                      -0.135648
                                                  0.219100
                                                           -0.619 0.53592
                                                             0.102 0.91865
## Empathy:religpew7
                                      0.019709
                                                  0.192947
## Empathy:religpew8
                                      -0.929848
                                                  0.463242
                                                            -2.007
                                                                    0.04487
                                                            -1.203 0.22920
## Empathy:religpew9
                                      -0.102064
                                                  0.084853
## Empathy:religpew10
                                      -0.071340
                                                  0.077495
                                                            -0.921
                                                                    0.35740
                                                            -1.070
## Empathy:religpew11
                                      -0.055614
                                                  0.051979
                                                                    0.28480
## Empathy:religpew12
                                       0.011783
                                                  0.081988
                                                             0.144
                                                                    0.88574
## Empathy:partyid3_namesIndependent -0.039533
                                                           -0.892 0.37226
                                                  0.044296
                                                            -1.235
## Empathy:partyid3_namesNot Sure
                                      -0.101040
                                                  0.081823
                                                                    0.21705
## Empathy:partyid3_namesOther
                                                             0.455
                                                                    0.64950
                                       0.063867
                                                  0.140511
## Empathy:partyid3 namesRepublican -0.061209
                                                            -1.277
                                                  0.047929
                                                                    0.20174
  Empathy:ethnocentric1
                                                            0.406 0.68485
##
                                       0.007554
                                                  0.018608
##
## (Intercept)
                                      ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
                                      **
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
```

```
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3 namesRepublican
## ethnocentric1
                                     ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3753 on 1758 degrees of freedom
## Multiple R-squared: 0.1576, Adjusted R-squared: 0.1379
## F-statistic: 8.022 on 41 and 1758 DF, p-value: < 2.2e-16
```

No statistically significant effect of Empathy on Y6 in long term.

End of PAP analysis.

Analysis outside of PAP

Summary statistics

% of overall sample, of dems, of reps and of indeps who wrote a positive letter in control and then in each condition.

```
prop.table(table(data$partyid3_names,data$Y6_new, data$treatment))
##
       = Control
##
##
##
##
    Democrat
               0.0820370370 0.0340740741
##
     Independent 0.0907407407 0.0220370370
##
    Not Sure
              0.0196296296 0.0014814815
##
                 0.0016666667 0.0007407407
    Republican 0.0764814815 0.0044444444
##
##
##
       = Empathy
##
```

```
##
##
                            0
                 0.0750000000 0.0375925926
##
     Democrat
##
     Independent 0.0907407407 0.0237037037
##
     Not Sure
                 0.0192592593 0.0016666667
     Other
##
                 0.0018518519 0.0009259259
##
     Republican 0.0772222222 0.0053703704
##
##
        = Persuasion
##
##
##
##
                 0.0916666667 0.0342592593
     Democrat
     Independent 0.0816666667 0.0205555556
##
     Not Sure
                 0.0166666667 0.0016666667
##
##
     Other
                 0.0050000000 0.0011111111
     Republican 0.0759259259 0.0048148148
##
Looking at just the Control group, baseline Y6, Y2, Y1 values by party:
t.test(data.w1$Y6_new[data.w1$partyid3_names=="Democrat"&data.w1$Treatment_Group_names=="Control Wave 1"])
##
##
   One Sample t-test
##
## data: data.w1$Y6_new[data.w1$partyid3_names == "Democrat" & data.w1$Treatment_Group_names ==
                                                                                                        "Contr
## t = 9.6638, df = 310, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1843733 0.2786492
## sample estimates:
## mean of x
## 0.2315113
t.test(data.w1$Y6_new[data.w1$partyid3_names=="Republican"&data.w1$Treatment_Group_names=="Control Wave 1"]
##
   One Sample t-test
##
##
## data: data.w1$Y6_new[data.w1$partyid3_names == "Republican" & data.w1$Treatment_Group_names ==
                                                                                                          "Cor
## t = 3.2303, df = 216, p-value = 0.00143
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.01796479 0.07420111
## sample estimates:
## mean of x
## 0.04608295
t.test(data.w1$Y6_new[data.w1$partyid3_names=="Independent"&data.w1$Treatment_Group_names=="Control Wave 1"
##
    One Sample t-test
##
##
## data: data.w1$Y6_new[data.w1$partyid3_names == "Independent" & data.w1$Treatment_Group_names ==
                                                                                                           "Co
## t = 9.1268, df = 313, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1648777 0.2555045
## sample estimates:
```

```
## mean of x
## 0.2101911
#Y2
t.test(data.y2.w1$y2[data.y2.w1$partyid3_names=="Democrat"&data.y2.w1$Treatment_Group_names=="Control Wave
##
##
    One Sample t-test
##
## data: data.y2.w1$y2[data.y2.w1$partyid3_names == "Democrat" & data.y2.w1$Treatment_Group_names ==
## t = 138.64, df = 1865, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 5.251021 5.401712
## sample estimates:
## mean of x
## 5.326367
t.test(data.y2.w1$y2[data.y2.w1$partyid3_names=="Republican"&data.y2.w1$Treatment_Group_names=="Control Wav
##
##
    One Sample t-test
##
## data: data.y2.w1$y2[data.y2.w1$partyid3_names == "Republican" & data.y2.w1$Treatment_Group_names ==
## t = 75.168, df = 1301, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3.818561 4.023221
## sample estimates:
## mean of x
   3.920891
t.test(data.y2.w1$y2[data.y2.w1$partyid3_names=="Independent"&data.y2.w1$Treatment_Group_names=="Control Wa
##
##
    One Sample t-test
##
## data: data.y2.w1$y2[data.y2.w1$partyid3_names == "Independent" & data.y2.w1$Treatment_Group_names ==
## t = 97.525, df = 1883, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 4.327848 4.505486
## sample estimates:
## mean of x
   4.416667
Subsection in paper on magnitudes under "Information": For example, Republicans exposed to the information
treatment held significantly more negative favorability ratings of refugees than Republicans in our control condition.
The magnitude of the effect is larger than that of our empathy treatment
t.test(y2~Persuasion,
       data=ControlPersuasion.data.y2.w1[ControlPersuasion.data.y2.w1$partyid3_names=="Republican",])
##
    Welch Two Sample t-test
##
## data: y2 by Persuasion
## t = 3.9972, df = 2586.2, p-value = 6.589e-05
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
```

```
## 0.1528114 0.4471100
## sample estimates:
## mean in group 0 mean in group 1
##
         3.920891
                          3.620930
t.test(y2~Empathy,
       data=ControlEmpathy.data.y2.w1[ControlEmpathy.data.y2.w1$partyid3_names=="Republican",])
##
##
   Welch Two Sample t-test
##
## data: y2 by Empathy
## t = 2.1551, df = 2584.8, p-value = 0.03125
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.01495167 0.31684557
## sample estimates:
## mean in group 0 mean in group 1
          3.920891
##
                          3.754992
```

Magnitudes of effects, taking a closer look.

The results of the experiment demonstrate that Empathy can move Democrats towards writing more letters. We take a closer look at letter writing behavior in the Control groups for each of the parties.

table(data\$treatment,data\$Y6_new,data\$partyid3_names)

```
##
        = Democrat
##
##
##
                   0
                       1
##
     Control
                 443 184
##
     Empathy
                 405 203
     Persuasion 495 185
##
##
##
        = Independent
##
##
##
                   0
                       1
     Control
##
                 490 119
     Empathy
                 490 128
##
##
     Persuasion 441 111
##
##
        = Not Sure
##
##
##
                   0
                        1
     Control
                 106
##
                        8
##
     Empathy
                 104
##
     Persuasion 90
##
##
        = Other
##
##
##
                   0
                       1
                   9
##
     Control
                        4
                        5
##
     Empathy
                  10
     Persuasion 27
##
```

```
##
##
         = Republican
##
##
##
                    0
                         1
##
     Control
                  413
                       24
##
                  417
                       29
     Empathy
##
     Persuasion 410
                       26
```

Democrats are at a baseline 29.3% willing to write positive letters in the Control group. They're 33.4% willing to write positive letters in the Empathy group. Independents are at a baseline 19.5% willing to write positive letters in the Control group. They're 20.7% willing to write positive letters in the Empathy group. Republicans are at a baseline 5.5% willing to write positive letters in the Control group. They're 6.5% willing to write positive letters in the Empathy group.

Now just letter writing in general:

Democrats are at a baseline 29.3% willing to write letters in the Control group. They're 33.4% willing to write letters in the Empathy group. (same as above) Independents are at a baseline 19.5% willing to write letters in the Control group. They're 20.7% willing to write letters in the Empathy group. (same as above) Republicans are at a baseline 5.5% willing to write letters in the Control group. They're 6.5% willing to write letters in the Empathy group.

Specific notes for text:

##

##

Control

Empathy

749 151

708 192

```
Abstract: t-test effect of Empathy for Empathy-Control on Y6
t.test(Y6_new~Empathy, data=ControlEmpathy.data.w1)
##
##
    Welch Two Sample t-test
##
## data: Y6_new by Empathy
## t = -2.4634, df = 1783, p-value = 0.01386
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
   -0.081825830 -0.009285281
## sample estimates:
## mean in group 0 mean in group 1
         0.1677778
                          0.2133333
Proportion of people in control who wrote positive letter
table(data$treatment,data$Y6_new)
##
##
                    0
                         1
##
                       339
     Control
                 1461
##
     Empathy
                 1426
                       374
                       337
##
     Persuasion 1463
339/(1461+339)
## [1] 0.1883333
#for just wave 1
table(data.w1$treatment,data.w1$Y6_new)
##
##
                   0
                       1
```

```
Persuasion 751 149
151/(151+749)
## [1] 0.1677778
Proportion of people in Empathy group who wrote positive letter
table(data$treatment,data$Y6_new)
##
##
                          1
##
     Control
                 1461
                       339
##
     Empathy
                 1426
                       374
##
     Persuasion 1463 337
374/(374+1426)
## [1] 0.2077778
#for just wave 1
table(data.w1$treatment,data.w1$Y6_new)
##
##
                   0
                       1
##
     Control
                 749 151
                 708 192
##
     Empathy
     Persuasion 751 149
##
192/(192+708)
## [1] 0.2133333
```

Backlash: Persuasion might have a backlash effect on republicans

data: survey_neg by treatment

95 percent confidence interval:

t = -0.30542, df = 431.43, p-value = 0.7602

alternative hypothesis: true difference in means is not equal to 0

First let's take a look at some t.tests to double check whether there's a backlash effect with the Empathy/Persuasion treatments amongst certain party identities. The backlash variable is **survey_neg**. First, let's take a look at Empathy:

```
#ttests
t.test(survey_neg~treatment, ControlEmpathy.data.w1[ControlEmpathy.data.w1$partyid3_names=="Democrat",],cor
##
##
   Welch Two Sample t-test
##
## data: survey_neg by treatment
## t = -1.0024, df = 496.96, p-value = 0.3166
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
   -0.019035304 0.006173568
##
## sample estimates:
## mean in group Control mean in group Empathy
             0.003215434
                                   0.009646302
##
t.test(survey_neg~treatment, ControlEmpathy.data.w1[ControlEmpathy.data.w1spartyid3_names=="Republican",],
##
##
   Welch Two Sample t-test
##
```

```
## -0.06852741 0.05009423
## sample estimates:
## mean in group Control mean in group Empathy
##
           0.1059908
                            0.1152074
t.test(survey_neg~treatment, ControlEmpathy.data.w1[ControlEmpathy.data.w1$partyid3_names=="Independent",];
##
  Welch Two Sample t-test
##
##
## data: survey_neg by treatment
## t = 0.90709, df = 616.75, p-value = 0.3647
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.02202347 0.05983303
## sample estimates:
## mean in group Control mean in group Empathy
##
          0.08280255
                           0.06389776
## full PAP specified-esque regressions
back1 <- lm(survey_neg~Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educ+F
clx(back1)
##
## t test of coefficients:
##
##
                             Estimate Std. Error t value Pr(>|t|)
                             ## (Intercept)
                             0.0191497 0.0219978 0.8705 0.3841322
## Empathy
## sex
                             ## birthyr
## immigrant2
                             0.0019267 0.0160874 0.1198 0.9046851
                            0.0148499 0.0089572 1.6579 0.0975197
## educ
## religpew2
                             0.0029041 0.0237867 0.1221 0.9028421
## religpew3
                            ## religpew4
                             ## religpew5
                            ## religpew6
                            ## religpew7
                            0.0443340 0.1243233 0.3566 0.7214320
## religpew8
                            -0.1364406 0.0297259 -4.5899 4.748e-06
## religpew9
                            ## religpew10
                            -0.0217551 0.0264876 -0.8213 0.4115678
## religpew11
                            -0.0299039 0.0184937 -1.6170 0.1060635
## religpew12
                            0.0435873 0.0437383 0.9965 0.3191209
## partyid3_namesIndependent
                            0.0727001 0.0155963 4.6614 3.378e-06
## partyid3_namesNot Sure
                            0.0138907 0.0092642 1.4994 0.1339508
                            ## partyid3 namesOther
## partyid3_namesRepublican
                            0.0936401 0.0215565 4.3439 1.479e-05
## ethnocentric1
                            0.0135911 0.0075619 1.7973 0.0724556
                            0.0014146 0.0112152 0.1261 0.8996441
## Empathy:sex
## Empathy:birthyr
                            -0.0268971 0.0232078 -1.1590 0.2466255
## Empathy:immigrant2
## Empathy:educ
                            ## Empathy:religpew2
                            ## Empathy:religpew3
                            ## Empathy:religpew4
                            -0.0016522 0.1713036 -0.0096 0.9923059
## Empathy:religpew5
                            ## Empathy:religpew6
                            ## Empathy:religpew7
                            0.0195604 0.1663674 0.1176 0.9064192
```

```
## Empathy:religpew8
                                   0.0117044 0.0332348 0.3522 0.7247501
## Empathy:religpew9
                                  -0.0225158 0.0299220 -0.7525 0.4518615
## Empathy:religpew10
## Empathy:religpew11
                                   ## Empathy:religpew12
                                  -0.0138442 0.0600542 -0.2305 0.8177080
## Empathy:partyid3_namesIndependent -0.0228597 0.0212342 -1.0765 0.2818294
## Empathy:partyid3_namesNot Sure
                                   0.0268856 0.0291166 0.9234 0.3559375
## Empathy:partyid3 namesOther
                                  -0.0371587 0.0315532 -1.1777 0.2390954
## Empathy:partyid3_namesRepublican 0.0053157 0.0314160 0.1692 0.8656560
## Empathy:ethnocentric1
                                  ##
## (Intercept)
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
                                  ***
## religpew9
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
## partyid3_namesNot Sure
## partyid3_namesOther
## partyid3_namesRepublican
                                  ***
## ethnocentric1
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
                                  ***
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

#with weights

back1 <- lm(survey_neg~Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educclx(back1)

```
##
## t test of coefficients:
##
                                    Estimate Std. Error t value
## (Intercept)
                                  0.01116520 0.01476314 0.7563
## Empathy
                                  0.01810874 0.02356512 0.7685
## sex
                                  0.01151743 0.00760288 1.5149
## birthyr
                                 ## immigrant2
                                  0.00011235 0.01519130 0.0074
                                  0.02172628 0.00987275 2.2006
## educ
## religpew2
                                 -0.00554110 0.02281193 -0.2429
## religpew3
                                 ## religpew4
                                  0.06544078 0.11043152 0.5926
## religpew5
                                 ## religpew6
                                  0.01196953 0.01945904 0.6151
                                 -0.00520541 0.06566225 -0.0793
## religpew7
## religpew8
                                 -0.12737029 0.03142470 -4.0532
## religpew9
                                 -0.02857590 0.02182682 -1.3092
## religpew10
## religpew11
                                 -0.02218149 0.01918122 -1.1564
## religpew12
                                  0.04309904 0.05451025 0.7907
## partyid3_namesIndependent
                                  0.07226035 0.01676862 4.3093
## partyid3_namesNot Sure
                                  0.01984980 0.01188788 1.6698
                                  0.04672531 0.02370467 1.9711
## partyid3_namesOther
## partyid3_namesRepublican
                                  0.08584738 0.02108741 4.0710
## ethnocentric1
                                  0.01622327 0.00889766 1.8233
                                  0.01152126  0.01376784  0.8368
## Empathy:sex
## Empathy:birthyr
                                 -0.01611600 0.01249773 -1.2895
## Empathy:immigrant2
                                 ## Empathy:educ
                                 -0.01633420 0.01476421 -1.1063
                                 0.01842884 0.04038790 0.4563
## Empathy:religpew2
                                 0.03167778 0.11170590 0.2836
## Empathy:religpew3
## Empathy:religpew4
                                 ## Empathy:religpew5
                                 0.03974974 0.07652580 0.5194
## Empathy:religpew6
                                 -0.04143429 0.03740875 -1.1076
## Empathy:religpew7
                                  0.00884913 0.09320141 0.0949
## Empathy:religpew8
                                 0.13851220 0.04308649 3.2147
## Empathy:religpew9
                                 -0.00712352 0.03649779 -0.1952
                                 ## Empathy:religpew10
## Empathy:religpew11
                                  0.02281406 0.03683608 0.6193
## Empathy:religpew12
                                 -0.01195108 0.07196419 -0.1661
## Empathy:partyid3_namesIndependent -0.03600486 0.02436880 -1.4775
## Empathy:partyid3_namesNot Sure
                                  0.06447505 0.08236898 0.7828
## Empathy:partyid3_namesOther
                                 -0.04789920 0.03502426 -1.3676
## Empathy:partyid3_namesRepublican
                                  0.00558602 0.03445625 0.1621
## Empathy:ethnocentric1
                                 -0.01487120 0.01166358 -1.2750
##
                                  Pr(>|t|)
                                  0.449578
## (Intercept)
                                  0.442320
## Empathy
                                  0.129983
## sex
## birthyr
                                  0.067655
## immigrant2
                                  0.994100
                                  0.027892 *
## educ
```

```
0.808108
## religpew2
## religpew3
                                       0.472521
## religpew4
                                      0.553531
## religpew5
                                      0.160683
## religpew6
                                      0.538559
## religpew7
                                      0.936822
## religpew8
                                      5.273e-05 ***
## religpew9
                                      0.393370
## religpew10
                                      0.190634
## religpew11
                                      0.247668
## religpew12
                                      0.429249
## partyid3_namesIndependent
                                     1.729e-05 ***
## partyid3_namesNot Sure
                                      0.095147 .
## partyid3_namesOther
                                      0.048864 *
## partyid3_namesRepublican
                                     4.888e-05 ***
## ethnocentric1
                                      0.068425
## Empathy:sex
                                      0.402805
## Empathy:birthyr
                                      0.197389
## Empathy:immigrant2
                                      0.547580
## Empathy:educ
                                      0.268732
## Empathy:religpew2
                                      0.648234
## Empathy:religpew3
                                      0.776764
## Empathy:religpew4
                                      0.888930
## Empathy:religpew5
                                      0.603527
## Empathy:religpew6
                                      0.268182
## Empathy:religpew7
                                      0.924368
## Empathy:religpew8
                                      0.001329 **
## Empathy:religpew9
                                      0.845277
## Empathy:religpew10
                                      0.588159
## Empathy:religpew11
                                      0.535773
## Empathy:religpew12
                                      0.868121
## Empathy:partyid3_namesIndependent 0.139721
## Empathy:partyid3_namesNot Sure
                                      0.433874
## Empathy:partyid3_namesOther
                                      0.171612
## Empathy:partyid3_namesRepublican
                                      0.871231
## Empathy:ethnocentric1
                                      0.202474
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
  #no change, no effect
No backlash effect.
```

Now let's take a look at Persuasion:

#ttests

t.test(survey_neg~treatment, ControlPersuasion.data.w1[ControlPersuasion.data.w1\$partyid3_names=="Democrat"

```
##
##
   Welch Two Sample t-test
##
## data: survey_neg by treatment
## t = -0.48898, df = 638, p-value = 0.625
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
   -0.012698627 0.007635242
## sample estimates:
     mean in group Control mean in group Persuasion
##
##
                0.003215434
                                         0.005747126
```

```
t.test(survey_neg~treatment, ControlPersuasion.data.w1[ControlPersuasion.data.w1$partyid3_names=="Republication".
##
##
   Welch Two Sample t-test
##
## data: survey_neg by treatment
## t = -1.989, df = 411.79, p-value = 0.04736
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.1314308136 -0.0007736661
## sample estimates:
##
     mean in group Control mean in group Persuasion
##
                 0.1059908
                                         0.1720930
t.test(survey_neg~treatment, ControlPersuasion.data.w1[ControlPersuasion.data.w1$partyid3_names=="Independent controlPersuasion.data.w1]
##
   Welch Two Sample t-test
##
##
## data: survey_neg by treatment
## t = 1.7165, df = 576.64, p-value = 0.08661
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.005024153 0.074688289
## sample estimates:
##
     mean in group Control mean in group Persuasion
##
                0.08280255
                                        0.04797048
## full PAP specified-esque regressions
back2 <- lm(survey_neg~Persuasion+sex+Persuasion*sex+birthyr+Persuasion*birthyr+immigrant2+Persuasion*immig
clx(back2)
##
## t test of coefficients:
##
##
                                        Estimate Std. Error t value
## (Intercept)
                                       0.0142015 0.0156159 0.9094
## Persuasion
                                      -0.0040193 0.0237516 -0.1692
## sex
                                       0.0180128 0.0077444 2.3259
                                      -0.0143419 0.0070851 -2.0242
## birthyr
## immigrant2
                                       0.0019267 0.0160874 0.1198
## educ
                                       0.0148499 0.0089572 1.6579
## religpew2
                                       0.0029041 0.0237867 0.1221
                                      ## religpew3
## religpew4
                                       0.0694325 0.1122541 0.6185
## religpew5
                                      ## religpew6
                                      0.0443340 0.1243233 0.3566
## religpew7
## religpew8
                                      -0.1364406 0.0297259 -4.5899
## religpew9
                                      ## religpew10
                                      -0.0217551 0.0264876 -0.8213
## religpew11
                                      -0.0299039 0.0184937 -1.6170
                                      0.0435873 0.0437383 0.9965
## religpew12
## partyid3_namesIndependent
                                      0.0727001 0.0155963 4.6614
## partyid3_namesNot Sure
                                      0.0138907 0.0092642 1.4994
## partyid3_namesOther
                                      0.0301328 0.0205228 1.4683
```

0.0936401 0.0215565 4.3439

0.0135911 0.0075619 1.7973

partyid3_namesRepublican

ethnocentric1

```
## Persuasion:sex
                                        -0.0172020 0.0106382 -1.6170
## Persuasion:birthyr
## Persuasion:immigrant2
                                        -0.0207893 0.0237751 -0.8744
## Persuasion:educ
                                        -0.0075103 0.0125202 -0.5999
## Persuasion:religpew2
                                        0.0312921 0.0355698 0.8797
                                         0.2500479 0.1789466 1.3973
## Persuasion:religpew3
## Persuasion:religpew4
                                        -0.1202205 0.1159065 -1.0372
## Persuasion:religpew5
                                        0.0896656 0.0691823 1.2961
## Persuasion:religpew6
                                        -0.0374251 0.0367660 -1.0179
## Persuasion:religpew7
                                        -0.0832896 0.1272485 -0.6545
## Persuasion:religpew9
                                         0.0246032 0.0349030 0.7049
## Persuasion:religpew10
                                         0.0155068 0.0402379 0.3854
## Persuasion:religpew11
                                         0.0430626 0.0277666 1.5509
## Persuasion:religpew12
                                        -0.0295647
                                                    0.0533060 -0.5546
## Persuasion:partyid3_namesIndependent -0.0337765 0.0210098 -1.6077
## Persuasion:partyid3_namesNot Sure
                                         0.0471529
                                                    0.0305136 1.5453
## Persuasion:partyid3_namesOther
                                         0.1478981
                                                    0.0910130 1.6250
## Persuasion:partyid3_namesRepublican
                                         0.0640571
                                                    0.0335351 1.9102
## Persuasion:ethnocentric1
                                        -0.0081355 0.0103285 -0.7877
                                         Pr(>|t|)
## (Intercept)
                                          0.36325
## Persuasion
                                          0.86564
## sex
                                          0.02014 *
## birthyr
                                          0.04310
## immigrant2
                                          0.90469
                                          0.09752
## educ
## religpew2
                                          0.90284
## religpew3
                                          0.70867
## religpew4
                                          0.53631
## religpew5
                                          0.34772
## religpew6
                                          0.60050
## religpew7
                                          0.72143
## religpew8
                                        4.748e-06
## religpew9
                                          0.16188
## religpew10
                                          0.41157
## religpew11
                                          0.10606
## religpew12
                                          0.31912
## partyid3_namesIndependent
                                        3.377e-06 ***
## partyid3_namesNot Sure
                                          0.13395
## partyid3_namesOther
                                          0.14221
## partyid3_namesRepublican
                                        1.479e-05 ***
## ethnocentric1
                                          0.07246
## Persuasion:sex
                                          0.82880
## Persuasion:birthyr
                                          0.10606
## Persuasion:immigrant2
                                          0.38201
## Persuasion:educ
                                          0.54868
## Persuasion:religpew2
                                          0.37912
## Persuasion:religpew3
                                          0.16249
## Persuasion:religpew4
                                          0.29978
## Persuasion:religpew5
                                          0.19512
## Persuasion:religpew6
                                          0.30885
## Persuasion:religpew7
                                          0.51285
## Persuasion:religpew9
                                          0.48096
## Persuasion:religpew10
                                          0.70000
## Persuasion:religpew11
                                          0.12111
## Persuasion:religpew12
                                          0.57922
## Persuasion:partyid3_namesIndependent
                                          0.10809
```

```
## Persuasion:partyid3_namesNot Sure
                                     0.12245
                                     0.10434
## Persuasion:partyid3_namesOther
## Persuasion:partyid3_namesRepublican
                                     0.05628
## Persuasion:ethnocentric1
                                     0.43099
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
  #with weights
 back2 <- lm(survey_neg~Persuasion+sex+Persuasion*sex+birthyr+Persuasion*birthyr+immigrant2+Persuasion*imm
 clx(back2)
##
## t test of coefficients:
##
##
                                      Estimate Std. Error t value
## (Intercept)
                                    0.01116520 0.01476314 0.7563
## Persuasion
                                   0.01151743 0.00760288 1.5149
## birthyr
                                   0.00011235 0.01519130 0.0074
## immigrant2
                                    0.02172628 0.00987275 2.2006
## educ
## religpew2
                                    -0.00554110 0.02281193 -0.2429
## religpew3
                                   -0.03631844 0.05054486 -0.7185
## religpew4
                                    0.06544078 0.11043152 0.5926
                                   ## religpew5
                                    0.01196953 0.01945904 0.6151
## religpew6
## religpew7
                                   -0.00520541 0.06566225 -0.0793
## religpew8
                                   -0.12737029 0.03142470 -4.0532
                                   -0.02231321 0.02613609 -0.8537
## religpew9
## religpew10
                                   -0.02857590 0.02182682 -1.3092
## religpew11
                                   -0.02218149 0.01918122 -1.1564
## religpew12
                                    0.04309904 0.05451025 0.7907
## partyid3_namesIndependent
                                    0.07226035 0.01676862 4.3093
                                   0.01984980 0.01188788 1.6698
## partyid3_namesNot Sure
## partyid3_namesOther
                                   0.04672531 0.02370467 1.9711
## partyid3_namesRepublican
                                    0.08584738 0.02108741 4.0710
## ethnocentric1
                                    0.01622327 0.00889766 1.8233
## Persuasion:sex
                                    0.00612255 0.01190350 0.5143
## Persuasion:birthyr
                                   -0.02035583 0.01069517 -1.9033
## Persuasion:immigrant2
                                   ## Persuasion:educ
                                   -0.01535344 0.01359766 -1.1291
## Persuasion:religpew2
                                   0.05779345 0.03759088 1.5374
## Persuasion:religpew3
                                   0.29783626 0.17848136 1.6687
                                   -0.07787884 0.11449208 -0.6802
## Persuasion:religpew4
## Persuasion:religpew5
                                    ## Persuasion:religpew6
                                   ## Persuasion:religpew7
                                   -0.04054141 0.07344492 -0.5520
## Persuasion:religpew9
                                    0.00980906 0.03714164 0.2641
## Persuasion:religpew10
                                    0.03445918 0.04460534 0.7725
## Persuasion:religpew11
                                    0.03250659 0.02674241 1.2155
## Persuasion:religpew12
                                   ## Persuasion:partyid3_namesIndependent -0.02469189 0.02408266 -1.0253
## Persuasion:partyid3_namesNot Sure
                                    ## Persuasion:partyid3_namesOther
                                    0.18751457 0.14454789 1.2972
## Persuasion:partyid3_namesRepublican
                                    0.08342673 0.03429838 2.4324
## Persuasion:ethnocentric1
                                    -0.01573813 0.01158696 -1.3583
##
                                    Pr(>|t|)
## (Intercept)
                                     0.44958
```

```
## Persuasion
                                          0.55556
## sex
                                          0.12998
## birthyr
                                          0.06766
## immigrant2
                                          0.99410
## educ
                                          0.02789 *
## religpew2
                                          0.80811
## religpew3
                                          0.47252
## religpew4
                                          0.55353
## religpew5
                                          0.16068
## religpew6
                                          0.53856
## religpew7
                                          0.93682
## religpew8
                                        5.273e-05 ***
## religpew9
                                          0.39337
## religpew10
                                          0.19063
## religpew11
                                          0.24767
## religpew12
                                          0.42925
## partyid3_namesIndependent
                                        1.729e-05 ***
## partyid3_namesNot Sure
                                          0.09515
## partyid3_namesOther
                                          0.04886 *
## partyid3 namesRepublican
                                        4.888e-05 ***
## ethnocentric1
                                          0.06842
## Persuasion:sex
                                          0.60707
## Persuasion:birthyr
                                          0.05717
## Persuasion:immigrant2
                                          0.39563
## Persuasion:educ
                                          0.25900
## Persuasion:religpew2
                                          0.12437
## Persuasion:religpew3
                                          0.09535
## Persuasion:religpew4
                                          0.49646
## Persuasion:religpew5
                                          0.15497
## Persuasion:religpew6
                                          0.43086
## Persuasion:religpew7
                                          0.58102
## Persuasion:religpew9
                                          0.79173
## Persuasion:religpew10
                                          0.43990
## Persuasion:religpew11
                                          0.22432
## Persuasion:religpew12
                                          0.67533
## Persuasion:partyid3_namesIndependent    0.30536
## Persuasion:partyid3_namesNot Sure
                                          0.15040
## Persuasion:partyid3_namesOther
                                          0.19472
## Persuasion:partyid3_namesRepublican 0.01510 *
## Persuasion:ethnocentric1
                                          0.17455
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

There is an interaction effect of Persuasion:partyid3_namesRepublican on backlash: 0.08342673 (pvalue=0.01510).

Full regression on backlash (with triple interaction on treatment, partyid, wave)

```
0.01922233 0.00522097 3.6818
## sex
                                      ## birthyr
## immigrant2
                                      -0.00617532 0.01083271 -0.5701
## educ
                                       0.00694380 0.00583432 1.1902
## religpew2
                                      ## religpew3
                                      -0.03330563
                                                  0.03343571 -0.9961
## religpew4
                                       0.03509165 0.08228843 0.4264
## religpew5
                                      -0.04032730 0.02821039 -1.4295
                                      -0.02942079 0.01441983 -2.0403
## religpew6
## religpew7
                                       0.00891140
                                                  0.05673882 0.1571
## religpew8
                                      -0.07258307
                                                  0.03009301 -2.4120
## religpew9
                                      -0.01017195
                                                  0.02049395 -0.4963
## religpew10
                                      -0.02023446
                                                  0.01853818 -1.0915
## religpew11
                                      -0.01855554
                                                  0.01356569 -1.3678
## religpew12
                                       0.03736997
                                                  0.02630409 1.4207
## partyid3_namesIndependent
                                       0.07063659
                                                  0.01565064 4.5133
                                       0.01109633
                                                  0.00751058 1.4774
## partyid3_namesNot Sure
## partyid3_namesOther
                                       0.02872999
                                                  0.01079072 2.6625
## partyid3_namesRepublican
                                       0.09598298 0.02117043 4.5338
## ethnocentric1
                                       0.01132530
                                                  0.00560884 2.0192
                                       0.00507409
                                                  0.00709368 0.7153
## wave
## Empathy:sex
                                       0.00293102 0.00790426 0.3708
## Empathy:birthyr
                                       0.00407951 0.00699749 0.5830
                                      -0.00850067
                                                  0.01621885 -0.5241
## Empathy:immigrant2
## Empathy:educ
                                      -0.00209481
                                                  0.00822777 -0.2546
                                      -0.02195930 0.02176901 -1.0087
## Empathy:religpew2
## Empathy:religpew3
                                      -0.01393307 0.05449758 -0.2557
                                      ## Empathy:religpew4
## Empathy:religpew5
                                       0.00833015
                                                  0.04173160 0.1996
## Empathy:religpew6
                                      -0.03608365
                                                  0.02375006 -1.5193
## Empathy:religpew7
                                      -0.02735358 0.08419927 -0.3249
                                       0.04242311 0.03416375 1.2418
## Empathy:religpew8
## Empathy:religpew9
                                      ## Empathy:religpew10
                                      ## Empathy:religpew11
                                       0.01417370 0.02132122 0.6648
## Empathy:religpew12
                                      ## Empathy:partyid3 namesIndependent
                                                  0.02140529 -0.9275
                                      -0.01985414
## Empathy:partyid3_namesNot Sure
                                       0.02775852 0.02690570 1.0317
## Empathy:partyid3_namesOther
                                      -0.03705905 0.02614591 -1.4174
## Empathy:partyid3_namesRepublican
                                      -0.00203085 0.03091827 -0.0657
## Empathy:ethnocentric1
                                      ## Empathy:wave
                                       0.00650277 0.01244640 0.5225
                                                  0.02261519 -0.9721
## partyid3_namesIndependent:wave
                                      -0.02198475
## partyid3_namesNot Sure:wave
                                      -0.00469432
                                                  0.00951141 -0.4935
## partyid3_namesOther:wave
                                       0.03605479
                                                  0.08312414 0.4337
## partyid3_namesRepublican:wave
                                      -0.05267608
                                                  0.02728345 -1.9307
## Empathy:partyid3_namesIndependent:wave 0.03516820
                                                  0.03306385 1.0636
## Empathy:partyid3_namesNot Sure:wave
                                                  0.03361726 -0.9162
                                      -0.03080101
## Empathy:partyid3_namesOther:wave
                                       0.02518945
                                                  0.11645203 0.2163
## Empathy:partyid3_namesRepublican:wave
                                                  0.03992784 0.0957
                                       0.00382047
##
                                       Pr(>|t|)
## (Intercept)
                                      0.0974879
## Empathy
                                      0.2588326
## sex
                                      0.0002351 ***
                                      0.0002810 ***
## birthyr
## immigrant2
                                      0.5686716
## educ
                                      0.2340618
```

```
0.7027527
## religpew2
                                           0.3192649
## religpew3
## religpew4
                                           0.6698080
## religpew5
                                           0.1529431
## religpew6
                                           0.0413943 *
## religpew7
                                           0.8752065
## religpew8
                                           0.0159176 *
## religpew9
                                           0.6196858
## religpew10
                                           0.2751261
## religpew11
                                           0.1714523
## religpew12
                                           0.1554946
## partyid3_namesIndependent
                                           6.589e-06 ***
## partyid3_namesNot Sure
                                           0.1396501
## partyid3_namesOther
                                           0.0077919 **
## partyid3_namesRepublican
                                           5.984e-06 ***
## ethnocentric1
                                           0.0435426 *
                                           0.4744720
## wave
## Empathy:sex
                                           0.7107974
## Empathy:birthyr
                                           0.5599330
## Empathy:immigrant2
                                           0.6002257
## Empathy:educ
                                           0.7990450
## Empathy:religpew2
                                           0.3131675
## Empathy:religpew3
                                           0.7982252
## Empathy:religpew4
                                           0.6338663
## Empathy:religpew5
                                           0.8417951
## Empathy:religpew6
                                           0.1287741
## Empathy:religpew7
                                           0.7453007
## Empathy:religpew8
                                           0.2144080
## Empathy:religpew9
                                           0.3605571
## Empathy:religpew10
                                           0.3426545
## Empathy:religpew11
                                           0.5062412
## Empathy:religpew12
                                           0.2201362
## Empathy:partyid3_namesIndependent
                                           0.3537123
## Empathy:partyid3_namesNot Sure
                                           0.3022846
## Empathy:partyid3_namesOther
                                           0.1564556
## Empathy:partyid3_namesRepublican
                                           0.9476327
## Empathy:ethnocentric1
                                           0.9350321
## Empathy:wave
                                           0.6013811
## partyid3_namesIndependent:wave
                                           0.3310554
## partyid3_namesNot Sure:wave
                                           0.6216572
## partyid3_namesOther:wave
                                           0.6644991
## partyid3 namesRepublican:wave
                                           0.0536001
## Empathy:partyid3_namesIndependent:wave 0.2875619
## Empathy:partyid3_namesNot Sure:wave
                                           0.3596106
## Empathy:partyid3_namesOther:wave
                                           0.8287605
## Empathy:partyid3_namesRepublican:wave 0.9237766
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
#Persuasion
back8<- lm(survey_neg ~ Persuasion + sex + Persuasion*sex + birthyr + Persuasion*birthyr + immigrant2 + Per
##
## t test of coefficients:
##
##
                                                Estimate Std. Error t value
## (Intercept)
                                               0.0185481 0.0111898 1.6576
```

```
## Persuasion
                                            -0.0183579 0.0160642 -1.1428
## sex
                                             0.0192223 0.0052210 3.6818
## birthyr
                                            -0.0179375 0.0049335 -3.6358
## immigrant2
                                            -0.0061753 0.0108327 -0.5701
## educ
                                             0.0069438 0.0058343 1.1902
                                            -0.0056660 0.0148466 -0.3816
## religpew2
## religpew3
                                            -0.0333056 0.0334357 -0.9961
## religpew4
                                             0.0350917 0.0822884 0.4264
## religpew5
                                            -0.0403273 0.0282104 -1.4295
                                            -0.0294208 0.0144198 -2.0403
## religpew6
## religpew7
                                             0.0089114 0.0567388 0.1571
## religpew8
                                            -0.0725831 0.0300930 -2.4120
## religpew9
                                            -0.0101720 0.0204940 -0.4963
                                            -0.0202345 0.0185382 -1.0915
## religpew10
## religpew11
                                            -0.0185555 0.0135657 -1.3678
## religpew12
                                             0.0373700 0.0263041 1.4207
## partyid3_namesIndependent
                                             0.0706366 0.0156506 4.5133
## partyid3_namesNot Sure
                                             0.0110963 0.0075106 1.4774
## partyid3_namesOther
                                             0.0287300 0.0107907 2.6625
## partyid3_namesRepublican
                                             0.0959830 0.0211704 4.5338
## ethnocentric1
                                             0.0113253 0.0056088 2.0192
## wave
                                             0.0050741 0.0070937 0.7153
## Persuasion:sex
                                             0.0004118 0.0074130 0.0556
## Persuasion:birthyr
                                            ## Persuasion:immigrant2
                                             0.0080127 0.0151878 0.5276
## Persuasion:educ
                                            -0.0023452 0.0078924 -0.2971
## Persuasion:religpew2
                                             0.0320868 0.0216728 1.4805
## Persuasion:religpew3
                                             0.1243397 0.0778883 1.5964
## Persuasion:religpew4
                                            -0.0070645 0.1123947 -0.0629
## Persuasion:religpew5
                                            0.1002474 0.0521577 1.9220
## Persuasion:religpew6
                                            -0.0071104 0.0242514 -0.2932
## Persuasion:religpew7
                                            -0.0056989 0.0723745 -0.0787
## Persuasion:religpew8
                                             0.0953424 0.0365623 2.6077
## Persuasion:religpew9
                                            -0.0128209 0.0254245 -0.5043
## Persuasion:religpew10
                                             0.0508122 0.0315012 1.6130
## Persuasion:religpew11
                                             0.0188734 0.0185336 1.0183
## Persuasion:religpew12
                                            -0.0419050 0.0308137 -1.3599
## Persuasion:partyid3_namesIndependent
                                            -0.0329771 0.0208685 -1.5802
## Persuasion:partyid3_namesNot Sure
                                             ## Persuasion:partyid3_namesOther
                                             0.1357655 0.0914006 1.4854
## Persuasion:partyid3_namesRepublican
                                             0.0626489 0.0332220 1.8858
## Persuasion:ethnocentric1
                                            -0.0073734 0.0073177 -1.0076
## Persuasion:wave
                                             0.0036123 0.0110610 0.3266
## partyid3_namesIndependent:wave
                                            -0.0219848 0.0226152 -0.9721
## partyid3_namesNot Sure:wave
                                            -0.0046943 0.0095114 -0.4935
## partyid3_namesOther:wave
                                             0.0360548 0.0831241 0.4337
## partyid3_namesRepublican:wave
                                            -0.0526761 0.0272835 -1.9307
## Persuasion:partyid3_namesIndependent:wave 0.0228974 0.0308290 0.7427
## Persuasion:partyid3_namesNot Sure:wave
                                            -0.0481810 0.0303249 -1.5888
## Persuasion:partyid3_namesOther:wave
                                            -0.1139795 0.1413456 -0.8064
                                           -0.0967651 0.0400833 -2.4141
## Persuasion:partyid3_namesRepublican:wave
##
                                             Pr(>|t|)
## (Intercept)
                                            0.0974879 .
## Persuasion
                                            0.2532054
                                            0.0002351 ***
## sex
## birthyr
                                            0.0002810 ***
## immigrant2
                                            0.5686716
```

```
## educ
                                              0.2340618
## religpew2
                                              0.7027527
## religpew3
                                              0.3192649
## religpew4
                                              0.6698080
## religpew5
                                              0.1529431
## religpew6
                                              0.0413943
## religpew7
                                              0.8752065
## religpew8
                                              0.0159176
## religpew9
                                              0.6196858
## religpew10
                                              0.2751261
## religpew11
                                              0.1714523
## religpew12
                                              0.1554946
## partyid3_namesIndependent
                                              6.589e-06 ***
## partyid3_namesNot Sure
                                              0.1396501
## partyid3_namesOther
                                              0.0077919 **
## partyid3_namesRepublican
                                              5.984e-06 ***
## ethnocentric1
                                              0.0435426
## wave
                                              0.4744720
## Persuasion:sex
                                              0.9557026
## Persuasion:birthyr
                                              0.3157183
## Persuasion:immigrant2
                                              0.5978251
## Persuasion:educ
                                              0.7663731
## Persuasion:religpew2
                                              0.1388259
## Persuasion:religpew3
                                              0.1104918
## Persuasion:religpew4
                                              0.9498861
## Persuasion:religpew5
                                              0.0546852
## Persuasion:religpew6
                                              0.7693912
## Persuasion:religpew7
                                              0.9372428
## Persuasion:religpew8
                                              0.0091543 **
## Persuasion:religpew9
                                              0.6140997
## Persuasion:religpew10
                                              0.1068279
## Persuasion:religpew11
                                              0.3085876
## Persuasion:religpew12
                                              0.1739328
## Persuasion:partyid3_namesIndependent
                                              0.1141431
## Persuasion:partyid3_namesNot Sure
                                              0.1089077
## Persuasion:partyid3_namesOther
                                              0.1375295
## Persuasion:partyid3 namesRepublican
                                              0.0594086
## Persuasion:ethnocentric1
                                              0.3137059
## Persuasion:wave
                                              0.7440017
## partyid3_namesIndependent:wave
                                              0.3310554
## partyid3_namesNot Sure:wave
                                              0.6216572
## partyid3 namesOther:wave
                                              0.6644991
## partyid3_namesRepublican:wave
                                              0.0536001 .
## Persuasion:partyid3_namesIndependent:wave 0.4576974
## Persuasion:partyid3_namesNot Sure:wave
                                              0.1121893
## Persuasion:partyid3_namesOther:wave
                                              0.4200727
## Persuasion:partyid3_namesRepublican:wave 0.0158246 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

Time effects: Further analysis into Wave 2

From H4a and H4b we know that the empathy and persuasion effects do not persist for Y6.

From H8a and H8b we know that the Empathy-muslim and Persuasion-muslim interaction effects do not persist for Y2. From H9a and H9b we know that the heterogeneous effect of empathy/persuasion with seeing Muslim refugee profiles on Y6 do not persist.

From H11a and H11b we know that the heterogeneous effect of the Empathy/persuasion treatments with seeing Muslim refugee profiles on Y4 do not persist.

For full look at Wave 2 on Y1, Y2, Y6 for Empathy and Persuasion treatment effects:

```
#Empathy
#Y1
```

te1<-lm(y1 ~Empathy+gender+Empathy*gender+birthyr1+Empathy*birthyr1+immigrant2+Empathy*immigrant2+educ1+Empathy*clx(te1, cluster=ControlEmpathy.data.y1.w2\$caseid)

```
## t test of coefficients:
##
                                       Estimate Std. Error
##
                                                                t value
## (Intercept)
                                     5.0000e-01 9.1878e-13 5.4420e+11
## Empathy
                                     2.6264e-11 1.0866e-12 2.4172e+01
                                    -2.1021e-14 9.3589e-15 -2.2461e+00
## gender
## birthyr1
                                     8.1581e-15 4.7262e-16 1.7261e+01
## immigrant2
                                    -1.2790e-14 1.0350e-14 -1.2358e+00
## educ1
                                    -9.7666e-15 3.4148e-15 -2.8601e+00
## religpew2
                                    -1.7588e-14 1.3177e-14 -1.3347e+00
## religpew3
                                     2.1972e-14 4.3735e-14 5.0240e-01
## religpew4
                                    -5.7219e-14 7.8239e-14 -7.3130e-01
## religpew5
                                    -9.7318e-15 3.5472e-14 -2.7440e-01
## religpew6
                                     -1.0052e-13 3.7939e-14 -2.6495e+00
## religpew7
                                    -6.2494e-14 4.3266e-14 -1.4444e+00
## religpew8
                                    -2.4309e-13 3.7238e-14 -6.5279e+00
## religpew9
                                    -9.5526e-14 1.9670e-14 -4.8564e+00
## religpew10
                                     -8.2454e-14 2.2779e-14 -3.6197e+00
## religpew11
                                    -7.9921e-14 1.5003e-14 -5.3271e+00
## religpew12
                                    -1.2418e-13 2.0395e-14 -6.0888e+00
## partyid3_namesIndependent
                                     2.2316e-14 1.1409e-14 1.9560e+00
## partyid3_namesNot Sure
                                    -8.5403e-14 2.0709e-14 -4.1240e+00
## partyid3_namesOther
                                     4.3181e-15 2.9026e-14 1.4880e-01
## partyid3_namesRepublican
                                    -7.9096e-15 1.2270e-14 -6.4460e-01
                                    -9.0230e-15 1.3427e-14 -6.7200e-01
## ethnocentric2
## Empathy:gender
                                     2.8385e-14 1.1060e-14 2.5665e+00
## Empathy:birthyr1
                                    -1.3426e-14 5.5756e-16 -2.4079e+01
## Empathy:immigrant2
                                     1.8712e-14 1.2212e-14 1.5322e+00
                                     9.2904e-15 3.9365e-15 2.3600e+00
## Empathy:educ1
                                     2.1237e-14 1.5881e-14 1.3373e+00
## Empathy:religpew2
## Empathy:religpew3
                                     1.0600e-14 5.0016e-14 2.1190e-01
## Empathy:religpew4
                                     2.9480e-14 8.1830e-14 3.6030e-01
## Empathy:religpew5
                                     1.4273e-14 3.9580e-14 3.6060e-01
## Empathy:religpew6
                                     2.1175e-13 4.0991e-14 5.1657e+00
## Empathy:religpew7
                                     1.2063e-13 5.1696e-14 2.3335e+00
## Empathy:religpew8
                                     1.6288e-13 3.8581e-14 4.2217e+00
                                     1.7093e-13 2.3700e-14 7.2123e+00
## Empathy:religpew9
## Empathy:religpew10
                                     1.2332e-13 2.6223e-14 4.7028e+00
## Empathy:religpew11
                                     1.2083e-13 1.7201e-14 7.0245e+00
## Empathy:religpew12
                                     1.6193e-13 2.3964e-14 6.7573e+00
## Empathy:partyid3_namesIndependent -2.8244e-14 1.3505e-14 -2.0914e+00
## Empathy:partyid3_namesNot Sure
                                     1.2255e-13 2.4123e-14 5.0800e+00
## Empathy:partyid3_namesOther
                                     6.4986e-14 3.6513e-14 1.7798e+00
## Empathy:partyid3_namesRepublican
                                     7.9018e-15 1.4601e-14 5.4120e-01
## Empathy:ethnocentric2
                                    -1.2380e-15 1.5097e-14 -8.2000e-02
##
                                     Pr(>|t|)
## (Intercept)
                                    < 2.2e-16 ***
```

```
## Empathy
                                     < 2.2e-16 ***
                                     0.0247177 *
## gender
## birthyr1
                                     < 2.2e-16 ***
## immigrant2
                                     0.2165733
## educ1
                                     0.0042429 **
## religpew2
                                     0.1819980
## religpew3
                                     0.6154083
## religpew4
                                     0.4645910
## religpew5
                                     0.7838193
## religpew6
                                     0.0080728 **
## religpew7
                                     0.1486524
## religpew8
                                     6.970e-11 ***
## religpew9
                                     1.212e-06 ***
## religpew10
                                     0.0002962 ***
## religpew11
                                     1.018e-07 ***
## religpew12
                                     1.176e-09 ***
                                     0.0504924 .
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                     3.751e-05 ***
                                     0.8817385
## partyid3_namesOther
## partyid3_namesRepublican
                                     0.5191767
## ethnocentric2
                                     0.5015815
## Empathy:gender
                                     0.0102862 *
## Empathy:birthyr1
                                     < 2.2e-16 ***
## Empathy:immigrant2
                                     0.1254950
## Empathy:educ1
                                     0.0182905 *
## Empathy:religpew2
                                     0.1811611
## Empathy:religpew3
                                     0.8321603
## Empathy:religpew4
                                     0.7186579
## Empathy:religpew5
                                     0.7184037
## Empathy:religpew6
                                     2.439e-07 ***
## Empathy:religpew7
                                     0.0196410 *
                                     2.445e-05 ***
## Empathy:religpew8
## Empathy:religpew9
                                     5.872e-13 ***
## Empathy:religpew10
                                     2.598e-06 ***
## Empathy:religpew11
                                     2.278e-12 ***
## Empathy:religpew12
                                     1.478e-11 ***
## Empathy:partyid3_namesIndependent 0.0365157 *
## Empathy:partyid3_namesNot Sure
                                     3.837e-07 ***
## Empathy:partyid3_namesOther
                                     0.0751342
## Empathy:partyid3_namesRepublican 0.5883940
## Empathy:ethnocentric2
                                     0.9346440
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
There is an empathy effect in wave 2 on Y1: estimate is 2.6264e-11, pvalue=< 2.2e-16 ***.
  #Y2
te2<-lm(y2 ~ Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educ+Empathy*edu
clx(te2, cluster=ControlEmpathy.data.y2.w2$caseid)
##
## t test of coefficients:
##
##
                                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                      5.045457 0.164058 30.7540 < 2.2e-16
## Empathy
                                      0.030908
                                                0.228952 0.1350 0.8926154
## sex
                                     -0.049447 0.056595 -0.8737 0.3822983
## birthyr
```

```
0.124681 -1.3201 0.1868444
## immigrant2
                                      -0.164587
                                                  0.055879 2.8822 0.0039573
## educ
                                       0.161053
## religpew2
                                      -0.104880
                                                  0.163227 -0.6425 0.5205365
## religpew3
                                       0.087525
                                                  0.397858 0.2200 0.8258832
## religpew4
                                       0.165673
                                                  0.649994 0.2549 0.7988179
                                                  0.424857 0.2353 0.8139921
## religpew5
                                       0.099962
## religpew6
                                                  0.420888 4.6760 2.960e-06
                                       1.968089
## religpew7
                                       0.320838
                                                  0.667187 0.4809 0.6306106
## religpew8
                                       1.011767
                                                  0.207443 4.8773 1.091e-06
## religpew9
                                       0.782839
                                                  0.232702 3.3641 0.0007705
## religpew10
                                       0.518597
                                                  0.247770 2.0931 0.0363671
## religpew11
                                       0.246366
                                                  0.164358 1.4990 0.1339126
                                                  0.233476 1.3489 0.1773904
## religpew12
                                       0.314941
## partyid3_namesIndependent
                                      -0.937746
                                                  0.136996 -6.8451 8.061e-12
                                                  0.262975 -4.1146 3.908e-05
## partyid3_namesNot Sure
                                      -1.082027
## partyid3_namesOther
                                      -1.274383
                                                  0.499709 -2.5502 0.0107784
                                                  0.153826 - 8.7272 < 2.2e - 16
## partyid3_namesRepublican
                                      -1.342462
## ethnocentric1
                                      -0.479541
                                                  0.078314 -6.1233 9.483e-10
## Empathy:sex
                                      0.081845
                                                  0.081092 1.0093 0.3128594
## Empathy:birthyr
                                      0.127085
                                                  0.085450 1.4873 0.1369774
                                                  0.176524 -0.2186 0.8269730
## Empathy:immigrant2
                                      -0.038587
## Empathy:educ
                                      -0.062496
                                                  0.082215 -0.7602 0.4471783
## Empathy:religpew2
                                      0.265119
                                                  0.231212 1.1466 0.2515530
## Empathy:religpew3
                                                  0.546563 1.2448 0.2132235
                                      0.680375
## Empathy:religpew4
                                      -0.685538
                                                  0.935741 -0.7326 0.4638094
                                                  0.590760 -0.3983 0.6903886
## Empathy:religpew5
                                      -0.235322
## Empathy:religpew6
                                      -1.524831
                                                  0.846311 -1.8017 0.0716144
## Empathy:religpew7
                                      0.409956
                                                  0.826183 0.4962 0.6197597
## Empathy:religpew8
                                      0.712815
                                                  0.273690
                                                            2.6045 0.0092145
## Empathy:religpew9
                                      -0.016619
                                                  0.338872 -0.0490 0.9608860
## Empathy:religpew10
                                                  0.339285 0.1354 0.8922792
                                      0.045947
## Empathy:religpew11
                                      -0.382367
                                                  0.233663 -1.6364 0.1017847
## Empathy:religpew12
                                      -0.292335
                                                  0.352188 -0.8301 0.4065266
## Empathy:partyid3_namesIndependent 0.018062
                                                  0.195068 0.0926 0.9262302
## Empathy:partyid3_namesNot Sure
                                       0.073297
                                                  0.358939 0.2042 0.8381973
## Empathy:partyid3_namesOther
                                       0.385216
                                                  0.740152 0.5205 0.6027569
## Empathy:partyid3 namesRepublican
                                       0.217015
                                                  0.213844 1.0148 0.3102105
                                       0.064725
                                                  0.102545 0.6312 0.5279349
## Empathy:ethnocentric1
##
## (Intercept)
                                      ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
                                      **
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
## religpew8
                                      ***
## religpew9
                                      ***
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                      ***
```

```
## partyid3_namesNot Sure
                                ***
## partyid3 namesOther
                                *
## partyid3 namesRepublican
## ethnocentric1
                                ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
                                **
## Empathy:religpew9
## Empathy:religpew10
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
No empathy effect in wave 2 on Y2.
 #Y6
te3<-lm(Y6_new ~ Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educ+Empathy
clx(te3)
## t test of coefficients:
##
                                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                                0.3326983 0.0390750 8.5144 < 2.2e-16
                                -0.0089769 0.0550976 -0.1629 0.8705948
## Empathy
                                0.0036990 0.0127017 0.2912 0.7709191
## sex
                                ## birthyr
## immigrant2
                                -0.0686091 0.0286277 -2.3966 0.0166520
## educ
                                ## religpew2
                                -0.0297784 0.0329817 -0.9029 0.3667139
## religpew3
                                ## religpew4
                                ## religpew5
                                0.0547985 0.1228704 0.4460 0.6556622
                                0.3224555 0.1473996 2.1876 0.0288280
## religpew6
## religpew7
                                0.4753436  0.1251774  3.7974  0.0001512
                                ## religpew8
## religpew9
                                0.1853630  0.0662924  2.7961  0.0052279
                                0.1381290 0.0714907 1.9321 0.0535045
## religpew10
## religpew11
                                ## religpew12
                                ## partyid3_namesIndependent
                              -0.1511029 0.0331549 -4.5575 5.534e-06
## partyid3_namesNot Sure
                               -0.1804924 0.0500609 -3.6055 0.0003203
## partyid3_namesOther
                                0.0799922 0.1438097 0.5562 0.5781198
                               -0.2294869 0.0317122 -7.2365 6.845e-13
## partyid3_namesRepublican
```

```
-0.0778801 0.0135606 -5.7431 1.093e-08
## ethnocentric1
                                    0.0052406 0.0181950 0.2880 0.7733619
## Empathy:sex
                                    0.0326670 0.0195862 1.6679 0.0955227
## Empathy:birthyr
## Empathy:immigrant2
                                    0.0557557 0.0407032 1.3698 0.1709209
## Empathy:educ
                                    0.0010039 0.0196137 0.0512 0.9591847
                                    0.0280379 0.0489744 0.5725 0.5670563
## Empathy:religpew2
## Empathy:religpew3
                                    0.0574264 0.1336326 0.4297 0.6674420
## Empathy:religpew4
                                    0.3309489 0.1807748 1.8307 0.0673109
## Empathy:religpew5
                                   -0.0576801 0.1487874 -0.3877 0.6983088
## Empathy:religpew6
                                    -0.2589520 0.2283237 -1.1341 0.2568888
## Empathy:religpew7
## Empathy:religpew8
                                   -0.3068306  0.0779309  -3.9372  8.565e-05
                                    -0.1171954 0.0945729 -1.2392 0.2154341
## Empathy:religpew9
## Empathy:religpew10
                                    -0.0517305 0.0494478 -1.0462 0.2956291
## Empathy:religpew11
## Empathy:religpew12
                                    -0.0070189 0.0798187 -0.0879 0.9299376
## Empathy:partyid3_namesIndependent 0.0424649 0.0482499 0.8801 0.3789234
## Empathy:partyid3_namesNot Sure
                                    -0.0683641 0.0643516 -1.0624 0.2882213
## Empathy:partyid3_namesOther
                                    -0.1270521 0.1922708 -0.6608 0.5088286
## Empathy:partyid3_namesRepublican -0.0093893 0.0443512 -0.2117 0.8323628
                                    -0.0039594 0.0196624 -0.2014 0.8404343
## Empathy:ethnocentric1
##
## (Intercept)
                                    ***
## Empathy
## sex
## birthyr
## immigrant2
## educ
## religpew2
## religpew3
## religpew4
## religpew5
## religpew6
## religpew7
                                    ***
## religpew8
## religpew9
                                    **
## religpew10
## religpew11
## religpew12
## partyid3_namesIndependent
                                    ***
## partyid3_namesNot Sure
                                    ***
## partyid3 namesOther
## partyid3_namesRepublican
                                    ***
## ethnocentric1
                                    ***
## Empathy:sex
## Empathy:birthyr
## Empathy:immigrant2
## Empathy:educ
## Empathy:religpew2
## Empathy:religpew3
## Empathy:religpew4
## Empathy:religpew5
## Empathy:religpew6
## Empathy:religpew7
## Empathy:religpew8
                                    ***
## Empathy:religpew9
## Empathy:religpew10
```

```
## Empathy:religpew11
## Empathy:religpew12
## Empathy:partyid3 namesIndependent
## Empathy:partyid3_namesNot Sure
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
## Empathy:ethnocentric1
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
No empathy effect in wave 2 on Y6.
#Persuasion
  #Y1
pe1<-lm(y1 ~ Persuasion+gender+Persuasion*gender+birthyr1+Persuasion*birthyr1+immigrant2+Persuasion*immigra
clx(pe1, cluster=ControlPersuasion.data.y1.w2$caseid)
## t test of coefficients:
##
                                          Estimate Std. Error
                                                                   t value
## (Intercept)
                                        5.0000e-01 1.3886e-13 3.6009e+12
## Persuasion
                                       -2.9640e-12 3.2366e-13 -9.1577e+00
## gender
                                       -8.0893e-15 1.5337e-15 -5.2745e+00
                                        1.1656e-15 7.2409e-17 1.6098e+01
## birthyr1
## immigrant2
                                        -3.1451e-15 1.6259e-15 -1.9343e+00
## educ1
                                       -2.2028e-15 5.5537e-16 -3.9665e+00
                                        -2.9947e-15 2.1276e-15 -1.4076e+00
## religpew2
                                        5.3306e-15 7.5625e-15 7.0490e-01
## religpew3
## religpew4
                                        6.4036e-15 8.2036e-15 7.8060e-01
## religpew5
                                       -7.0086e-15 6.2634e-15 -1.1190e+00
                                       -1.2379e-14 7.6017e-15 -1.6284e+00
## religpew6
                                        -1.5266e-14 5.2662e-15 -2.8989e+00
## religpew7
## religpew8
                                       -2.6332e-14 4.7481e-15 -5.5458e+00
## religpew9
                                       -1.7937e-14 3.1687e-15 -5.6607e+00
## religpew10
                                        -1.7644e-14 3.5418e-15 -4.9816e+00
## religpew11
                                       -1.3290e-14 2.3964e-15 -5.5458e+00
## religpew12
                                       -2.0004e-14 3.2596e-15 -6.1370e+00
## partyid3_namesIndependent
                                        2.2356e-15 1.8274e-15 1.2234e+00
                                       -1.5563e-14 3.3707e-15 -4.6170e+00
## partyid3_namesNot Sure
## partyid3_namesOther
                                        2.5920e-15 6.1291e-15 4.2290e-01
## partyid3 namesRepublican
                                       -1.1785e-15 1.9786e-15 -5.9560e-01
                                       -2.4393e-14 3.1382e-15 -7.7728e+00
## ethnocentric2
## Persuasion:gender
                                        1.3762e-15 3.5500e-15 3.8770e-01
## Persuasion:birthyr1
                                        1.4957e-15 1.6670e-16 8.9722e+00
## Persuasion:immigrant2
                                       -4.0034e-15 3.8304e-15 -1.0452e+00
                                       -6.9971e-16 1.2669e-15 -5.5230e-01
## Persuasion:educ1
## Persuasion:religpew2
                                       -6.7164e-15 5.0826e-15 -1.3215e+00
## Persuasion:religpew3
                                       -2.6802e-14 1.4381e-14 -1.8637e+00
## Persuasion:religpew4
                                       -3.4505e-14 2.6494e-14 -1.3024e+00
                                        1.3472e-14 1.1653e-14 1.1561e+00
## Persuasion:religpew5
## Persuasion:religpew6
                                       -4.5079e-14 1.9376e-14 -2.3265e+00
## Persuasion:religpew7
                                       -4.6202e-15 1.8079e-14 -2.5560e-01
## Persuasion:religpew8
                                       -5.2238e-14 9.1099e-15 -5.7342e+00
                                       -1.1873e-14 7.4097e-15 -1.6023e+00
## Persuasion:religpew9
## Persuasion:religpew10
                                       -6.3139e-15 8.0811e-15 -7.8130e-01
## Persuasion:religpew11
                                       -1.5455e-14 5.4120e-15 -2.8557e+00
## Persuasion:religpew12
                                        1.9401e-18 6.9236e-15 3.0000e-04
```

```
## Persuasion:partyid3_namesIndependent
                                          4.5409e-15 4.2512e-15 1.0681e+00
                                          4.1010e-15 7.4261e-15 5.5220e-01
## Persuasion:partyid3_namesNot Sure
## Persuasion:partyid3_namesOther
                                         -6.8510e-15 1.2140e-14 -5.6430e-01
## Persuasion:partyid3_namesRepublican
                                          4.9811e-15 4.4524e-15 1.1187e+00
## Persuasion:ethnocentric2
                                          2.4593e-14 4.9467e-15 4.9716e+00
##
                                          Pr(>|t|)
## (Intercept)
                                         < 2.2e-16 ***
## Persuasion
                                         < 2.2e-16 ***
## gender
                                         1.357e-07 ***
## birthyr1
                                         < 2.2e-16 ***
                                          0.053097
## immigrant2
## educ1
                                         7.342e-05 ***
                                          0.159288
## religpew2
## religpew3
                                          0.480903
## religpew4
                                          0.435064
## religpew5
                                          0.263179
## religpew6
                                          0.103459
## religpew7
                                          0.003752 **
## religpew8
                                         2.996e-08 ***
## religpew9
                                         1.546e-08 ***
## religpew10
                                         6.403e-07 ***
## religpew11
                                         2.995e-08 ***
## religpew12
                                         8.704e-10 ***
## partyid3_namesIndependent
                                          0.221208
## partyid3 namesNot Sure
                                         3.939e-06 ***
## partyid3_namesOther
                                          0.672378
## partyid3_namesRepublican
                                          0.551432
## ethnocentric2
                                         8.378e-15 ***
## Persuasion:gender
                                          0.698279
## Persuasion:birthyr1
                                         < 2.2e-16 ***
## Persuasion:immigrant2
                                          0.295969
## Persuasion:educ1
                                          0.580750
## Persuasion:religpew2
                                          0.186374
## Persuasion:religpew3
                                          0.062396
## Persuasion:religpew4
                                          0.192821
## Persuasion:religpew5
                                          0.247683
## Persuasion:religpew6
                                          0.020013 *
## Persuasion:religpew7
                                          0.798297
## Persuasion:religpew8
                                         1.006e-08 ***
## Persuasion:religpew9
                                          0.109108
## Persuasion:religpew10
                                          0.434634
## Persuasion:religpew11
                                          0.004303 **
## Persuasion:religpew12
                                          0.999776
## Persuasion:partyid3_namesIndependent
                                          0.285484
## Persuasion:partyid3_namesNot Sure
                                          0.580796
## Persuasion:partyid3_namesOther
                                          0.572536
## Persuasion:partyid3_namesRepublican
                                          0.263280
## Persuasion:ethnocentric2
                                         6.743e-07 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
There is a negative statistically significant effect of persuasion on Y1 in wave 2: estimate -2.9640e-12, pvalue=<
```

There is a negative statistically significant effect of persuasion on Y1 in wave 2: estimate -2.9640e-12, pvalue=< 2.2e-16 ***.

```
#Y2
```

pe2<-lm(y2 ~ Persuasion+sex+Persuasion*sex+birthyr+Persuasion*birthyr+immigrant2+Persuasion*immigrant2+educclx(pe2, cluster=ControlPersuasion.data.y2.w2\$caseid)

```
## t test of coefficients:
##
##
                                         Estimate Std. Error t value
## (Intercept)
                                         5.045457 0.164058 30.7540
                                         ## Persuasion
## sex
                                        -0.049447 0.056595 -0.8737
## birthyr
                                         0.028943
                                                    0.061647 0.4695
## immigrant2
                                        -0.164587
                                                    0.124681 -1.3201
                                                    0.055879 2.8822
## educ
                                         0.161053
                                                    0.163227 -0.6425
## religpew2
                                        -0.104880
## religpew3
                                         0.087525
                                                    0.397858 0.2200
## religpew4
                                         0.165673
                                                    0.649994 0.2549
## religpew5
                                         0.099962
                                                    0.424857 0.2353
## religpew6
                                         1.968089
                                                    0.420888 4.6760
## religpew7
                                         0.320838
                                                    0.667187 0.4809
## religpew8
                                                    0.207443 4.8773
                                         1.011767
## religpew9
                                         0.782839
                                                    0.232702 3.3641
## religpew10
                                         0.518597
                                                    0.247770 2.0931
## religpew11
                                         0.246366
                                                    0.164358 1.4990
                                                    0.233476 1.3489
## religpew12
                                         0.314941
## partyid3_namesIndependent
                                        -0.937746
                                                    0.136996 -6.8451
## partyid3_namesNot Sure
                                        -1.082027
                                                    0.262975 -4.1146
## partyid3_namesOther
                                        -1.274383
                                                    0.499709 -2.5502
## partyid3 namesRepublican
                                        -1.342462
                                                    0.153826 -8.7272
## ethnocentric1
                                        -0.479541
                                                    0.078314 -6.1233
## Persuasion:sex
                                        -0.092440
                                                    0.081802 -1.1300
## Persuasion:birthyr
                                        0.268419
                                                    0.085007 3.1576
## Persuasion:immigrant2
                                        -0.167993
                                                    0.173828 -0.9664
## Persuasion:educ
                                        -0.055023
                                                    0.079291 -0.6939
## Persuasion:religpew2
                                         0.142997
                                                    0.230626 0.6200
                                                    0.478865 0.2803
## Persuasion:religpew3
                                         0.134245
## Persuasion:religpew4
                                         0.861742
                                                    0.941272 0.9155
## Persuasion:religpew5
                                        -0.111342
                                                    0.566890 -0.1964
## Persuasion:religpew6
                                        -0.408074
                                                    0.546288 -0.7470
                                                    0.843516 0.0405
## Persuasion:religpew7
                                        0.034162
                                                    0.319459 1.0847
## Persuasion:religpew8
                                        0.346503
## Persuasion:religpew9
                                        -0.503723
                                                    0.357230 -1.4101
## Persuasion:religpew10
                                        -0.317253
                                                    0.336215 -0.9436
## Persuasion:religpew11
                                        -0.322185
                                                    0.239533 -1.3451
## Persuasion:religpew12
                                        -0.522985
                                                    0.360616 -1.4503
## Persuasion:partyid3 namesIndependent 0.183304
                                                    0.197208 0.9295
## Persuasion:partyid3_namesNot Sure
                                                    0.376883 0.3060
                                         0.115317
## Persuasion:partyid3_namesOther
                                         0.414627
                                                    0.672330 0.6167
## Persuasion:partyid3_namesRepublican
                                         0.090928
                                                    0.212155 0.4286
## Persuasion:ethnocentric1
                                         0.071998
                                                    0.101003 0.7128
##
                                         Pr(>|t|)
## (Intercept)
                                        < 2.2e-16
## Persuasion
                                        0.4008051
## sex
                                        0.3822983
## birthyr
                                        0.6387242
## immigrant2
                                        0.1868444
## educ
                                        0.0039573 **
## religpew2
                                        0.5205365
## religpew3
                                        0.8258832
## religpew4
                                        0.7988179
## religpew5
                                        0.8139921
```

```
## religpew6
                                     2.960e-06 ***
## religpew7
                                     0.6306106
## religpew8
                                     1.091e-06 ***
## religpew9
                                     0.0007705 ***
## religpew10
                                     0.0363671 *
## religpew11
                                     0.1339126
                                     0.1773904
## religpew12
## partyid3 namesIndependent
                                    8.061e-12 ***
## partyid3_namesNot Sure
                                    3.908e-05 ***
## partyid3_namesOther
                                     0.0107784 *
## partyid3_namesRepublican
                                     < 2.2e-16 ***
## ethnocentric1
                                     9.483e-10 ***
## Persuasion:sex
                                     0.2584842
## Persuasion:birthyr
                                     0.0015951 **
## Persuasion:immigrant2
                                     0.3338485
## Persuasion:educ
                                     0.4877356
## Persuasion:religpew2
                                     0.5352447
## Persuasion:religpew3
                                     0.7792221
## Persuasion:religpew4
                                     0.3599455
## Persuasion:religpew5
                                     0.8442942
## Persuasion:religpew6
                                     0.4550836
## Persuasion:religpew7
                                     0.9676955
## Persuasion:religpew8
                                     0.2780979
## Persuasion:religpew9
                                     0.1585457
## Persuasion:religpew10
                                     0.3453942
## Persuasion:religpew11
                                     0.1786363
## Persuasion:religpew12
                                     0.1470168
## Persuasion:partyid3_namesIndependent 0.3526534
## Persuasion:partyid3_namesNot Sure
                                     0.7596286
## Persuasion:partyid3_namesOther
                                     0.5374444
## Persuasion:partyid3_namesRepublican 0.6682298
## Persuasion:ethnocentric1
                                     0.4759621
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
No statistically significant effect of persuasion on y2 in wave2.
pe3<-lm(Y6_new ~ Persuasion+sex+Persuasion*sex+birthyr+Persuasion*birthyr+immigrant2+Persuasion*immigrant2+
clx(pe3)
##
## t test of coefficients:
##
##
                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                           0.0030702 0.0063150 0.4862 0.6268677
## sex
                          ## birthyr
                          ## immigrant2
## educ
                           0.0466556 0.0068609 6.8002 1.219e-11 ***
                           0.0043429 0.0173630 0.2501 0.8025055
## religpew2
## religpew3
                           0.0077895 0.0484834 0.1607 0.8723673
## religpew4
                           0.0110289 0.0635042 0.1737 0.8621331
## religpew5
                           0.0706203 0.0476170 1.4831 0.1381383
```

0.2915672 0.0791092 3.6856 0.0002315 ***

0.0375459 0.1195756 0.3140 0.7535448

religpew6
religpew7

religpew8

religpew9

```
## religpew10
                    ## religpew11
                    0.0786464 0.0288368 2.7273 0.0064167 **
## religpew12
## partyid3_namesNot Sure -0.1809280 0.0222893 -8.1173 6.492e-16 ***
## partyid3_names0ther 0.0290661 0.0858821 0.3384 0.7350499
## partyid3_namesRepublican -0.2019256 0.0152419 -13.2480 < 2.2e-16 ***
## ethnocentric1
                   -0.0763197  0.0067539  -11.3001 < 2.2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

No statistically significant effect of persuasion on y6 in wave2. Further visual analysis conducted in graphs/plots

```
section. ### What happens in Wave 2 for HTE on Party?
##### Y6
#H2a in Wave 2
party.time1<-lm(Y6_new ~ Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educ
clx(party.time1)
## t test of coefficients:
##
##
                                         Estimate Std. Error t value
                                        0.19653930 0.02920152 6.7304
## (Intercept)
                                        0.14218984 0.04291502 3.3133
## Empathy
## sex
                                       0.00718957 0.00869800 0.8266
                                       -0.02761301 0.00928416 -2.9742
## birthyr
## immigrant2
                                       -0.03484990 0.01941282 -1.7952
                                        0.05692900 0.00973918 5.8454
## educ
                                        0.02324919 0.02381181 0.9764
## religpew2
## religpew3
                                       ## religpew4
                                       -0.00450481 0.08524029 -0.0528
## religpew5
                                        0.09404454 0.07244981 1.2981
## religpew6
                                        0.22054774 0.11706857 1.8839
## religpew7
                                        0.32509154 0.10596037 3.0680
## religpew8
                                        ## religpew9
                                        0.15842454 0.04577987 3.4606
## religpew10
                                       0.13838420 0.04358282 3.1752
## religpew11
                                       0.01861900 0.02357822 0.7897
                                       0.09046311 0.03909681 2.3138
## religpew12
                                       -0.02410731 0.03126840 -0.7710
## partyid3_namesIndependent
## partyid3 namesNot Sure
                                       -0.07984311 0.03841810 -2.0783
                                       -0.21699120 0.06251275 -3.4712
## partyid3_namesOther
## partyid3_namesRepublican
                                       -0.12647020 0.02729531 -4.6334
## ethnocentric1
                                       0.10792022 0.03414463 3.1607
## wave
## Empathy:sex
                                       -0.00697944 0.01266874 -0.5509
                                       0.02709228 0.01348142 2.0096
## Empathy:birthyr
## Empathy:immigrant2
                                       -0.00083072 0.02783832 -0.0298
## Empathy:educ
                                       -0.01928910 0.01370085 -1.4079
                                       -0.03601946 0.03453491 -1.0430
## Empathy:religpew2
## Empathy:religpew3
                                       0.06078647 0.09940560 0.6115
## Empathy:religpew4
                                       0.03064325 0.12561896 0.2439
## Empathy:religpew5
                                       -0.04361020 0.09650222 -0.4519
                                       -0.21571750 0.15768982 -1.3680
## Empathy:religpew6
## Empathy:religpew7
                                       ## Empathy:religpew8
                                       0.01131328 0.23393715 0.0484
```

Empathy:religpew9

```
## Empathy:religpew10
                                        -0.05254890 0.03371415 -1.5587
## Empathy:religpew11
## Empathy:religpew12
                                        -0.01786613 0.05761778 -0.3101
## Empathy:partyid3_namesIndependent
                                        ## Empathy:partyid3_namesNot Sure
                                        -0.12353945 0.06264582 -1.9720
                                         0.37125902 0.28662198 1.2953
## Empathy:partyid3_namesOther
## Empathy:partyid3_namesRepublican
                                        -0.08418041 0.04159931 -2.0236
## Empathy:ethnocentric1
                                        ## Empathy:wave
                                        ## partyid3_namesIndependent:wave
                                        -0.13195891
                                                     0.04539710 -2.9068
                                        -0.10413551 0.06000928 -1.7353
## partyid3_namesNot Sure:wave
## partyid3_namesOther:wave
                                         0.28345431
                                                     0.15624436 1.8142
                                        -0.11466095
                                                     0.04074356 -2.8142
## partyid3_namesRepublican:wave
## Empathy:partyid3_namesIndependent:wave 0.16566871
                                                     0.06584514 2.5160
## Empathy:partyid3_namesNot Sure:wave
                                         0.05469439
                                                     0.08730865 0.6264
## Empathy:partyid3_namesOther:wave
                                        -0.46941558
                                                     0.34453410 -1.3625
## Empathy:partyid3_namesRepublican:wave
                                         0.09599028
                                                     0.05956608 1.6115
##
                                         Pr(>|t|)
## (Intercept)
                                        1.964e-11 ***
## Empathy
                                        0.0009313 ***
                                        0.4085322
## sex
                                        0.0029573 **
## birthyr
## immigrant2
                                        0.0727068
## educ
                                        5.511e-09 ***
## religpew2
                                        0.3289466
                                        0.7900537
## religpew3
## religpew4
                                        0.9578557
## religpew5
                                        0.1943495
## religpew6
                                        0.0596576
## religpew7
                                        0.0021709 **
## religpew8
                                        0.7144667
                                        0.0005454 ***
## religpew9
## religpew10
                                        0.0015102 **
## religpew11
                                        0.4297738
## religpew12
                                        0.0207343 *
                                        0.4407702
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                        0.0377564 *
                                        0.0005244 ***
## partyid3_namesOther
## partyid3_namesRepublican
                                        3.726e-06 ***
                                        2.324e-14 ***
## ethnocentric1
## wave
                                        0.0015873 **
## Empathy:sex
                                        0.5817245
## Empathy:birthyr
                                        0.0445489 *
## Empathy:immigrant2
                                        0.9761956
## Empathy:educ
                                        0.1592553
## Empathy:religpew2
                                        0.2970255
                                        0.5409082
## Empathy:religpew3
## Empathy:religpew4
                                        0.8072929
## Empathy:religpew5
                                        0.6513623
## Empathy:religpew6
                                        0.1714030
## Empathy:religpew7
                                        0.5799276
## Empathy:religpew8
                                        0.9614318
                                        0.5470696
## Empathy:religpew9
## Empathy:religpew10
                                        0.1290082
## Empathy:religpew11
                                        0.1191660
## Empathy:religpew12
                                        0.7565182
## Empathy:partyid3_namesIndependent
                                        0.0139507 *
```

```
## Empathy:partyid3_namesNot Sure
                                        0.0486837 *
## Empathy:partyid3_namesOther
                                        0.1953040
## Empathy:partyid3_namesRepublican
                                        0.0430860 *
## Empathy:ethnocentric1
                                        0.2545970
## Empathy:wave
                                        0.0189679 *
## partyid3_namesIndependent:wave
                                        0.0036744 **
## partyid3_namesNot Sure:wave
                                        0.0827704 .
## partyid3 namesOther:wave
                                        0.0697355 .
## partyid3_namesRepublican:wave
                                        0.0049167 **
## Empathy:partyid3_namesIndependent:wave 0.0119121 *
## Empathy:partyid3_namesNot Sure:wave
                                        0.5310610
## Empathy:partyid3_namesOther:wave
                                        0.1731377
## Empathy:partyid3_namesRepublican:wave 0.1071614
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
#H2b in Wave 2
party.time2 <- lm( Y6_new ~ Persuasion + sex + Persuasion*sex + birthyr + Persuasion*birthyr + immigrant2 +
clx(party.time2)
##
## t test of coefficients:
                                             Estimate Std. Error t value
##
                                            0.1965393 0.0292015 6.7304
## (Intercept)
## Persuasion
                                            0.0363403 0.0408431 0.8898
## sex
                                            0.0071896 0.0086980 0.8266
                                           -0.0276130 0.0092842 -2.9742
## birthyr
## immigrant2
                                           -0.0348499 0.0194128 -1.7952
## educ
                                            0.0569290 0.0097392 5.8454
                                            0.0232492 0.0238118 0.9764
## religpew2
## religpew3
                                           -0.0140340 0.0527078 -0.2663
## religpew4
                                           ## religpew5
                                            0.0940445 0.0724498 1.2981
                                            0.2205477 0.1170686 1.8839
## religpew6
                                            0.3250915 0.1059604 3.0680
## religpew7
## religpew8
                                            0.0204190 0.0558059 0.3659
## religpew9
                                            0.1584245 0.0457799 3.4606
## religpew10
                                            0.1383842 0.0435828 3.1752
## religpew11
                                            0.0186190 0.0235782 0.7897
## religpew12
                                            0.0904631 0.0390968 2.3138
## partyid3_namesIndependent
                                           -0.0241073 0.0312684 -0.7710
                                           -0.0798431 0.0384181 -2.0783
## partyid3_namesNot Sure
                                           ## partyid3_namesOther
## partyid3_namesRepublican
                                           ## ethnocentric1
                                           -0.0694363 0.0090609 -7.6633
                                            0.1079202 0.0341446 3.1607
## wave
## Persuasion:sex
                                           -0.0076486 0.0124835 -0.6127
## Persuasion:birthyr
                                           0.0317132 0.0131118 2.4187
## Persuasion:immigrant2
                                           0.0265927 0.0274349 0.9693
                                           -0.0125598 0.0136890 -0.9175
## Persuasion:educ
## Persuasion:religpew2
                                           -0.0358468 0.0337218 -1.0630
## Persuasion:religpew3
                                           0.0098603 0.1008529 0.0978
## Persuasion:religpew4
                                           -0.0760294 0.1255959 -0.6053
## Persuasion:religpew5
                                           -0.1405433 0.0900629 -1.5605
## Persuasion:religpew6
                                           -0.1737135 0.1442251 -1.2045
## Persuasion:religpew7
                                           -0.1295174 0.1433841 -0.9033
## Persuasion:religpew8
                                           0.6658884 0.0648020 10.2757
```

```
## Persuasion:religpew9
                                            -0.0483166 0.0651465 -0.7417
                                            -0.0760473 0.0616150 -1.2342
## Persuasion:religpew10
## Persuasion:religpew11
                                            -0.0292026 0.0340419 -0.8578
## Persuasion:religpew12
                                            ## Persuasion:partyid3_namesIndependent
                                            -0.0733839 0.0435056 -1.6868
                                            -0.0540576 0.0582902 -0.9274
## Persuasion:partyid3_namesNot Sure
## Persuasion:partyid3_namesOther
                                             0.1136859 0.1293787 0.8787
## Persuasion:partyid3 namesRepublican
                                            -0.0228769 0.0392378 -0.5830
## Persuasion:ethnocentric1
                                            ## Persuasion:wave
                                             -0.0607592 0.0469876 -1.2931
                                            -0.1319589 0.0453971 -2.9068
## partyid3_namesIndependent:wave
## partyid3_namesNot Sure:wave
                                            -0.1041355 0.0600093 -1.7353
                                             0.2834543 0.1562444 1.8142
## partyid3_namesOther:wave
## partyid3_namesRepublican:wave
                                             -0.1146609 0.0407436 -2.8142
## Persuasion:partyid3_namesIndependent:wave 0.1646231 0.0641844 2.5648
## Persuasion:partyid3_namesNot Sure:wave
                                             0.0820064 0.0895241 0.9160
                                                        0.2074507 -1.4141
## Persuasion:partyid3_namesOther:wave
                                             -0.2933477
## Persuasion:partyid3_namesRepublican:wave
                                             0.0764439 0.0572325 1.3357
##
                                             Pr(>|t|)
## (Intercept)
                                            1.964e-11 ***
## Persuasion
                                            0.3736591
## sex
                                            0.4085322
## birthyr
                                            0.0029573 **
## immigrant2
                                            0.0727068 .
## educ
                                            5.511e-09 ***
## religpew2
                                            0.3289466
## religpew3
                                            0.7900537
## religpew4
                                            0.9578557
## religpew5
                                            0.1943495
## religpew6
                                            0.0596576
## religpew7
                                            0.0021709 **
## religpew8
                                            0.7144667
## religpew9
                                            0.0005454 ***
## religpew10
                                            0.0015102 **
## religpew11
                                            0.4297738
## religpew12
                                            0.0207343 *
## partyid3 namesIndependent
                                            0.4407702
                                            0.0377564 *
## partyid3_namesNot Sure
## partyid3_namesOther
                                            0.0005244 ***
                                            3.726e-06 ***
## partyid3_namesRepublican
## ethnocentric1
                                            2.324e-14 ***
## wave
                                            0.0015873 **
                                            0.5401142
## Persuasion:sex
## Persuasion:birthyr
                                            0.0156273 *
## Persuasion:immigrant2
                                            0.3324606
## Persuasion:educ
                                            0.3589375
## Persuasion:religpew2
                                            0.2878479
## Persuasion:religpew3
                                            0.9221210
## Persuasion:religpew4
                                            0.5449859
## Persuasion:religpew5
                                            0.1187306
## Persuasion:religpew6
                                            0.2284917
## Persuasion:religpew7
                                            0.3664335
## Persuasion:religpew8
                                            < 2.2e-16 ***
## Persuasion:religpew9
                                            0.4583421
## Persuasion:religpew10
                                            0.2171980
## Persuasion:religpew11
                                            0.3910374
## Persuasion:religpew12
                                            0.6682653
```

```
## Persuasion:partyid3_namesIndependent
                                            0.0917359
## Persuasion:partyid3_namesNot Sure
                                            0.3537888
## Persuasion:partyid3_namesOther
                                            0.3796199
## Persuasion:partyid3_namesRepublican
                                           0.5599087
## Persuasion:ethnocentric1
                                           0.7161484
## Persuasion:wave
                                           0.1960641
## partyid3_namesIndependent:wave
                                           0.0036744 **
## partyid3 namesNot Sure:wave
                                           0.0827704
## partyid3_namesOther:wave
                                           0.0697355 .
## partyid3_namesRepublican:wave
                                            0.0049167 **
## Persuasion:partyid3_namesIndependent:wave 0.0103630 *
## Persuasion:partyid3_namesNot Sure:wave
                                           0.3597159
## Persuasion:partyid3_namesOther:wave
                                            0.1574321
## Persuasion:partyid3_namesRepublican:wave 0.1817417
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##### Y2
party.time3 <- lm(y2 ~ Empathy+sex+Empathy*sex+birthyr+Empathy*birthyr+immigrant2+Empathy*immigrant2+educ+F
clx(party.time3,ControlEmpathy.data.y2$caseid)
##
## t test of coefficients:
##
##
                                          Estimate Std. Error t value
## (Intercept)
                                         5.2404027 0.1273951 41.1350
## Empathy
                                         -0.0320533 0.1763098 -0.1818
                                         -0.0136181 0.0398495 -0.3417
## sex
                                         0.0466456 0.0410589 1.1361
## birthyr
## immigrant2
                                         -0.2108386 0.0869093 -2.4260
                                         0.1634263 0.0397580 4.1105
## educ
## religpew2
                                         ## religpew3
                                         0.0344380 0.2585399 0.1332
## religpew4
                                         0.5287839 0.2980133 1.7744
                                         0.2775059 0.2411772 1.1506
## religpew5
                                         1.3709243 0.3991940 3.4342
## religpew6
## religpew7
                                         0.3723120 0.4104714 0.9070
## religpew8
                                         1.2156667 0.3778585 3.2173
## religpew9
                                         0.5618166 0.1635120 3.4359
                                         0.4722237 0.1633062 2.8916
## religpew10
## religpew11
                                         0.1408488 0.1165882 1.2081
## religpew12
                                         0.4577951 0.1685001 2.7169
                                         -0.8719613 0.1293329 -6.7420
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                         -0.8120155 0.2401422 -3.3814
                                         0.6722100 0.4295618 1.5649
## partyid3_namesOther
## partyid3_namesRepublican
                                         -1.1067293 0.1450727 -7.6288
                                         -0.4013477 0.0541203 -7.4158
## ethnocentric1
                                         -0.0939051 0.1203300 -0.7804
## wave
## Empathy:sex
                                         0.0323650 0.0566928 0.5709
## Empathy:birthyr
                                         0.1427359 0.0577654 2.4710
                                         0.0298774 0.1231204 0.2427
## Empathy:immigrant2
                                         -0.0283740 0.0572135 -0.4959
## Empathy:educ
## Empathy:religpew2
                                         0.2630471 0.1649799 1.5944
## Empathy:religpew3
                                         ## Empathy:religpew4
                                         -1.3437615 0.6104091 -2.2014
## Empathy:religpew5
                                        -0.4139344 0.3669216 -1.1281
## Empathy:religpew6
                                        -0.9804396  0.6802543  -1.4413
## Empathy:religpew7
                                         0.5225507 0.4889867 1.0686
```

```
## Empathy:religpew8
                                           -0.0291014 0.5199958 -0.0560
                                           -0.2156281 0.2378102 -0.9067
## Empathy:religpew9
                                           -0.1349224 0.2299177 -0.5868
## Empathy:religpew10
## Empathy:religpew11
                                           -0.2990820 0.1652004 -1.8104
## Empathy:religpew12
                                           -0.5113436 0.2433316 -2.1014
                                           0.3479006 0.1814273 1.9176
## Empathy:partyid3_namesIndependent
## Empathy:partyid3_namesNot Sure
                                            0.0894020 0.3488440 0.2563
## Empathy:partyid3 namesOther
                                           -2.2333515 1.7814651 -1.2537
## Empathy:partyid3_namesRepublican
                                           -0.0855415 0.2106574 -0.4061
## Empathy:ethnocentric1
                                            0.0050858 0.0717840 0.0708
                                            0.0287197 0.1718747 0.1671
## Empathy:wave
## partyid3_namesIndependent:wave
                                           -0.0998165 0.1869498 -0.5339
## partyid3_namesNot Sure:wave
                                           -0.3165067 0.3416312 -0.9265
## partyid3_namesOther:wave
                                           -2.0175652 0.6577694 -3.0673
## partyid3_namesRepublican:wave
                                           -0.2927065 0.1974116 -1.4827
## Empathy:partyid3_namesIndependent:wave -0.3080484 0.2649479 -1.1627
## Empathy:partyid3_namesNot Sure:wave
                                            0.0198579 0.4857468 0.0409
## Empathy:partyid3_namesOther:wave
                                            2.6626573 1.9230227
                                                                  1.3846
## Empathy:partyid3_namesRepublican:wave
                                            0.3071568 0.2845265 1.0795
                                            Pr(>|t|)
                                           < 2.2e-16 ***
## (Intercept)
## Empathy
                                           0.8557407
## sex
                                           0.7325506
                                           0.2559418
## birthyr
## immigrant2
                                           0.0152761
## educ
                                           3.962e-05 ***
## religpew2
                                           0.2445910
## religpew3
                                           0.8940350
## religpew4
                                           0.0760172
## religpew5
                                           0.2498969
                                           0.0005954 ***
## religpew6
## religpew7
                                           0.3643982
## religpew8
                                           0.0012962 **
                                           0.0005916 ***
## religpew9
## religpew10
                                           0.0038361 **
## religpew11
                                           0.2270267
## religpew12
                                           0.0065952 **
                                           1.602e-11 ***
## partyid3_namesIndependent
## partyid3_namesNot Sure
                                           0.0007225 ***
## partyid3_namesOther
                                           0.1176272
## partyid3_namesRepublican
                                           2.468e-14 ***
## ethnocentric1
                                           1.253e-13 ***
                                           0.4351664
## wave
## Empathy:sex
                                           0.5680849
## Empathy:birthyr
                                           0.0134827 *
## Empathy:immigrant2
                                           0.8082647
                                           0.6199475
## Empathy:educ
## Empathy:religpew2
                                           0.1108568
                                           0.2493414
## Empathy:religpew3
## Empathy:religpew4
                                           0.0277175 *
## Empathy:religpew5
                                           0.2592786
## Empathy:religpew6
                                           0.1495190
## Empathy:religpew7
                                           0.2852440
## Empathy:religpew8
                                           0.9553704
                                           0.3645632
## Empathy:religpew9
## Empathy:religpew10
                                           0.5573245
## Empathy:religpew11
                                           0.0702446 .
```

```
## Empathy:religpew12
                                         0.0356151 *
## Empathy:partyid3_namesIndependent
                                         0.0551781
## Empathy:partyid3_namesNot Sure
                                         0.7977365
## Empathy:partyid3_namesOther
                                         0.2099792
## Empathy:partyid3_namesRepublican
                                         0.6846957
## Empathy:ethnocentric1
                                         0.9435192
## Empathy:wave
                                         0.8672955
## partyid3 namesIndependent:wave
                                         0.5934013
## partyid3_namesNot Sure:wave
                                         0.3542188
## partyid3_namesOther:wave
                                         0.0021628
## partyid3_namesRepublican:wave
                                         0.1381629
## Empathy:partyid3_namesIndependent:wave 0.2449741
## Empathy:partyid3_namesNot Sure:wave
                                         0.9673910
## Empathy:partyid3_namesOther:wave
                                         0.1661828
## Empathy:partyid3_namesRepublican:wave 0.2803607
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
party.time4 <- lm(y2 ~ Persuasion+sex+Persuasion*sex+birthyr+Persuasion*birthyr+ immigrant2 + Persuasion*in
clx(party.time4,ControlPersuasion.data.y2$caseid)
##
## t test of coefficients:
##
##
                                             Estimate Std. Error t value
## (Intercept)
                                             5.2404027 0.1273951 41.1350
                                             0.0367328 0.1764476 0.2082
## Persuasion
                                            -0.0136181 0.0398495 -0.3417
## sex
                                             0.0466456 0.0410589 1.1361
## birthyr
## immigrant2
                                            -0.2108386 0.0869093 -2.4260
                                             0.1634263 0.0397580 4.1105
## educ
## religpew2
                                            ## religpew3
                                             0.0344380 0.2585399 0.1332
## religpew4
                                             0.5287839 0.2980133 1.7744
                                             0.2775059 0.2411772 1.1506
## religpew5
## religpew6
                                             1.3709243 0.3991940 3.4342
## religpew7
                                             0.3723120 0.4104714 0.9070
## religpew8
                                             1.2156667 0.3778585 3.2173
## religpew9
                                             0.5618166 0.1635120 3.4359
## religpew10
                                             0.4722237 0.1633062 2.8916
## religpew11
                                             0.1408488 0.1165882 1.2081
                                            0.4577951 0.1685001 2.7169
## religpew12
## partyid3_namesIndependent
                                            -0.8719613 0.1293329 -6.7420
## partyid3_namesNot Sure
                                            -0.8120155 0.2401422 -3.3814
## partyid3_namesOther
                                            0.6722100 0.4295618 1.5649
## partyid3_namesRepublican
                                            -1.1067293 0.1450727 -7.6288
## ethnocentric1
                                            -0.4013477 0.0541203 -7.4158
## wave
                                            -0.0939051 0.1203300 -0.7804
## Persuasion:sex
                                            -0.0566074 0.0569587 -0.9938
                                             0.2168055 0.0563632 3.8466
## Persuasion:birthyr
## Persuasion:immigrant2
                                            -0.0404125 0.1219312 -0.3314
## Persuasion:educ
                                            -0.0408076 0.0561752 -0.7264
## Persuasion:religpew2
                                            0.2095000 0.1662258 1.2603
## Persuasion:religpew3
                                             0.2521717 0.3491229 0.7223
## Persuasion:religpew4
                                            0.2082334 0.5241938 0.3972
## Persuasion:religpew5
                                            -0.2068059 0.5509321 -0.3754
## Persuasion:religpew6
                                             0.3270123 0.5022172 0.6511
## Persuasion:religpew7
```

```
## Persuasion:religpew8
                                             0.3422710 0.4392485 0.7792
                                            -0.1153709 0.2338467 -0.4934
## Persuasion:religpew9
## Persuasion:religpew10
                                            -0.2163846 0.2310107 -0.9367
## Persuasion:religpew11
                                            -0.2206977 0.1675622 -1.3171
## Persuasion:religpew12
                                            -0.5387144 0.2618107 -2.0576
                                             0.0017266 0.1868963 0.0092
## Persuasion:partyid3_namesIndependent
## Persuasion:partyid3_namesNot Sure
                                            ## Persuasion:partyid3 namesOther
                                            -1.7693241 0.6162063 -2.8713
## Persuasion:partyid3_namesRepublican
                                            -0.2947065 0.2070842 -1.4231
                                             0.0360448 0.0725583 0.4968
## Persuasion:ethnocentric1
## Persuasion:wave
                                            -0.0074220 0.1682797 -0.0441
## partyid3_namesIndependent:wave
                                            -0.0998165 0.1869498 -0.5339
                                            -0.3165067 0.3416312 -0.9265
## partyid3_namesNot Sure:wave
## partyid3_namesOther:wave
                                             -2.0175652 0.6577694 -3.0673
## partyid3_namesRepublican:wave
                                            -0.2927065 0.1974116 -1.4827
## Persuasion:partyid3_namesIndependent:wave 0.1719694 0.2696465 0.6378
## Persuasion:partyid3_namesNot Sure:wave
                                             0.2706335 0.5060271 0.5348
## Persuasion:partyid3_namesOther:wave
                                             ## Persuasion:partyid3_namesRepublican:wave
                                             0.4146381 0.2817911 1.4714
                                             Pr(>|t|)
                                             < 2.2e-16 ***
## (Intercept)
## Persuasion
                                            0.8350907
## sex
                                            0.7325506
## birthyr
                                            0.2559418
## immigrant2
                                            0.0152761
                                            3.962e-05 ***
## educ
## religpew2
                                            0.2445910
## religpew3
                                            0.8940350
## religpew4
                                            0.0760172
## religpew5
                                            0.2498969
## religpew6
                                            0.0005954 ***
## religpew7
                                            0.3643982
## religpew8
                                            0.0012962 **
## religpew9
                                            0.0005916 ***
## religpew10
                                            0.0038361 **
## religpew11
                                            0.2270267
## religpew12
                                            0.0065952 **
## partyid3_namesIndependent
                                            1.602e-11 ***
## partyid3_namesNot Sure
                                            0.0007225 ***
## partyid3_namesOther
                                            0.1176272
## partyid3_namesRepublican
                                            2.468e-14 ***
## ethnocentric1
                                            1.253e-13 ***
                                            0.4351664
## wave
## Persuasion:sex
                                            0.3203164
## Persuasion:birthyr
                                            0.0001201 ***
## Persuasion:immigrant2
                                            0.7403174
## Persuasion:educ
                                            0.4675808
## Persuasion:religpew2
                                            0.2075628
## Persuasion:religpew3
                                            0.4701175
## Persuasion:religpew4
                                            0.6911907
## Persuasion:religpew5
                                            0.3961199
## Persuasion:religpew6
                                            0.7073856
## Persuasion:religpew7
                                            0.5149648
## Persuasion:religpew8
                                            0.4358589
## Persuasion:religpew9
                                            0.6217622
## Persuasion:religpew10
                                            0.3489303
## Persuasion:religpew11
                                            0.1878160
```

```
## Persuasion:religpew12
                                             0.0396359 *
## Persuasion:partyid3_namesIndependent
                                             0.9926289
## Persuasion:partyid3_namesNot Sure
                                             0.8056097
## Persuasion:partyid3_namesOther
                                             0.0040916 **
## Persuasion:partyid3_namesRepublican
                                             0.1547146
## Persuasion:ethnocentric1
                                             0.6193563
## Persuasion:wave
                                             0.9648210
## partyid3 namesIndependent:wave
                                             0.5934013
## partyid3_namesNot Sure:wave
                                             0.3542188
## partyid3_namesOther:wave
                                             0.0021628
## partyid3_namesRepublican:wave
                                             0.1381629
## Persuasion:partyid3_namesIndependent:wave 0.5236377
                                             0.5927798
## Persuasion:partyid3_namesNot Sure:wave
## Persuasion:partyid3_namesOther:wave
                                             0.0171672 *
## Persuasion:partyid3_namesRepublican:wave 0.1411874
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
#average refugee rating for those who wrote a letter (group 1) and those who did not (group 0): all control
t.test(y2~Y6_new,data=Control.data.y2)#use Y6 for
##
##
    Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -44.72, df = 4258.7, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.703341 -1.560264
## sample estimates:
## mean in group 0 mean in group 1
          4.200548
                          5.832350
  #just wave 1
t.test(y2~Y6_new,data=Control.data.y2.w1)
##
##
    Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -29.31, df = 1828.1, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.612224 -1.409996
## sample estimates:
## mean in group 0 mean in group 1
                          5.863135
##
          4.352025
#average refugee rating for those who wrote a letter (group 1) and those who did not (group 0): only Dems
t.test(y2~Y6_new,data=subset(Control.data.y2,partyid3_names=="Democrat"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -17.766, df = 2921.9, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.9975247 -0.7992210
```

```
## sample estimates:
## mean in group 0 mean in group 1
         5.039127
                          5.937500
  #just wave 1
t.test(y2~Y6_new,data=subset(Control.data.y2.w1,partyid3_names=="Democrat"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -14.335, df = 1147, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.1301002 -0.8579868
## sample estimates:
## mean in group 0 mean in group 1
         5.096234
                          6.090278
##
#average refugee rating for those who wrote a letter (group 1) and those who did not (group 0): only Independent
t.test(y2~Y6_new,data=subset(Control.data.y2,partyid3_names=="Independent"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -30.585, df = 1480.2, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -2.063331 -1.814620
## sample estimates:
## mean in group 0 mean in group 1
          3.925170
                          5.864146
##
  #just wave 1
t.test(y2~Y6_new,data=subset(Control.data.y2.w1,partyid3_names=="Independent"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -21.643, df = 932.19, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.935404 -1.613594
## sample estimates:
## mean in group 0 mean in group 1
##
          4.043683
                          5.818182
#average refugee rating for those who wrote a letter (group 1) and those who did not (group 0): only Republic
t.test(y2~Y6_new,data=subset(Control.data.y2,partyid3_names=="Republican"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -10.96, df = 170.45, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.687549 -1.172452
```

```
## sample estimates:
## mean in group 0 mean in group 1
         3.688055
                         5.118056
  #just wave 1
t.test(y2~Y6_new,data=subset(Control.data.y2.w1,partyid3_names=="Republican"))
##
##
   Welch Two Sample t-test
##
## data: y2 by Y6_new
## t = -3.7783, df = 65.89, p-value = 0.0003419
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -1.3284638 -0.4098615
## sample estimates:
## mean in group 0 mean in group 1
                        4.750000
         3.880837
##
```

ACDE for nudge hypothesis: are people who are most likely to respond to treatment with writing letters also maxed out on ratings values?

```
install_github("mattblackwell/DirectEffects", ref = "master")
## Downloading GitHub repo mattblackwell/DirectEffects@master
## from URL https://api.github.com/repos/mattblackwell/DirectEffects/zipball/master
## Installing DirectEffects
## '/Library/Frameworks/R.framework/Resources/bin/R' --no-site-file \
##
     --no-environ --no-save --no-restore --quiet CMD INSTALL \
##
     '/private/var/folders/hb/r_vc96rs4mz9ywqy7tt8tzsr0000gn/T/RtmpR27ZcP/devtools394a24fadd96/mattblackwel
##
     --library='/Library/Frameworks/R.framework/Versions/3.5/Resources/library' \
##
     --install-tests
##
## Reloading installed DirectEffects
library(DirectEffects)
library(boot)
##
## Attaching package: 'boot'
## The following object is masked from 'package:lattice':
##
##
       melanoma
## The following object is masked from 'package:survival':
##
##
       aml
# Creating the mediator
ControlEmpathy.data.y2.w1$y2binary<-ifelse(ControlEmpathy.data.y2.w1$y2==7 | ControlEmpathy.data.y2.w1$y2==6,
first<-lm(Y6_new ~ Empathy + y2binary,data=ControlEmpathy.data.y2.w1)
Y6_new.mediator.predicted <- ControlEmpathy.data.y2.w1$y2binary * coef(first)[3]
Y6_new.mediator.adjusted<-ControlEmpathy.data.y2.w1$Y6_new-Y6_new.mediator.predicted
ControlEmpathy.data.y2.w1.version_1<-cbind(ControlEmpathy.data.y2.w1,Y6_new.mediator.adjusted)
# Subset for low
```

```
# Subset for high
ControlEmpathy.data.y2.w1.version_1.high_rating<-ControlEmpathy.data.y2.w1.version_1[which(ControlEmpathy.data.y2.w1.version_1]
low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy, data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy, data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy, data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy, data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy.data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy.data=ControlEmpathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy.data.y2.w1.version_1.low_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy.data.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_rating.y2.w1.version_1.low_r
summary(low_rating.predicted)
##
## Call:
## lm(formula = Y6_new.mediator.adjusted ~ Empathy, data = ControlEmpathy.data.y2.w1.version_1.low_rating)
##
## Residuals:
##
               Min
                                   10
                                            Median
                                                                      30
                                                                                      Max
## -0.10871 -0.10871 -0.08514 -0.08514 0.91486
##
## Coefficients:
##
                             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.085138
                                                  0.005128 16.601 < 2e-16 ***
## Empathy
                             0.023570
                                                  0.007249
                                                                        3.251 0.00115 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.2957 on 6652 degrees of freedom
## Multiple R-squared: 0.001587,
                                                                      Adjusted R-squared: 0.001437
## F-statistic: 10.57 on 1 and 6652 DF, p-value: 0.001154
high_rating.predicted<-lm(Y6_new.mediator.adjusted ~ Empathy,data=ControlEmpathy.data.y2.w1.version_1.high_
summary(high_rating.predicted)
##
## Call:
## lm(formula = Y6 new.mediator.adjusted ~ Empathy, data = ControlEmpathy.data.y2.w1.version 1.high rating)
##
## Residuals:
             Min
##
                               1Q Median
                                                              30
                                                                            Max
## -0.3816 -0.3816 -0.3001 0.6184 0.6999
##
## Coefficients:
                             Estimate Std. Error t value Pr(>|t|)
##
## (Intercept) 0.05617
                                                     0.01037
                                                                        5.418 6.37e-08 ***
                                                                        5.558 2.90e-08 ***
## Empathy
                               0.08155
                                                    0.01467
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4723 on 4144 degrees of freedom
## Multiple R-squared: 0.0074, Adjusted R-squared: 0.00716
## F-statistic: 30.89 on 1 and 4144 DF, p-value: 2.897e-08
#bootstrapped s.e. for coefficient on Empathy
#get Beta fn
beta <- function(formula, data, indices) {</pre>
   d <- data[indices,] # allows boot to select sample</pre>
   fit <- lm(formula, data=d)</pre>
   return(coef(fit)[2])
}
# bootstrapping with 10000 replications
results_low <- boot(data=ControlEmpathy.data.y2.w1.version_1.low_rating, statistic=beta, R=10000, formula=Y
results_high <- boot(data=ControlEmpathy.data.y2.w1.version_1.high_rating, statistic=beta, R=10000, formula
```

ControlEmpathy.data.y2.w1.version_1.low_rating<-ControlEmpathy.data.y2.w1.version_1[which(ControlEmpathy.data.y2.w1.version_1[which(ControlEmpathy.data.y2.w1.version_1]]