**Prejudice competition Frequently Asked Questions and General Info:**

(this is a living document and we will update it over time)

**Variables:**

-Some variables included in the data were used to create the dependent variables of “bias” and “outgroup\_att.” These variables are: “WarmOG, PositiveOG, LikeOG, WarmIG, PositiveIG, LikeIG, diff\_warm, diff\_pos, diff\_like.”

Because these variables were used to create the DVs, please avoid using them as IVs

May 9- Relatedly, please avoid using “outgroup\_att” to predict “bias”, or the reverse (since they are both DVs and one is used in the calculation of the other)

**NEW May 15-** Solutions should also not include “Outgroup”, this is just to demarcate toward what group questions were directed

May 9-In the initial training set, the “generalized” threat variable was flipped (meaning, a more positive value represented LESS threat), due to a coding mistake on our end. We have corrected that in train.csv as of May 9. If you’d like you can also just multiply this variable by -1 to correct it.

May 9-“outgroup\_att” is coded such that a more positive value represents more positive attitudes toward the target group (see the variable key for specific items). In Hehman & Neel, 2024 we flipped this variable to such that a more positive value meant more *prejudice* toward the target group (less positive attitudes). Teams may notice that their coefficients are reversed from Prejudice 1.0 Outgroup Attitudes model. We will make sure this doesn’t impact any team’s performance.

**Teams:**

-Additional people who helped develop the models can join your team, even if you didn’t initially sign up with them (as long as still 3 max per team). Just include their names and contact info when submitting your solution.

**NEW May 15-** If something on this FAQ or additional information that you learn (or corrected mistakes that we have made) makes you want to revise your models, your team can submit another solution by filling out the submission survey again. We will accept the most recent submission from every team.

**Useful links:**

overview: <https://hehmanlab.org/competition>

submission page: <https://mcgillpsy.co1.qualtrics.com/jfe/form/SV_cwiWmzyIzfSGCoe>

**Possibly useful R code:**

#creating functions to run the models

#Prejudice 1.0 - Bias

#creating a function to test predictions

predict\_bias <- function(contact\_quality,contact\_friendsz,generalized,symbolic,identification\_selfinvestment) {

bias = -.209\*contact\_quality + -.119\*contact\_friendsz + .120\*generalized + .173\*symbolic + .523\*identification\_selfinvestment

return(bias)

}

```

#saving the model prediction as a variable

d$result\_bias <- predict\_bias(d$contact\_quality, d$contact\_friendsz, d$generalized, d$symbolic, d$identification\_selfinvestment)

#testing against observed data

m1 <- lm(bias ~ result\_bias, d)

lm.beta(m1)#this is the correlation between the prediction and observed

#which is .7626559 over entire train.csv

#calculating RMSE

sqrt(mean(m1$residuals^2))

#which is .890926 over entire train.csv

#calculating adjusted R2

summary(m1)

R2<-.5816 #your multiple R2 in results

n<-2010 #observations, should be 2010

k<-5 #number of predictors/parameters in model

#function to calculate based on the inputs above

adj\_r2 <- function(x) {

return (1 - ((1-R2)\*(n-1)/(n-k-1)))

}

adj\_r2(m1)

#which is .5805561 over entire train.csv