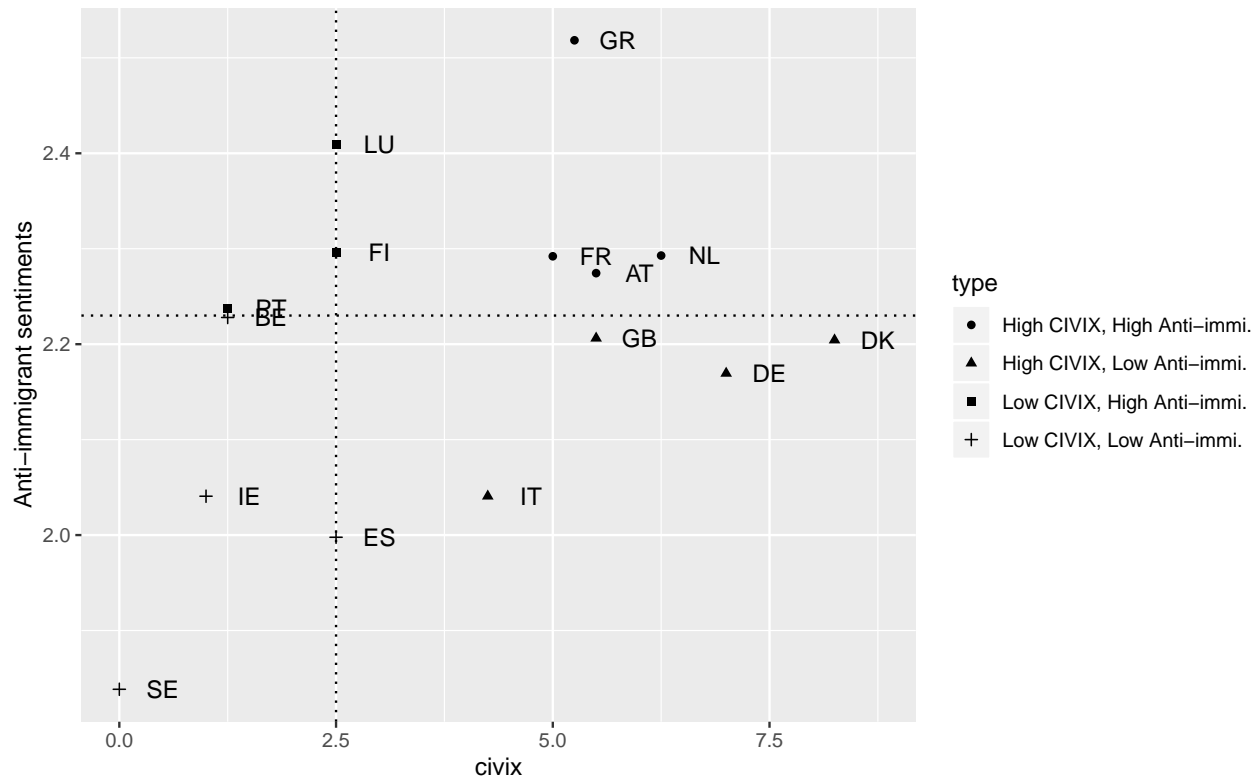# Anti-immigrant and CIVIX

Yuan-Ning Chu

1/24/2020

Two-by-two table

```
summary(ess_raw$anti1)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   1.745   2.115   2.228   2.230   2.293   2.813
```

```
t1 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti1 > 2.230)
table(t1$cntry) # high CIVIX high anti-immigrant sentiments
```

```
##
##  AT  FR  GR  NL
## 128 155 350 170
```

```
t1.5 = ess_h.tenyr %>% group_by(cntry) %>% filter(anti1 <= 2.230)
table(t1.5$cntry)
```

```
##
##  DE  DK  GB  IT
## 285 107 368  16
```

```
t2 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 > 2.230)
table(t2$cntry) # low CIVIX high anti-immigrant sentiments
```

```
##
##  FI  LU  PT
##  88 278 242
```

```
t3 = ess_l.tenyr %>% group_by(cntry) %>% filter(anti1 <= 2.230)
table(t3$cntry) # low CIVIX low anti-immigrant sentiments
```

```
##
##  BE  ES  IE  SE
## 216 530 690 177
```

Interactions

Political Interests

```
summary(ess_tenyr$polintr) # political interests
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   1.000   2.000   3.000   2.777   4.000   4.000      25
```

```
summary(ess_tenyr$poli.gap) # gap with native citizens
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -2.0314 -0.5194  0.2885  0.1875  1.0166  1.6829      25
```

```
##
## Call:
## lm(formula = polintr ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.3542 -0.6139  0.0004  0.7160  2.0532
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.351414   0.303194  11.054  < 2e-16 ***
## agea          -0.008771   0.001541  -5.691 1.40e-08 ***
## ethnic         0.058932   0.039753   1.482   0.1383
## female         0.180686   0.034601   5.222 1.90e-07 ***
## edu           -0.178749   0.011851 -15.083  < 2e-16 ***
## eubirth       -0.109506   0.043643  -2.509   0.0122 *
## citizen       -0.086737   0.041509  -2.090   0.0367 *
## civix.d       -3.509722   0.552743  -6.350 2.51e-10 ***
## anti1          0.136018   0.138943   0.979   0.3277
## civix.d:anti1  1.473913   0.246523   5.979 2.54e-09 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

2

```
##
## Residual standard error: 0.9051 on 2766 degrees of freedom
##   (2336 observations deleted due to missingness)
## Multiple R-squared:  0.139,  Adjusted R-squared:  0.1362
## F-statistic: 49.62 on 9 and 2766 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = poli.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.54699 -0.59625 -0.01503  0.69041  2.11359
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.136861   0.301126   3.775 0.000163 ***
## agea         -0.008942   0.001531  -5.841 5.79e-09 ***
## ethnic        0.080930   0.039482   2.050 0.040479 *
## female        0.180771   0.034365   5.260 1.55e-07 ***
## edu          -0.166053   0.011770 -14.108  < 2e-16 ***
## eubirth      -0.056800   0.043345  -1.310 0.190171
## citizen      -0.067151   0.041226  -1.629 0.103461
## civix.d      -0.714869   0.548974  -1.302 0.192959
## anti1        -0.113152   0.137996  -0.820 0.412304
## civix.d:anti1 0.317662   0.244842   1.297 0.194596
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.899 on 2766 degrees of freedom
##   (2336 observations deleted due to missingness)
## Multiple R-squared:  0.1017, Adjusted R-squared:  0.09878
## F-statistic: 34.79 on 9 and 2766 DF,  p-value: < 2.2e-16
```

```r
library(broom)

pred.hh.1 = polintr.1 %>%
  broom::augment(newdata = dat.hh, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit,
         group = "hh") %>%
  dplyr::select(.fitted, upper, lower, group)

pred.hl.1 = polintr.1 %>%
  broom::augment(newdata = dat.hl, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit,
         group = "hl") %>%
  dplyr::select(.fitted, upper, lower, group)

pred.lh.1 = polintr.1 %>%
  broom::augment(newdata = dat.lh, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit,
```
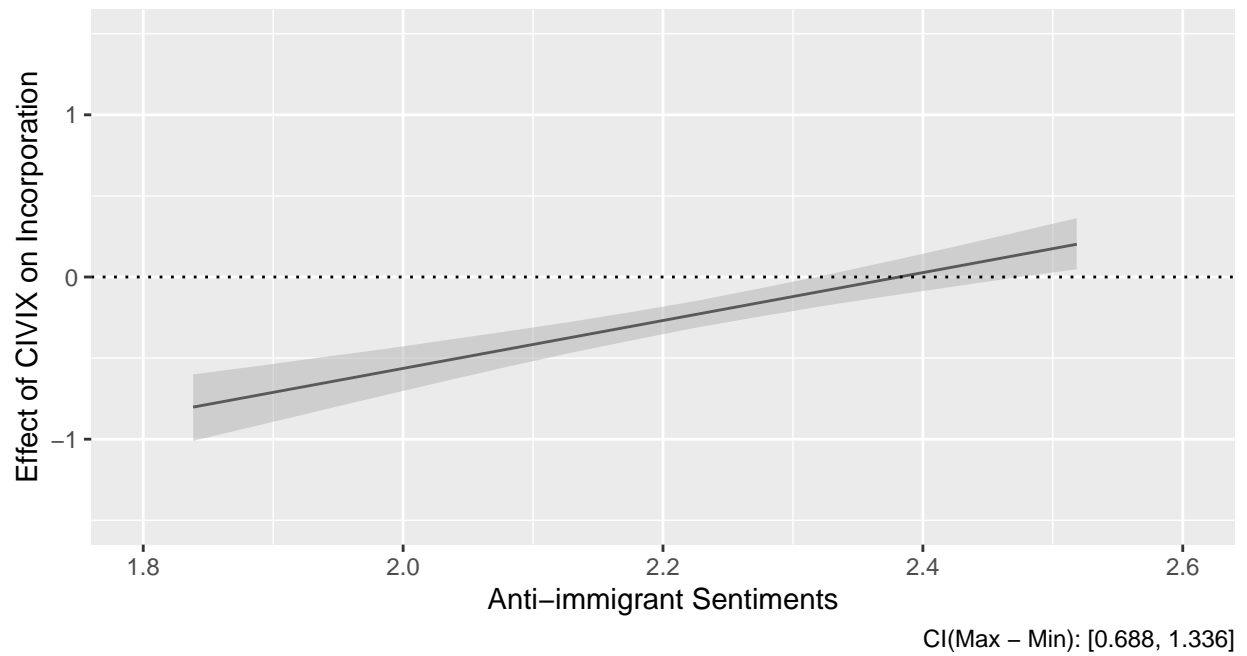
CI(Max − Min): [0.688, 1.336]

Figure 1: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Abs. Level)

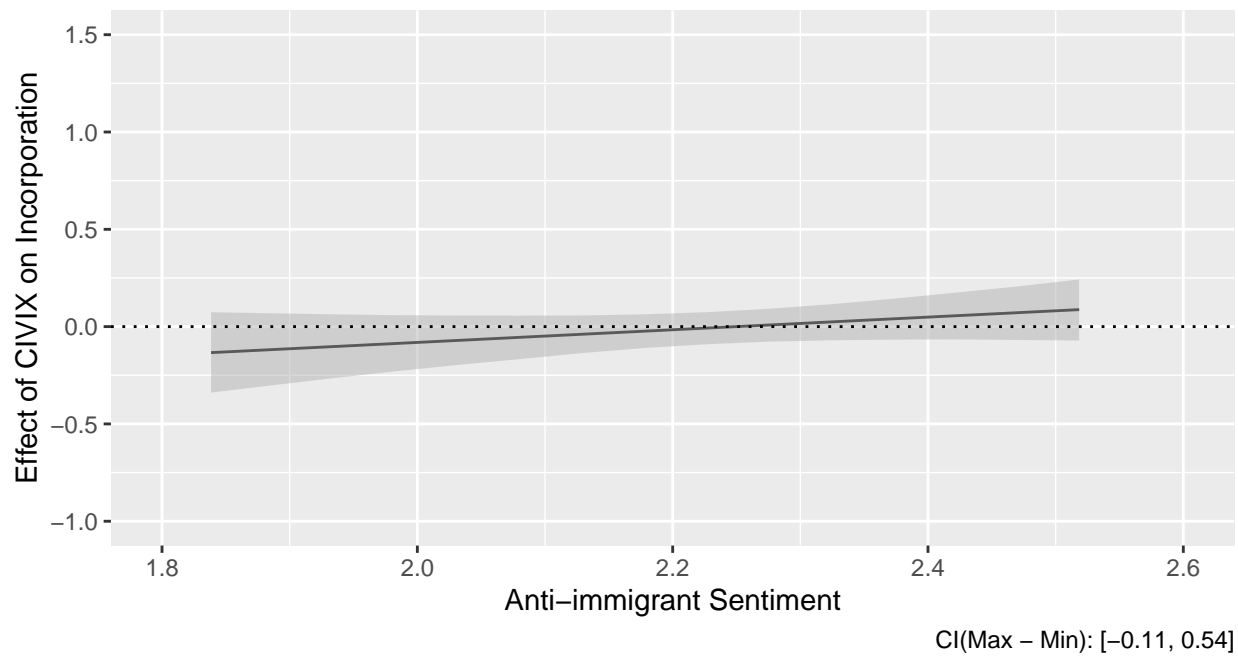CI(Max − Min): [−0.11, 0.54]

Figure 2: Effect of CIVIX conditional on Anti-immigrant Sentiments: Interests in Politics (Gap w/Natives)
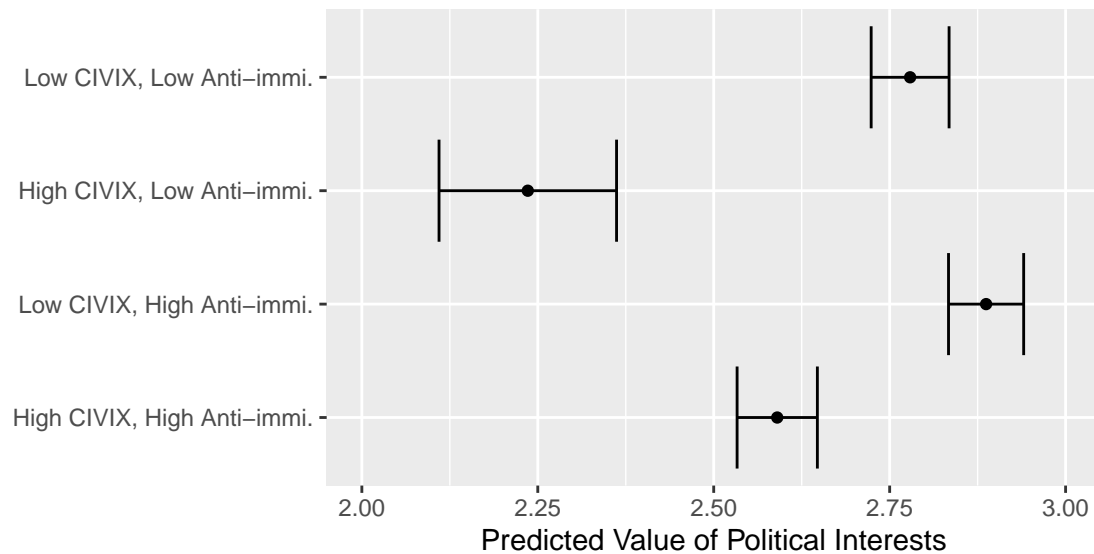
4

```
        group = "lh") %>%
  dplyr::select(.fitted, upper, lower, group)

pred.ll.1 = polintr.1 %>%
  broom::augment(newdata = dat.ll, predict = "response") %>%
  mutate(upper = .fitted + 1.96 * .se.fit,
         lower = .fitted - 1.96 * .se.fit,
         group = "ll")%>%
  dplyr::select(.fitted, upper, lower, group)

pred.1 = rbind(pred.hh.1, pred.hl.1, pred.lh.1, pred.ll.1)
pred.1 = pred.1 %>% mutate(group = c('High CIVIX, High Anti-immi.', 'High CIVIX, Low Anti-immi.','Low CI
pred.1 = pred.1 %>% mutate(group = factor(group, levels = c('High CIVIX, High Anti-immi.','Low CIVIX, Hi


ggplot(data = pred.1) +
  geom_errorbarh(aes(y = group, xmax = upper, xmin = lower)) +
  geom_point(aes(y = group, x = .fitted)) +
  xlim(2,3)+
  xlab("Predicted Value of Political Interests") +
  ylab("")
```
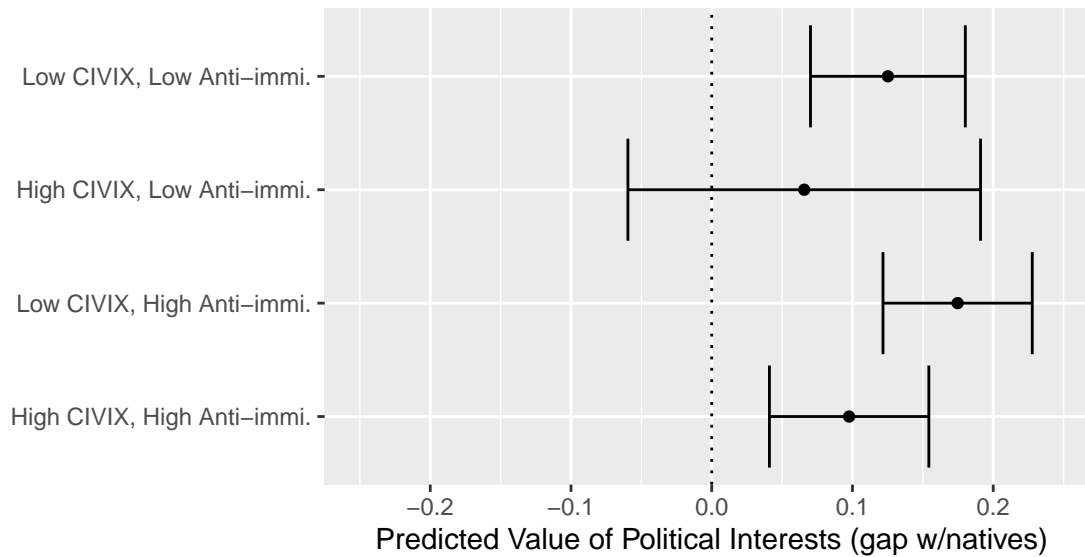


```
ggsave("pred.polintr.1.jpeg")

## Saving 6 x 3 in image
```

```
## Saving 6 x 3 in image
```

Politics as Complicated

```r
summary(ess_tenyr$polcmpl) # absolute level
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   1.000   2.000   3.000   3.217   4.000   5.000    1278
```

```r
summary(ess_tenyr$polcmpl.gap) # gap w/natives
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -2.5385 -0.8931 -0.0183  0.1163  0.9817  2.1278    1278
```

```
##
## Call:
## lm(formula = polcmpl ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
## <Labelled double>: Politics too complicated to understand
##     Min      1Q  Median      3Q     Max
## -2.99501 -0.77775 -0.07347  0.90112  2.54846
##
## Labels:
##  value        label
##      1        Never
##      2       Seldom
##      3 Occasionally
##      4    Regularly
##      5   Frequently
##  NA(b)       Refusal
##  NA(c)   Don't know
##  NA(d)    No answer
##
## Coefficients:
```

```
##                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)     4.167697   0.389014  10.713  < 2e-16 ***
## agea           -0.004589   0.001975  -2.324 0.020220 *
## ethnic          0.203903   0.051271   3.977 7.17e-05 ***
## female          0.353034   0.044304   7.968 2.36e-15 ***
## edu            -0.187768   0.015429 -12.170  < 2e-16 ***
## eubirth        -0.224765   0.055492  -4.050 5.26e-05 ***
## citizen        -0.017574   0.052867  -0.332 0.739598
## civix.d        -2.682822   0.710817  -3.774 0.000164 ***
## anti1          -0.154095   0.177924  -0.866 0.386530
## civix.d:anti1   1.181250   0.317100   3.725 0.000199 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.14 on 2673 degrees of freedom
##   (2429 observations deleted due to missingness)
## Multiple R-squared:  0.1093, Adjusted R-squared:  0.1063
## F-statistic: 36.46 on 9 and 2673 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = polcmpl.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.11924 -0.79431 -0.05813  0.89975  2.61607
##
## Coefficients:
##                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.148140   0.390454   2.941  0.00330 **
## agea           -0.004892   0.001982  -2.468  0.01364 *
## ethnic          0.210370   0.051461   4.088 4.48e-05 ***
## female          0.343061   0.044468   7.715 1.70e-14 ***
## edu            -0.180616   0.015486 -11.663  < 2e-16 ***
## eubirth        -0.174615   0.055697  -3.135  0.00174 **
## citizen        -0.026910   0.053063  -0.507  0.61211
## civix.d        -1.277479   0.713450  -1.791  0.07348 .
## anti1          -0.199799   0.178583  -1.119  0.26332
## civix.d:anti1   0.531964   0.318274   1.671  0.09476 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.144 on 2673 degrees of freedom
##   (2429 observations deleted due to missingness)
## Multiple R-squared:  0.09322,   Adjusted R-squared:  0.09017
## F-statistic: 30.53 on 9 and 2673 DF,  p-value: < 2.2e-16
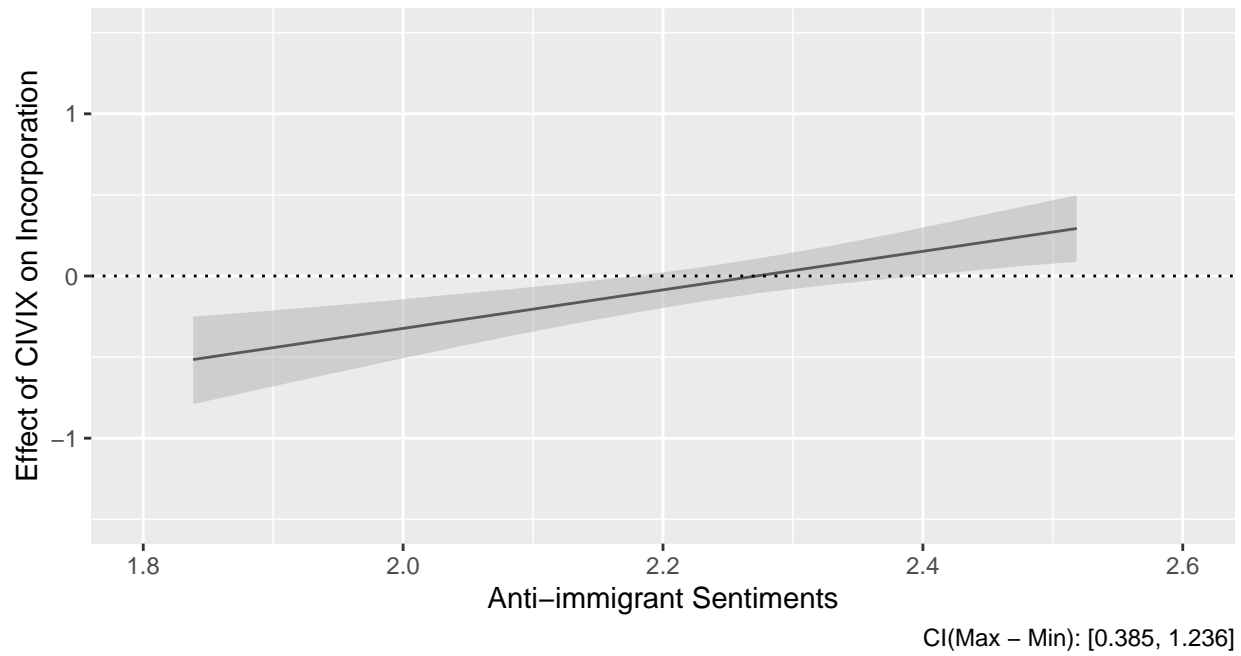```

CI(Max − Min): [0.385, 1.236]

Figure 3: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Abs. Level)
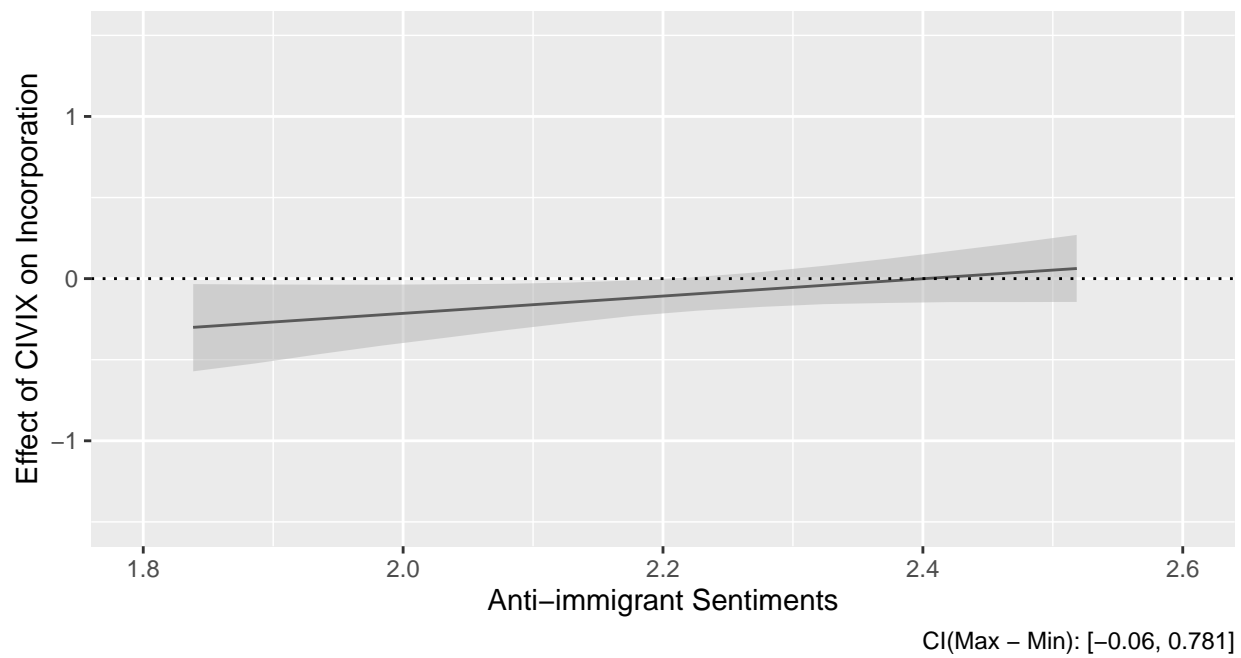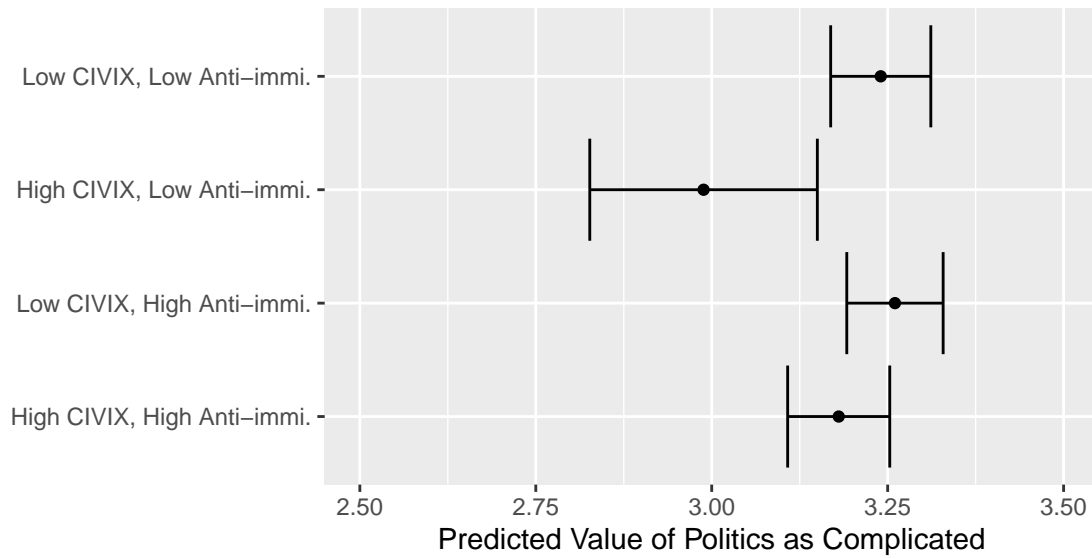


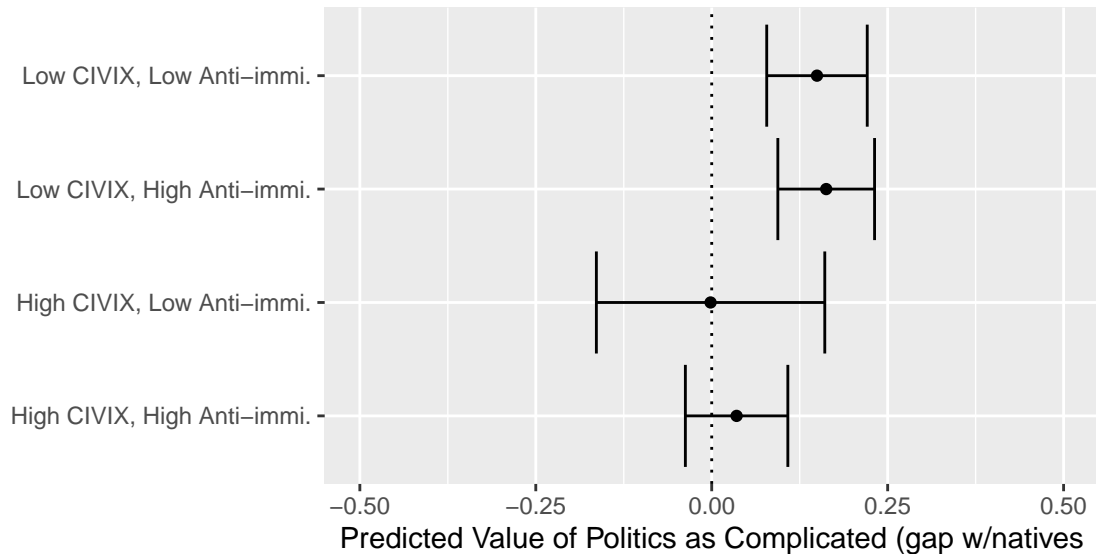CI(Max − Min): [−0.06, 0.781]

Figure 4: Effect of CIVIX conditional on Anti-immigrant Sentiments: Politics as Complicated (Gap w/Natives)

## Saving 6 x 3 in image



## Saving 6 x 3 in image

## Difficulty in making political decisions

```
summary(ess_tenyr$poldcs) # absolute level
```

```
##     Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##    1.000   3.000   3.000   3.258   4.000   5.000    1291
```

```
summary(ess_tenyr$poldcs.gap)
```

```
##     Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -2.5302 -0.5302  0.0595  0.1824  0.9531  2.3333    1291
```
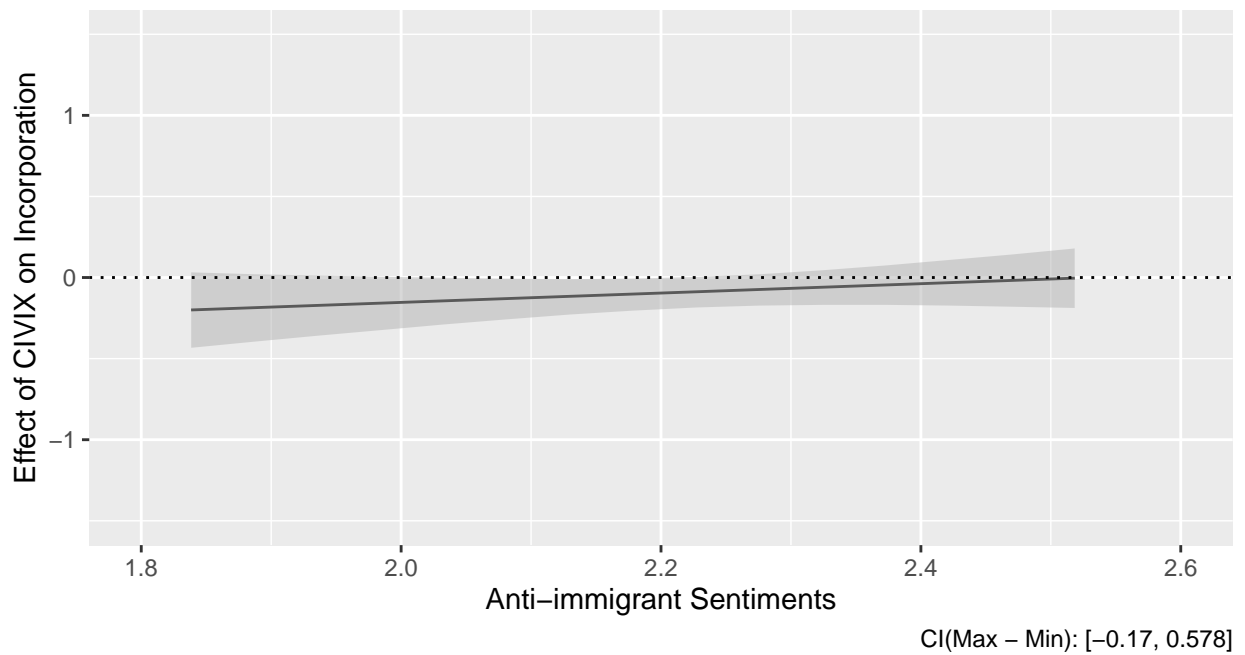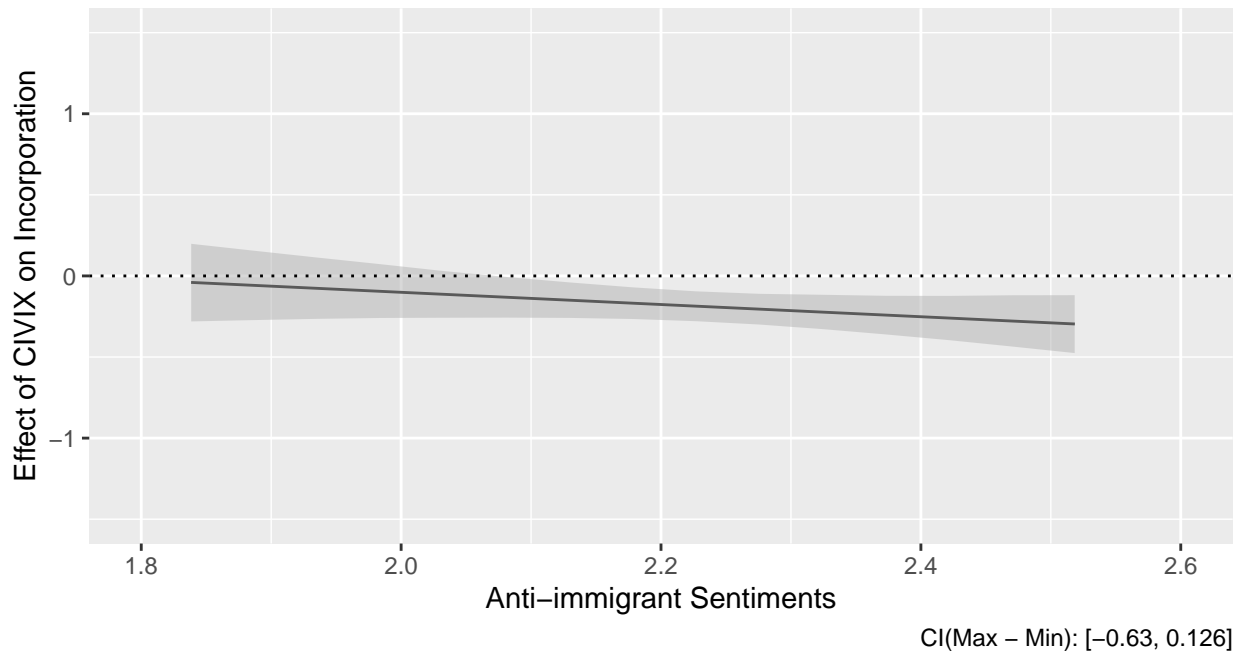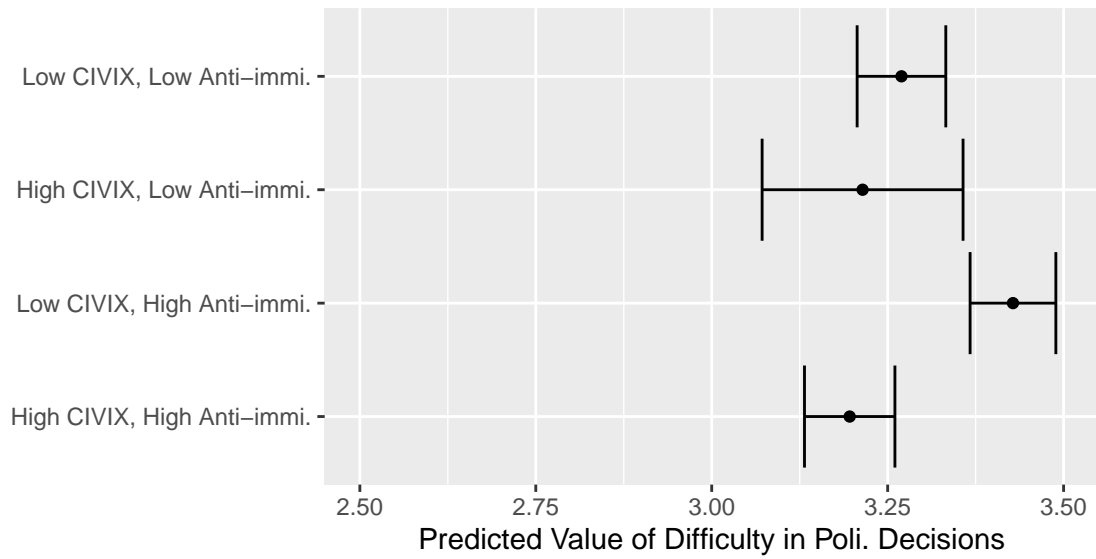
```
##
## Call:
```

```
## lm(formula = poldcs ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min      1Q   Median       3Q      Max
## -3.04326 -0.70539  0.03178  0.73437  2.48159
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.106346   0.345708   8.985  < 2e-16 ***
## agea          -0.005143   0.001747  -2.944  0.00327 **
## ethnic         0.098463   0.045295   2.174  0.02981 *
## female         0.268092   0.039282   6.825 1.09e-11 ***
## edu           -0.186884   0.013707 -13.634  < 2e-16 ***
## eubirth       -0.281419   0.049344  -5.703 1.31e-08 ***
## citizen       -0.075401   0.046949  -1.606  0.10839
## civix.d        0.653695   0.628026   1.041  0.29803
## anti1          0.446678   0.158276   2.822  0.00481 **
## civix.d:anti1 -0.377149   0.280235  -1.346  0.17847
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.008 on 2660 degrees of freedom
##   (2442 observations deleted due to missingness)
## Multiple R-squared:  0.1167, Adjusted R-squared:  0.1137
## F-statistic: 39.05 on 9 and 2660 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = poldcs.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.1938 -0.6838  0.0294  0.7201  2.4805
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.812312   0.347482   2.338  0.01948 *
## agea          -0.004778   0.001756  -2.721  0.00655 **
## ethnic         0.110954   0.045528   2.437  0.01487 *
## female         0.263074   0.039483   6.663 3.25e-11 ***
## edu           -0.177740   0.013777 -12.901  < 2e-16 ***
## eubirth       -0.267064   0.049597  -5.385 7.89e-08 ***
## citizen       -0.085354   0.047190  -1.809  0.07061 .
## civix.d       -0.729072   0.631249  -1.155  0.24821
## anti1          0.035988   0.159088   0.226  0.82105
## civix.d:anti1  0.288092   0.281673   1.023  0.30650
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.013 on 2660 degrees of freedom
##   (2442 observations deleted due to missingness)
## Multiple R-squared:  0.1068, Adjusted R-squared:  0.1038
```
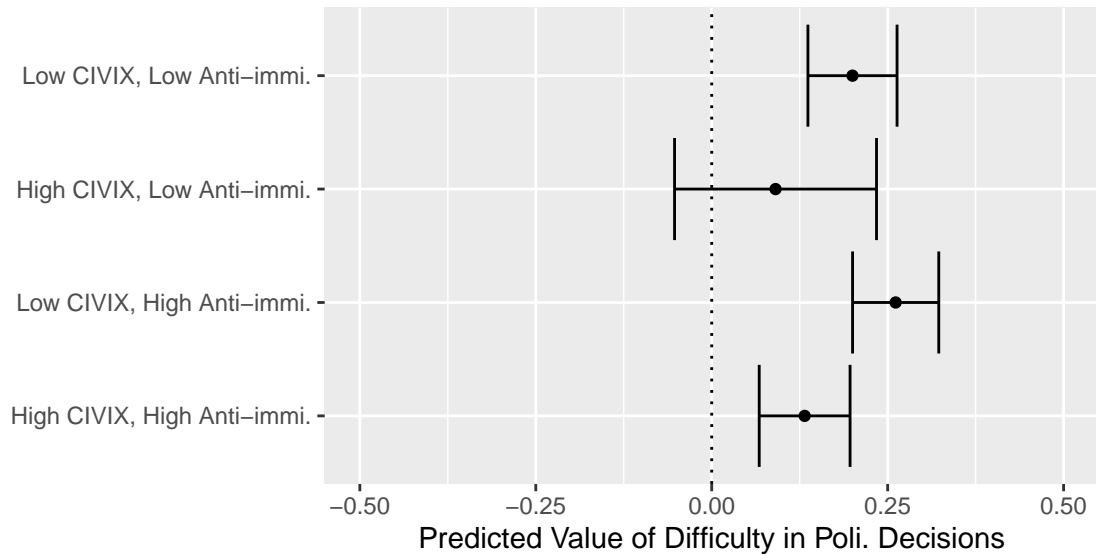
F-statistic: 35.36 on 9 and 2660 DF, p-value: < 2.2e-16

CI(Max − Min): [−0.63, 0.126]

CI(Max − Min): [−0.17, 0.578]

```
## Saving 6 x 3 in image
```



```
## Saving 6 x 3 in image
```

Employment status

```
summary(ess_tenyr$employ)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  1.0000  1.0000  0.9098  1.0000  1.0000
```

```
summary(ess_tenyr$employ.gap)
```

```
##     Min.  1st Qu.   Median     Mean 3rd Qu.     Max.
## -0.98621  0.03096  0.05172 -0.02994  0.08309  0.10860
```
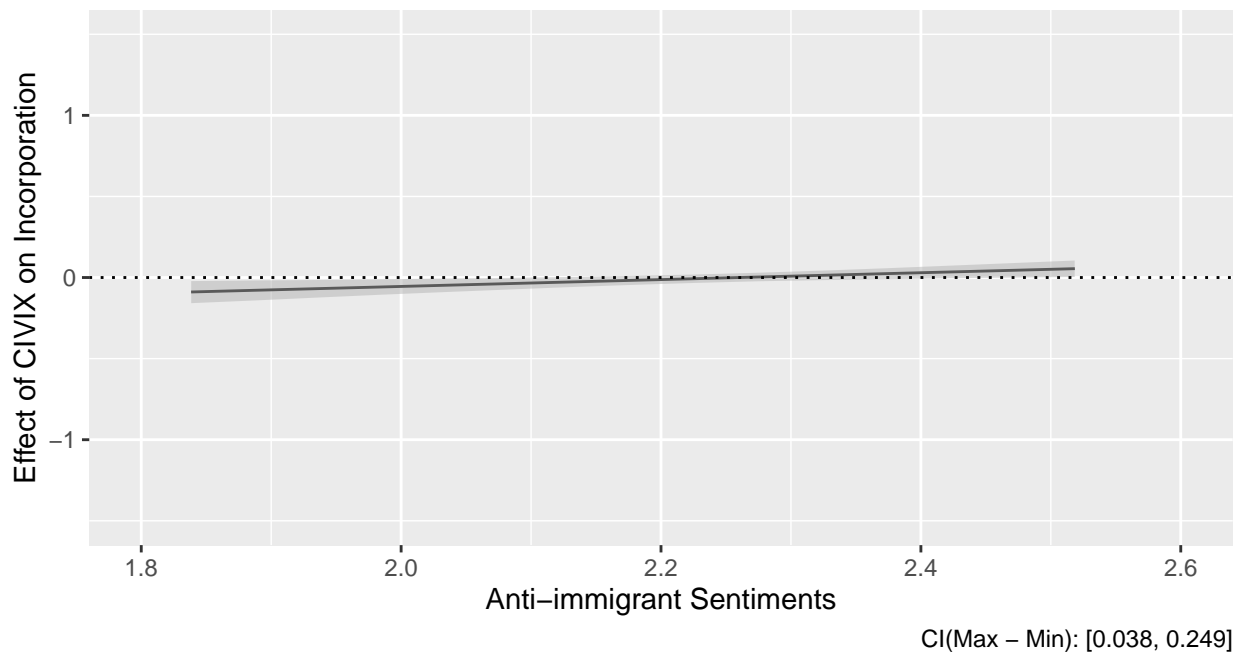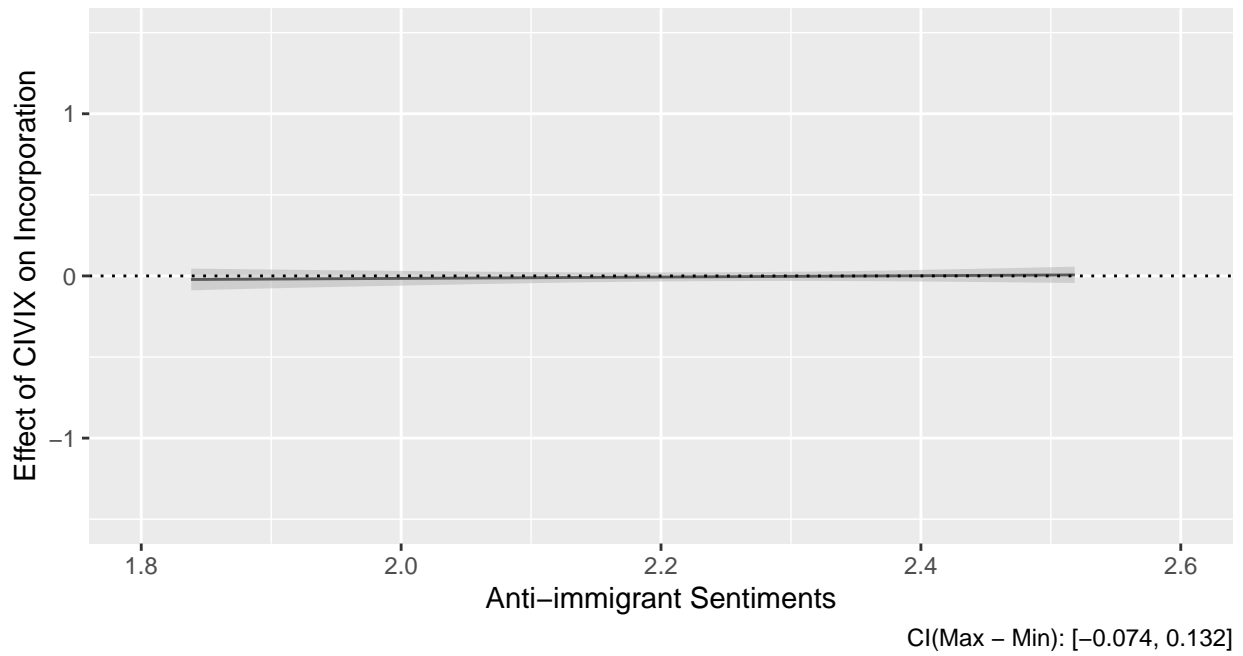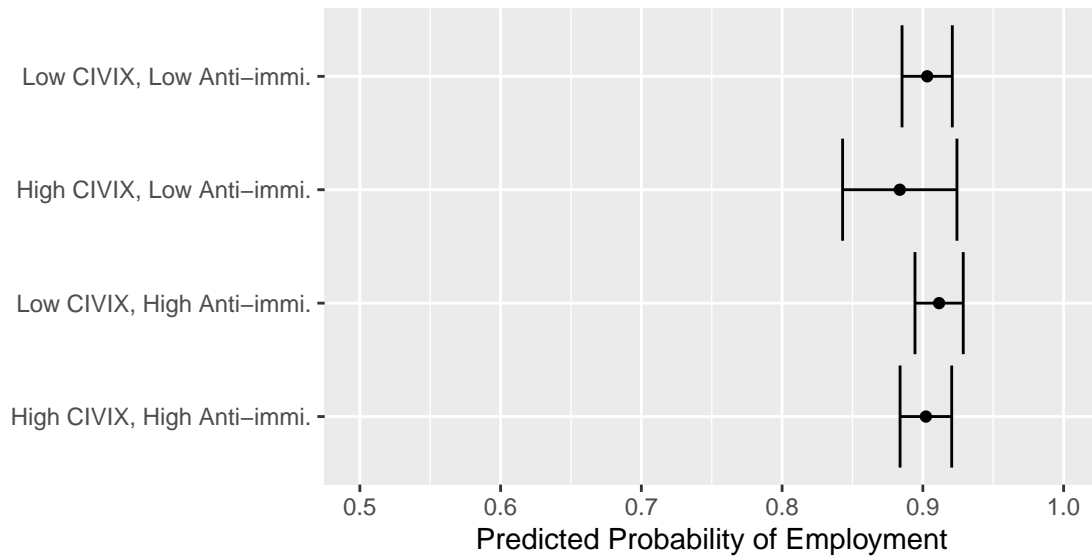
```
##
## Call:
```

```
## lm(formula = employ ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min      1Q   Median      3Q      Max
## -0.94448  0.07417  0.09577  0.10482  0.13199
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.8358217  0.0975451   8.569   <2e-16 ***
## agea          0.0002027  0.0004960   0.409   0.6828
## ethnic        0.0017392  0.0127904   0.136   0.8918
## female        0.0083786  0.0111380   0.752   0.4520
## edu           0.0018815  0.0038104   0.494   0.6215
## eubirth       0.0283556  0.0140560   2.017   0.0438 *
## citizen      -0.0079295  0.0133650  -0.593   0.5530
## civix.d      -0.0985625  0.1779378  -0.554   0.5797
## anti1         0.0220244  0.0446840   0.493   0.6221
## civix.d:anti1 0.0417044  0.0793456   0.526   0.5992
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2919 on 2777 degrees of freedom
##   (2325 observations deleted due to missingness)
## Multiple R-squared:  0.003032,   Adjusted R-squared:  -0.0001993
## F-statistic: 0.9383 on 9 and 2777 DF,  p-value: 0.4902

##
## Call:
## lm(formula = employ.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min      1Q   Median      3Q      Max
## -0.98430  0.06692  0.09162  0.10907  0.15571
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.1712604  0.0974197   1.758   0.07886 .
## agea          0.0002882  0.0004954   0.582   0.56076
## ethnic        0.0010113  0.0127740   0.079   0.93690
## female        0.0090933  0.0111237   0.817   0.41373
## edu           0.0013797  0.0038055   0.363   0.71697
## eubirth       0.0186137  0.0140379   1.326   0.18496
## citizen      -0.0092840  0.0133478  -0.696   0.48677
## civix.d      -0.4779313  0.1777091  -2.689   0.00720 **
## anti1        -0.1019547  0.0446265  -2.285   0.02241 *
## civix.d:anti1 0.2113625  0.0792435   2.667   0.00769 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2915 on 2777 degrees of freedom
##   (2325 observations deleted due to missingness)
## Multiple R-squared:  0.004409,   Adjusted R-squared:  0.001182
```
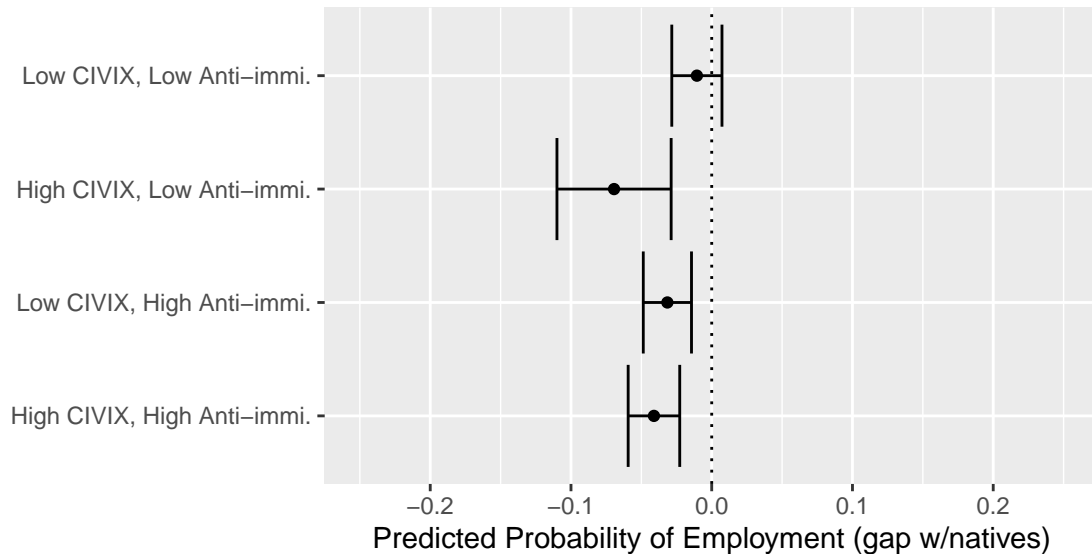
13

F-statistic: 1.366 on 9 and 2777 DF, p-value: 0.1977

CI(Max − Min): [−0.074, 0.132]

CI(Max − Min): [0.038, 0.249]

```
## Saving 6 x 3 in image
```



```
## Saving 6 x 3 in image
```

People being fair

```
summary(ess_tenyr$pplfair)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   0.000   4.000   5.000   5.471   7.000  10.000      85
```

```
summary(ess_tenyr$pplfair.gap)
```

```
##     Min.  1st Qu.  Median     Mean 3rd Qu.     Max.     NA's
## -6.65164 -1.39759 -0.18475  0.01949 1.60241  5.52512       85
```
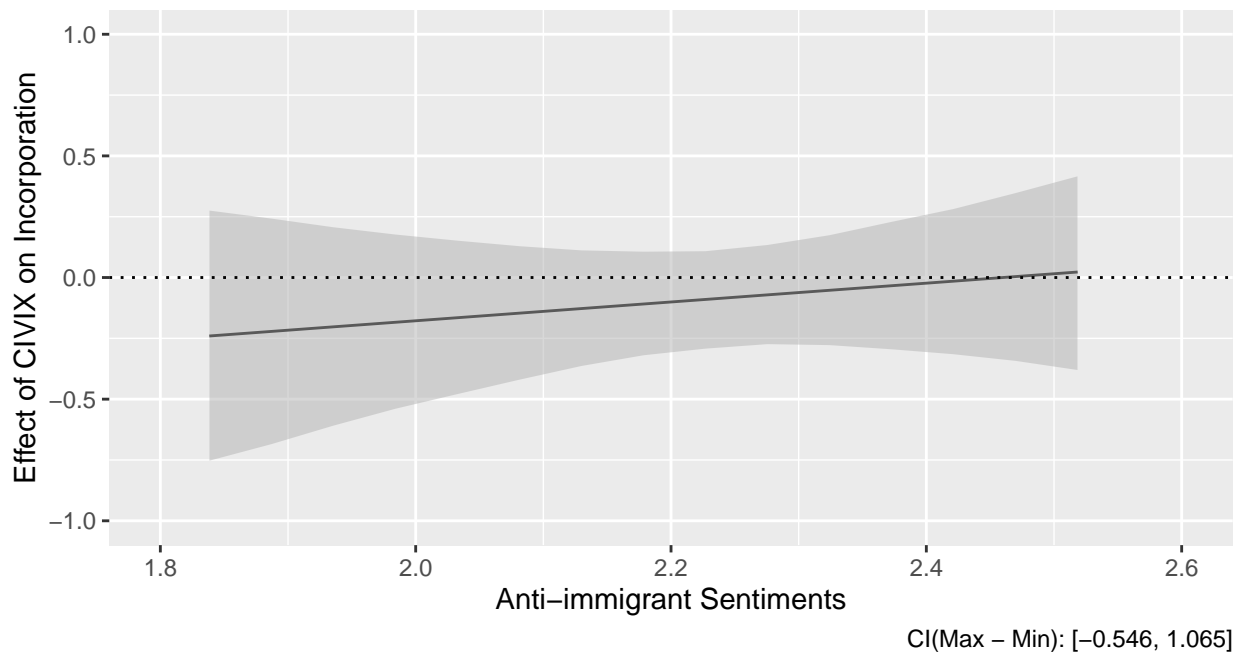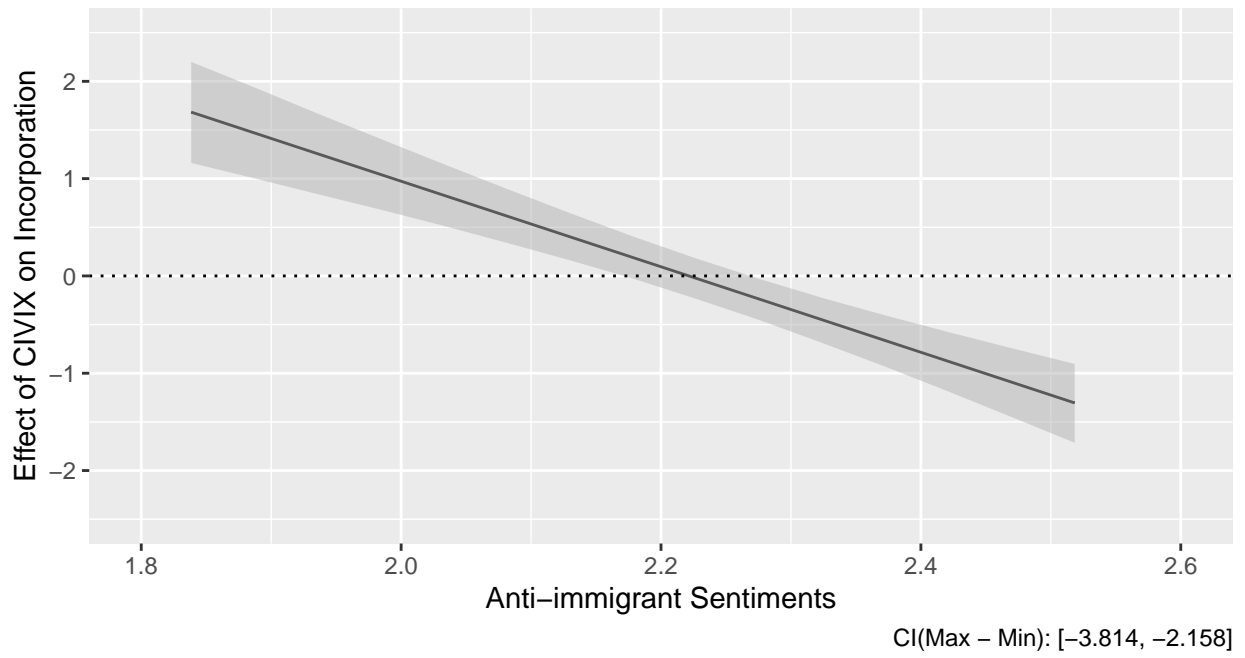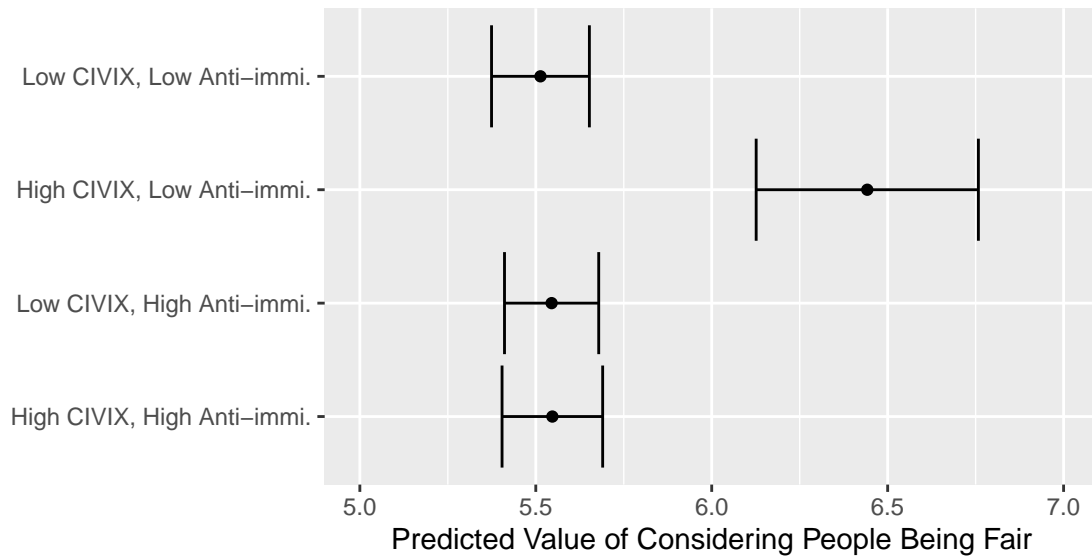
```
##
## Call:
```

```
## lm(formula = pplfair ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min     1Q  Median     3Q     Max
## -6.1585 -1.4082 -0.0629  1.6316  5.3124
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)    4.032790   0.761091   5.299 1.26e-07 ***
## agea           0.007391   0.003874   1.908   0.0565 .
## ethnic        -0.149090   0.099700  -1.495   0.1349
## female        -0.005742   0.086730  -0.066   0.9472
## edu            0.159696   0.029707   5.376 8.27e-08 ***
## eubirth        0.080449   0.109509   0.735   0.4626
## citizen       -0.011583   0.103984  -0.111   0.9113
## civix.d        9.729616   1.381159   7.045 2.35e-12 ***
## anti1          0.353935   0.348372   1.016   0.3097
## civix.d:anti1 -4.379808   0.615903  -7.111 1.46e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.256 on 2735 degrees of freedom
##   (2367 observations deleted due to missingness)
## Multiple R-squared:  0.04445,    Adjusted R-squared:  0.04131
## F-statistic: 14.14 on 9 and 2735 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = pplfair.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min     1Q  Median     3Q     Max
## -7.2377 -1.3558 -0.0664  1.5870  5.3493
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -2.134677   0.750838  -2.843   0.0045 **
## agea           0.006851   0.003822   1.792   0.0732 .
## ethnic        -0.204047   0.098357  -2.075   0.0381 *
## female        -0.032251   0.085562  -0.377   0.7063
## edu            0.138481   0.029307   4.725 2.41e-06 ***
## eubirth       -0.004984   0.108034  -0.046   0.9632
## citizen       -0.016408   0.102584  -0.160   0.8729
## civix.d       -0.945454   1.362555  -0.694   0.4878
## anti1          0.741023   0.343679   2.156   0.0312 *
## civix.d:anti1  0.383104   0.607607   0.631   0.5284
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.226 on 2735 degrees of freedom
##   (2367 observations deleted due to missingness)
## Multiple R-squared:  0.01532,    Adjusted R-squared:  0.01208
```
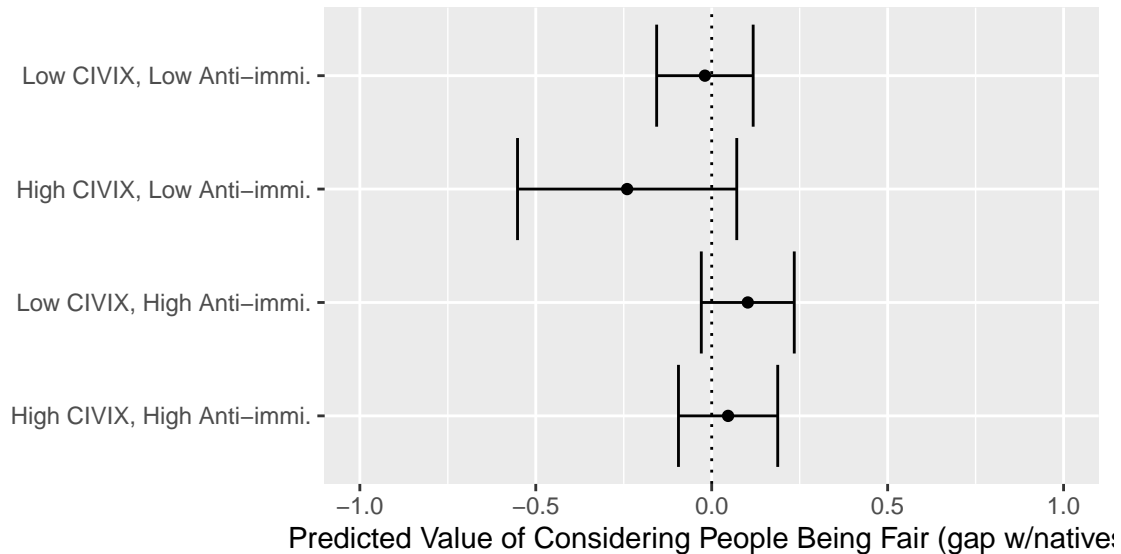
F-statistic: 4.728 on 9 and 2735 DF, p-value: 2.928e-06

CI(Max − Min): [−3.814, −2.158]

CI(Max − Min): [−0.546, 1.065]

Predicted Value of Considering People Being Fair

```
## Saving 6 x 3 in image
```


Predicted Value of Considering People Being Fair (gap w/natives

```
## Saving 6 x 3 in image
```

General Trust

```r
summary(ess_tenyr$ppltrst) # 0 as can't be too careful, 10 as most people can be trusted
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   0.000   4.000   5.000   5.142   7.000  10.000      39
```

```r
summary(ess_tenyr$ppltrst.gap)
```

```
##      Min.  1st Qu.   Median     Mean  3rd Qu.     Max.     NA's
## -6.51471 -1.35000  0.01163  0.11122  1.75828  6.28016       39
```
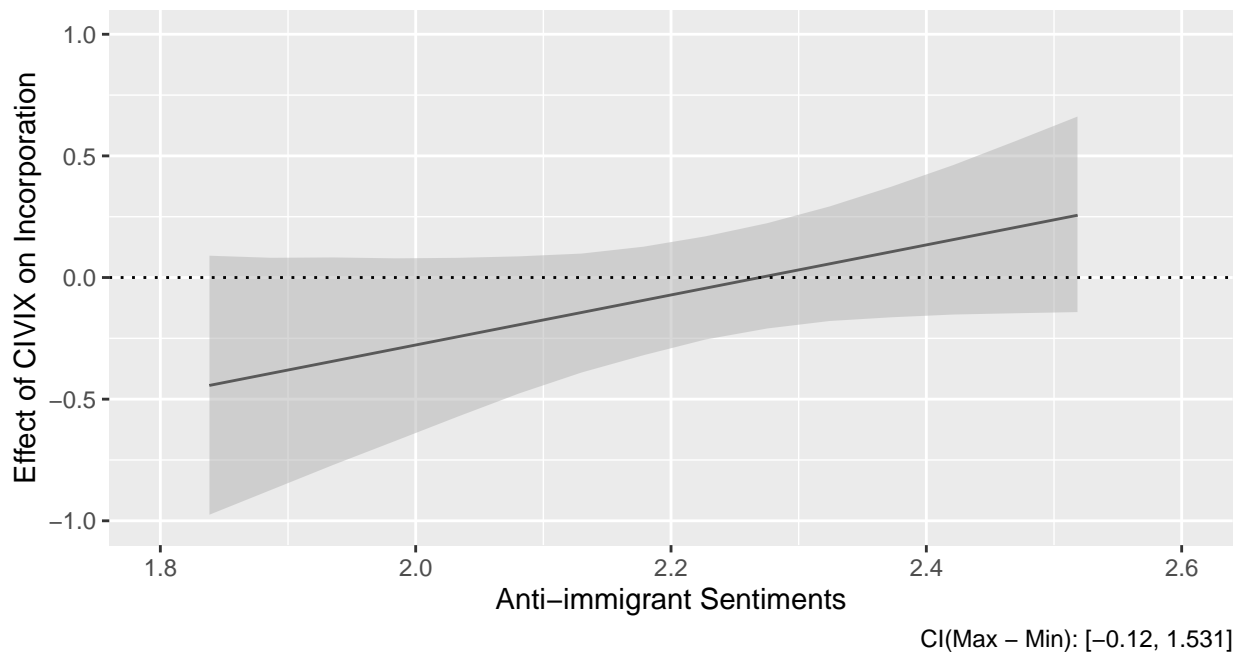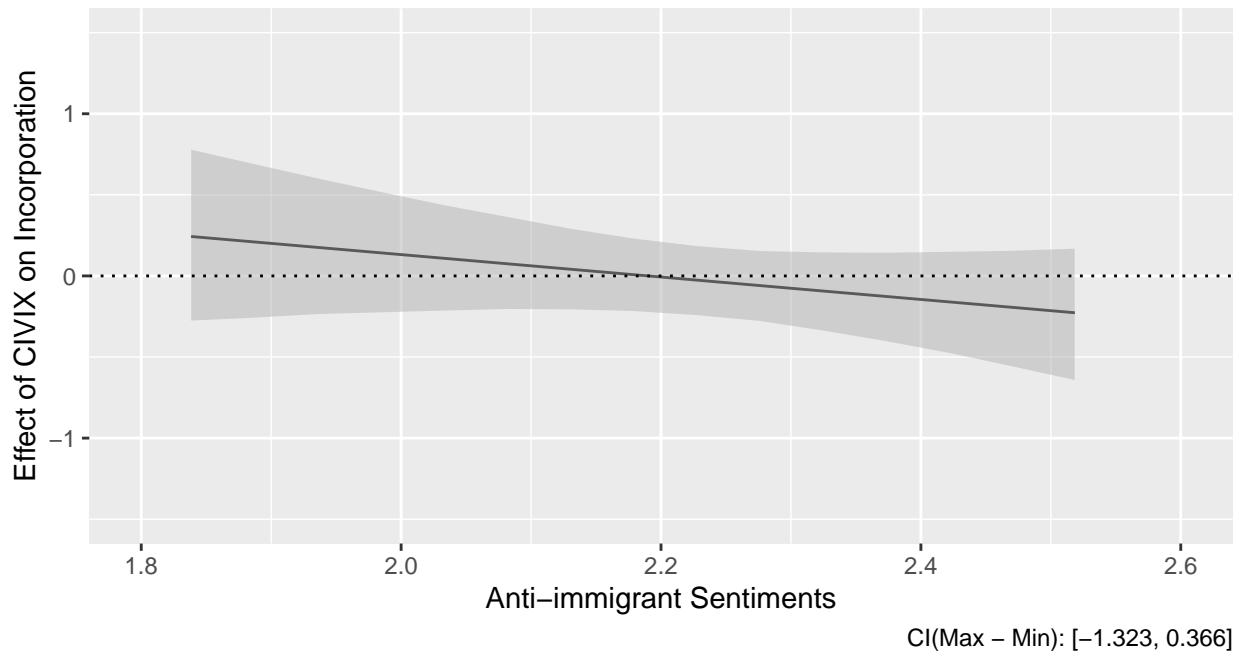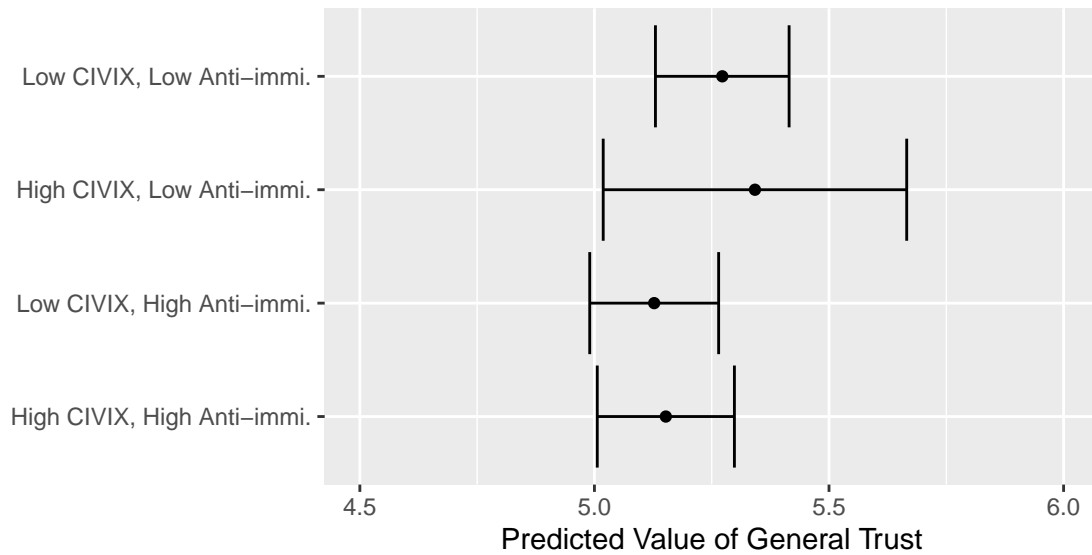
```
##
## Call:
```

```
## lm(formula = ppltrst ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -6.1770 -1.5349  0.0699  1.6883  5.6742
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)    4.918200   0.781069   6.297 3.52e-10 ***
## agea           0.012889   0.003958   3.257  0.00114 **
## ethnic        -0.034076   0.101948  -0.334  0.73822
## female        -0.237590   0.088837  -2.674  0.00753 **
## edu            0.196995   0.030433   6.473 1.13e-10 ***
## eubirth        0.216591   0.112345   1.928  0.05397 .
## citizen       -0.075441   0.106533  -0.708  0.47891
## civix.d        1.504549   1.419181   1.060  0.28917
## anti1         -0.332986   0.357864  -0.930  0.35220
## civix.d:anti1 -0.686414   0.633006  -1.084  0.27829
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.321 on 2758 degrees of freedom
##   (2344 observations deleted due to missingness)
## Multiple R-squared:  0.03145,    Adjusted R-squared:  0.02829
## F-statistic: 9.952 on 9 and 2758 DF,  p-value: 3.645e-15

##
## Call:
## lm(formula = ppltrst.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -7.3910 -1.5434  0.0775  1.6543  6.1931
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -2.541268   0.774313  -3.282  0.00104 **
## agea           0.011996   0.003923   3.057  0.00225 **
## ethnic        -0.127427   0.101067  -1.261  0.20748
## female        -0.257744   0.088069  -2.927  0.00345 **
## edu            0.168242   0.030170   5.576 2.69e-08 ***
## eubirth        0.061100   0.111373   0.549  0.58332
## citizen       -0.033912   0.105611  -0.321  0.74816
## civix.d       -2.317424   1.406907  -1.647  0.09964 .
## anti1          0.884118   0.354769   2.492  0.01276 *
## civix.d:anti1  1.020324   0.627531   1.626  0.10408
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.301 on 2758 degrees of freedom
##   (2344 observations deleted due to missingness)
## Multiple R-squared:  0.02718,    Adjusted R-squared:  0.02401
```
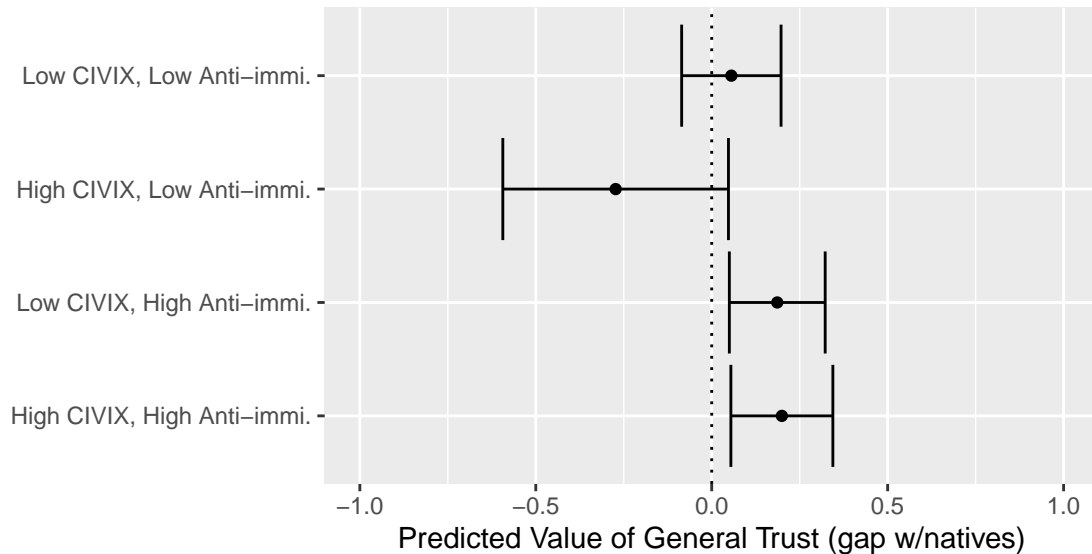
F-statistic: 8.563 on 9 and 2758 DF,   p-value: 9.562e-13

CI(Max − Min): [−1.323, 0.366]

CI(Max − Min): [−0.12, 1.531]

Predicted Value of General Trust

```
## Saving 6 x 3 in image
```


Predicted Value of General Trust (gap w/natives)

```
## Saving 6 x 3 in image
```

Income level

```
summary(ess_tenyr$hinctnt)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##  0.8333  3.0000  5.0000  4.9889  7.0000 10.0000    1407
```

```
summary(ess_tenyr$hinctnt.gap)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## -5.8511 -2.0102 -0.4969 -0.3709  1.2333  6.0104    1407
```
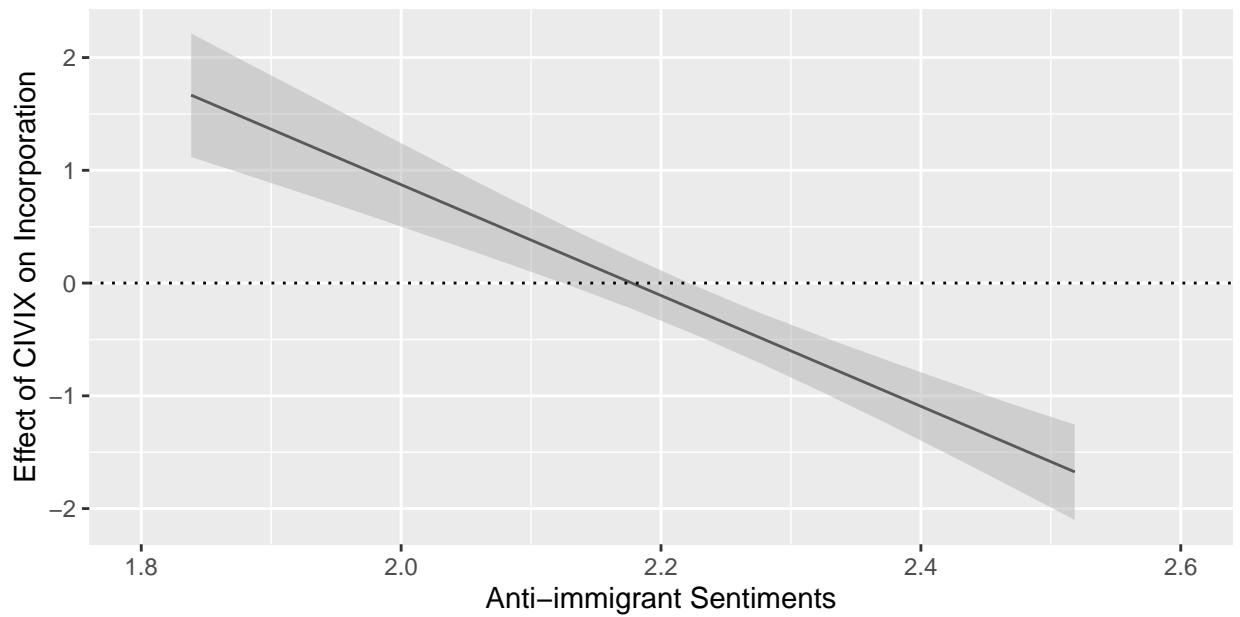
```
##
## Call:
```
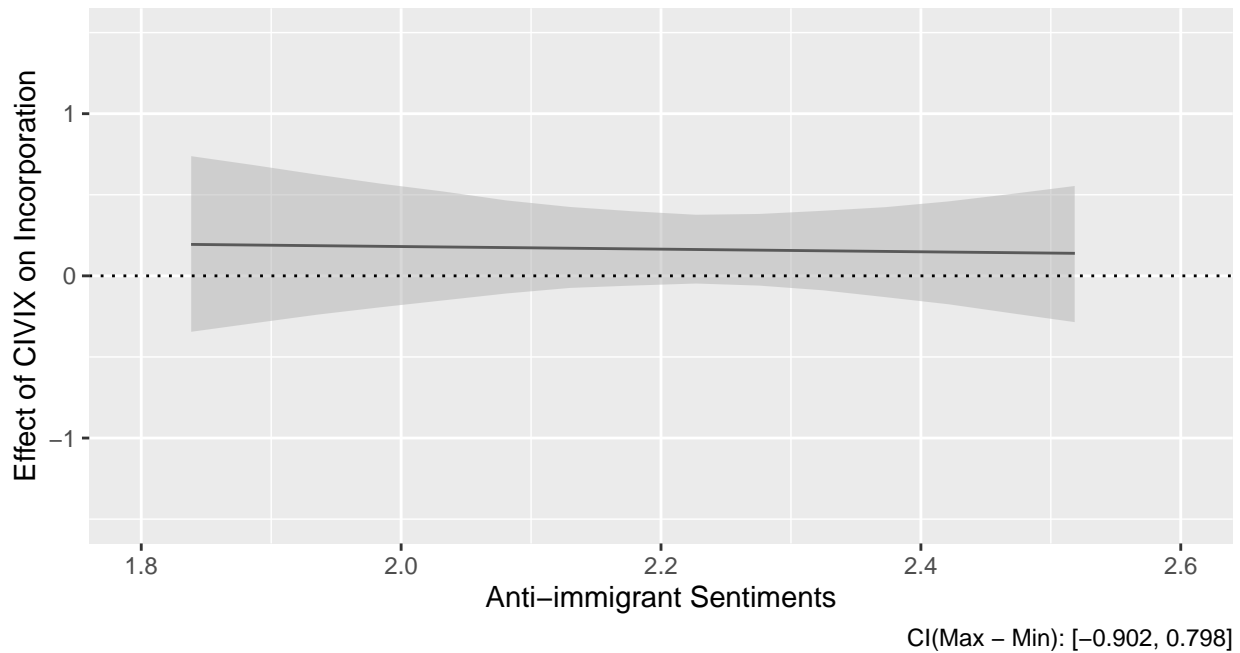
```
## lm(formula = hinctnt ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
## <Labelled double>: Household's total net income, all sources
##     Min      1Q  Median      3Q     Max
## -5.3703 -1.3666 -0.1447  1.3382  5.9948
##
## Labels:
##  value       label
##      1           J
##      2           R
##      3           C
##      4           M
##      5           F
##      6           S
##      7           K
##      8           P
##      9           D
##     10           H
##     11           U
##     12           N
##  NA(b)     Refusal
##  NA(c) Don't know
##  NA(d)  No answer
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -0.130298   0.799734  -0.163  0.87059
## agea           0.008400   0.004209   1.996  0.04612 *
## ethnic        -0.281353   0.104137  -2.702  0.00696 **
## female        -0.170677   0.091443  -1.866  0.06212 .
## edu            0.377324   0.031365  12.030  < 2e-16 ***
## eubirth        0.813813   0.115681   7.035 2.72e-12 ***
## citizen        0.111267   0.110671   1.005  0.31483
## civix.d       10.657007   1.457375   7.312 3.77e-13 ***
## anti1          1.745880   0.367064   4.756 2.11e-06 ***
## civix.d:anti1 -4.894436   0.650890  -7.520 8.24e-14 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.039 on 2004 degrees of freedom
##   (3098 observations deleted due to missingness)
## Multiple R-squared:  0.1617, Adjusted R-squared:  0.1579
## F-statistic: 42.95 on 9 and 2004 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = hinctnt.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -5.303 -1.287 -0.157  1.294  6.345
```

```
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -1.971847   0.783795  -2.516  0.01195 *
## agea           0.008627   0.004125   2.091  0.03664 *
## ethnic        -0.329409   0.102062  -3.228  0.00127 **
## female        -0.176812   0.089621  -1.973  0.04865 *
## edu            0.366884   0.030740  11.935  < 2e-16 ***
## eubirth        0.609186   0.113375   5.373 8.64e-08 ***
## citizen        0.149699   0.108466   1.380  0.16769
## civix.d        0.343255   1.428330   0.240  0.81011
## anti1          0.051065   0.359749   0.142  0.88714
## civix.d:anti1 -0.080838   0.637918  -0.127  0.89917
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.998 on 2004 degrees of freedom
##   (3098 observations deleted due to missingness)
## Multiple R-squared:  0.1081, Adjusted R-squared:  0.1041
## F-statistic: 26.98 on 9 and 2004 DF,  p-value: < 2.2e-16
```


CI(Max − Min): [−4.201, −2.49]

CI(Max − Min): [−0.902, 0.798]

Subjective Financial Status

```
summary(ess_tenyr$hincfel)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   1.000   2.000   2.000   2.202   3.000   4.000     120
```

```
summary(ess_tenyr$hincfel.gap)
```

```
##      Min.  1st Qu.   Median     Mean  3rd Qu.     Max.     NA's
## -2.34211 -0.65651  0.07872  0.14518  0.90367  2.43568      120
```

```
##
## Call:
## lm(formula = hincfel ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.04750 -0.57527 -0.08774  0.56305  2.52745
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.352990   0.276028   8.524  < 2e-16 ***
## agea          0.002580   0.001417   1.821   0.0688 .
## ethnic        0.226028   0.036411   6.208 6.20e-10 ***
## female        0.013362   0.031646   0.422   0.6729
## edu          -0.139462   0.010846 -12.859  < 2e-16 ***
## eubirth      -0.380721   0.039956  -9.528  < 2e-16 ***
## citizen       0.005188   0.038147   0.136   0.8918
## civix.d      -3.949437   0.501660  -7.873 4.98e-15 ***
## anti1         0.084767   0.126409   0.671   0.5025
## civix.d:anti1 1.752596   0.223785   7.832 6.86e-15 ***
```
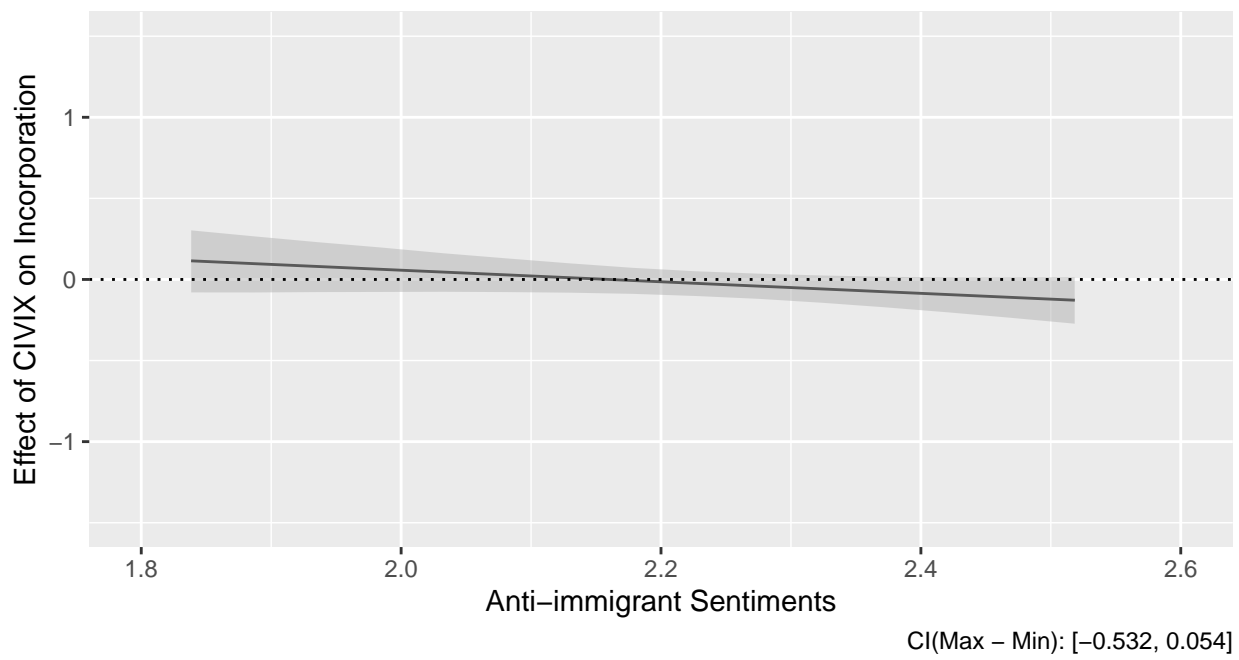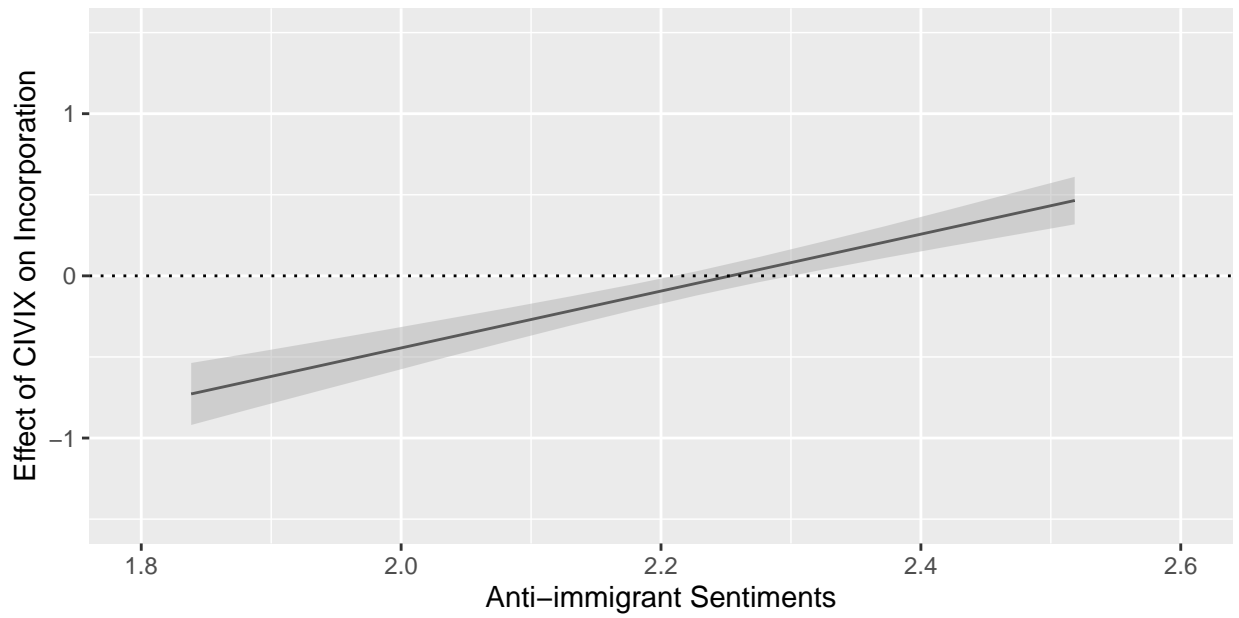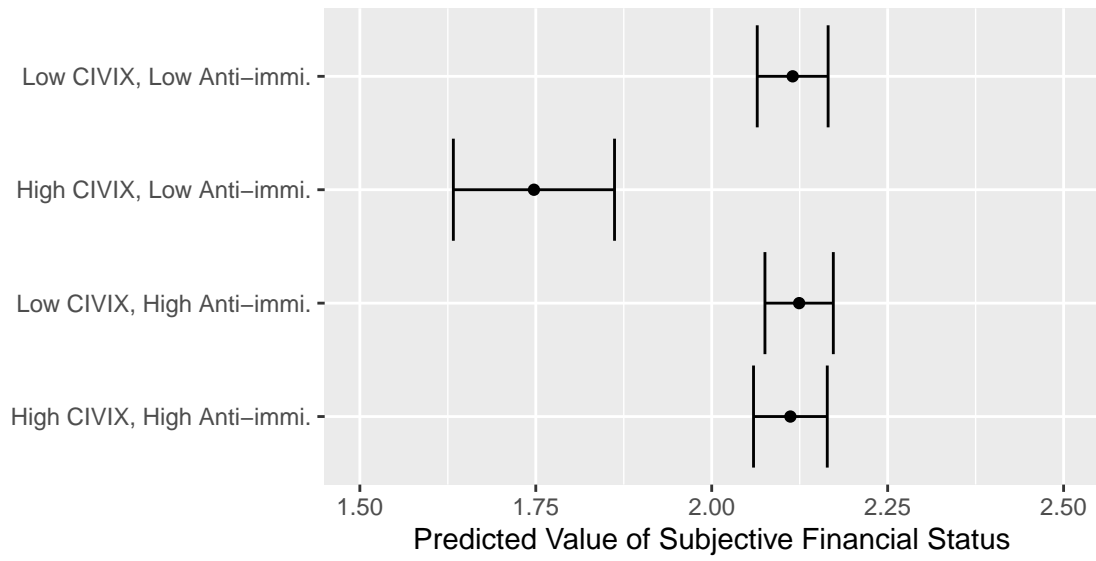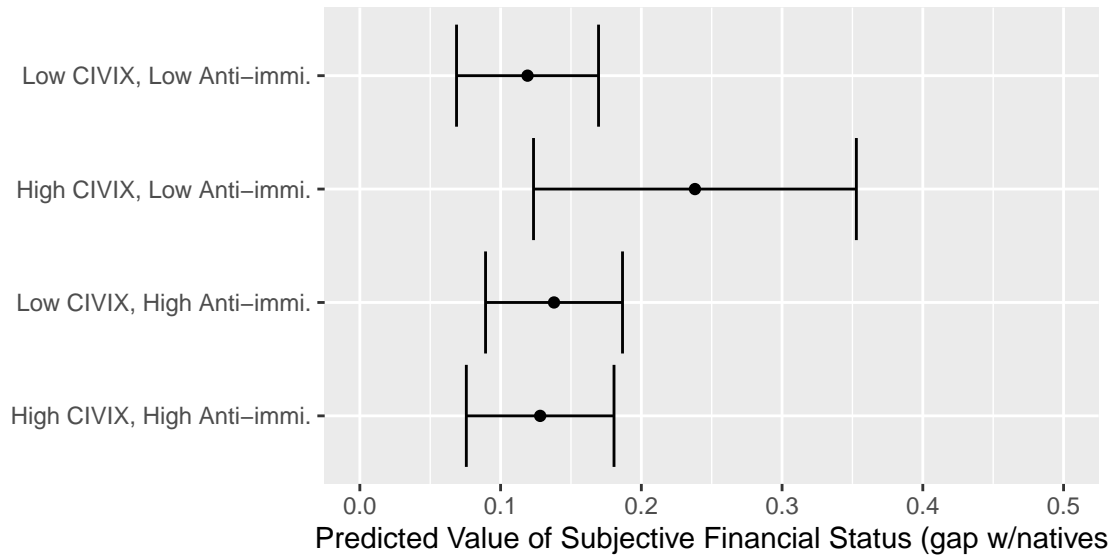
24

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8186 on 2703 degrees of freedom
##   (2399 observations deleted due to missingness)
## Multiple R-squared:  0.1735, Adjusted R-squared:  0.1707
## F-statistic: 63.04 on 9 and 2703 DF,  p-value: < 2.2e-16

##
## Call:
## lm(formula = hincfel.gap ~ agea + ethnic + female + edu + eubirth +
##     citizen + civix.d * anti1, data = ess_tenyr)
##
## Residuals:
##      Min      1Q  Median      3Q     Max
## -2.09689 -0.58889 -0.06794  0.50447  2.52671
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)     0.314506   0.276421   1.138   0.2553
## agea            0.002403   0.001419   1.693   0.0905 .
## ethnic          0.249169   0.036462   6.834 1.02e-11 ***
## female          0.010613   0.031691   0.335   0.7377
## edu            -0.129147   0.010861 -11.891  < 2e-16 ***
## eubirth        -0.263569   0.040013  -6.587 5.37e-11 ***
## citizen        -0.026651   0.038201  -0.698   0.4855
## civix.d         0.772592   0.502374   1.538   0.1242
## anti1           0.078630   0.126589   0.621   0.5346
## civix.d:anti1  -0.357570   0.224103  -1.596   0.1107
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8198 on 2703 degrees of freedom
##   (2399 observations deleted due to missingness)
## Multiple R-squared:  0.1033, Adjusted R-squared:  0.1003
## F-statistic: 34.61 on 9 and 2703 DF,  p-value: < 2.2e-16
```

CI(Max − Min): [0.898, 1.498]

CI(Max − Min): [−0.532, 0.054]

Predicted Value of Subjective Financial Status

```
## Saving 6 x 3 in image
```


Predicted Value of Subjective Financial Status (gap w/natives

```
## Saving 6 x 3 in image
```