156project

```
library(haven)
table_A1 <- read_dta("table_A1.dta")</pre>
table 5 <- read dta("table 5.dta")</pre>
aej_maindata <- read_dta("aej_maindata.dta")</pre>
library(AER)
                    # For ivreg
Warning: package 'AER' was built under R version 4.3.3
Loading required package: car
Loading required package: carData
Loading required package: lmtest
Loading required package: zoo
Attaching package: 'zoo'
The following objects are masked from 'package:base':
    as.Date, as.Date.numeric
Loading required package: sandwich
Loading required package: survival
library(sandwich) # For robust standard errors
# Define variables
dependent_vars <- c("lngini_w", "lngini_b", "povrate_w", "povrate_b")</pre>
control_sets <- list(</pre>
  "count1920" = c("lenper", "count1920"),
  "black1920" = c("lenper", "black1920"),
  "ctyliterate1920" = c("lenper", "ctyliterate1920"),
  "ctymanuf_wkrs1920" = c("lenper", "ctymanuf_wkrs1920"),
  "lfp1920" = c("lenper", "lfp1920"),
  "herfscore" = c("lenper", "herfscore")
# Instrumental variable
instrument <- "herf"</pre>
# Store models
```

```
models <- list()
for (dep_var in dependent_vars) {
  for (control_name in names(control_sets)) {
    controls <- control_sets[[control_name]]</pre>
    control_formula <- paste(controls, collapse = " + ")</pre>
    # Define formula
    formula <- as.formula(</pre>
      paste(dep_var, "~ dism1990 +", control_formula, "|", control_formula, "+", instrument)
    model <- ivreg(formula, data = aej_maindata)</pre>
    model_name <- paste(dep_var, control_name, sep = "_")</pre>
    models[[model_name]] <- model</pre>
   print(model)
    summary(models[[model_name]])
  }
}
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept)
              dism1990
                               lenper
                                         count1920
 -7.258e-01 -3.742e-01
                            5.059e+00
                                         1.006e-05
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept) dism1990
                              lenper black1920
    -0.7192
               -0.3643
                              -1.2617
                                          0.8105
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
                                            lenper ctyliterate1920
    (Intercept)
                        dism1990
        -0.5970
                         -0.3122
                                            5.1907
                                                            -0.1514
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
                          dism1990
      (Intercept)
                                                  lenper ctymanuf_wkrs1920
                            -0.4015
                                                  4.5046
          -0.7487
                                                                     0.1256
ivreg(formula = formula, data = aej_maindata)
Coefficients:
```

(Intercept) -0.5908	dism1990 -0.3053	lenper 3.7767	lfp1920 -0.3674	
Call: ivreg(formula =	formula, dat	a = aej_mai	ndata)	
Coefficients: (Intercept) -0.71782	dism1990 -0.41208	lenper 4.46817	herfscore 0.06585	
<pre>Call: ivreg(formula =</pre>	formula, dat	a = aej_mai	ndata)	
Coefficients: (Intercept) -1.333e+00		-	count1920 -5.982e-06	
<pre>Call: ivreg(formula =</pre>	formula, dat	a = aej_mai	ndata)	
Coefficients: (Intercept) -1.3381	dism1990 0.8956	lenper -3.4122	black1920 -0.5564	
<pre>Call: ivreg(formula =</pre>	formula, dat	a = aej_mai	ndata)	
Coefficients:				
(Intercept) -0.4118		11990 0292	lenper ctyl: -10.7723	terate1920 -1.0478
Call: ivreg(formula =	formula, dat	:a = aej_mai	ndata)	
· ·		0-		
Coefficients: (Intercep: -1.322		dism1990 0.90361	lenper -7.64998	ctymanuf_wkrs1920 -0.05353
<pre>Call: ivreg(formula =</pre>	formula, dat	a = aej_mai	ndata)	
Coefficients: (Intercept) -1.4543	dism1990 0.8491	lenper -6.5075	lfp1920 0.3265	
<pre>Call: ivreg(formula =</pre>	formula, dat	a = aej_mai	ndata)	
Coefficients:	diam1000	lonnom	horfacoro	

lenper -5.785

(Intercept) dism1990 -1.356 1.038

herfscore -0.138

```
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept) dism1990 lenper count1920
 2.071e-01 -2.141e-01
                           3.629e-01 4.649e-06
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
                              lenper
(Intercept)
               dism1990
                                       black1920
    0.2066
               -0.1995
                             -0.2513
                                        0.1011
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
    (Intercept)
                     dism1990
                                         lenper ctyliterate1920
       0.39974
                     -0.16313
                                       0.03772
                                                       -0.22167
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
      (Intercept)
                          dism1990
                                               lenper ctymanuf_wkrs1920
         0.20031
                          -0.21340
                                              0.31952
                                                                 0.03309
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept) dism1990
0.24875 -0.18663
                             lenper
                                        lfp1920
                                     -0.11491
                             0.03902
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept)
              dism1990
                              lenper
                                       herfscore
  0.204319
              -0.189355
                            0.692985
                                       -0.005425
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept)
              dism1990
                              lenper
                                     count1920
  1.192e-01 2.812e-01 -4.483e+00 -5.779e-06
ivreg(formula = formula, data = aej_maindata)
```

Coefficients:

```
dism1990
                              lenper black1920
(Intercept)
    0.1084
               0.2956
                              3.7250 -1.0081
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
    (Intercept)
                     dism1990
                                         lenper ctyliterate1920
       0.18896
                      0.26971
                                      -4.97545
                                                       -0.07695
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
      (Intercept)
                           dism1990
                                                lenper ctymanuf_wkrs1920
         0.13523
                           0.30701
                                              -4.00222
                                                                -0.09117
Call:
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept) dism1990
                            lenper
                                          lfp1920
   0.04954
              0.24329 -3.84810
                                       0.19024
ivreg(formula = formula, data = aej_maindata)
Coefficients:
(Intercept) dism1990
                             lenper
                                        herfscore
              0.30379
   0.11448
                            -4.13173
                                         -0.03852
library(AER) # For ivreg
library(sandwich) # For robust standard errors
# Dependent variable: lngini w
model_lngini_w_count1920 <- ivreg(</pre>
 lngini_w ~ dism1990 + lenper + count1920 | lenper + count1920 + herf,
 data = aej_maindata
model_lngini_w_black1920 <- ivreg(</pre>
 lngini_w ~ dism1990 + lenper + black1920 | lenper + black1920 + herf,
 data = aej_maindata
)
model_lngini_w_ctyliterate1920 <- ivreg(</pre>
 lngini_w ~ dism1990 + lenper + ctyliterate1920 | lenper + ctyliterate1920 + herf,
 data = aej_maindata
)
model_lngini_w_ctymanuf_wkrs1920 <- ivreg(</pre>
 lngini_w ~ dism1990 + lenper + ctymanuf_wkrs1920 | lenper + ctymanuf_wkrs1920 + herf,
 data = aej_maindata
model_lngini_w_lfp1920 <- ivreg(</pre>
 lngini_w ~ dism1990 + lenper + lfp1920 | lenper + lfp1920 + herf,
 data = aej_maindata
)
model_lngini_w_herfscore <- ivreg(</pre>
```

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```
lngini_w ~ dism1990 + lenper + herfscore | lenper + herfscore + herf,
  data = aej_maindata
)
# Dependent variable: lngini_b
model_lngini_b_count1920 <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + count1920 | lenper + count1920 + herf,
  data = aej_maindata
model_lngini_b_black1920 <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + black1920 | lenper + black1920 + herf,
  data = aej_maindata
model_lngini_b_ctyliterate1920 <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + ctyliterate1920 | lenper + ctyliterate1920 + herf,
  data = aej_maindata
model_lngini_b_ctymanuf_wkrs1920 <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + ctymanuf_wkrs1920 | lenper + ctymanuf_wkrs1920 + herf,
  data = aej_maindata
model_lngini_b_lfp1920 <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + lfp1920 | lenper + lfp1920 + herf,
  data = aej maindata
model_lngini_b_herfscore <- ivreg(</pre>
  lngini_b ~ dism1990 + lenper + herfscore | lenper + herfscore + herf,
  data = aej_maindata
)
# Dependent variable: povrate_w
model_povrate_w_count1920 <- ivreg(</pre>
 povrate_w ~ dism1990 + lenper + count1920 | lenper + count1920 + herf,
  data = aej_maindata
model_povrate_w_black1920 <- ivreg(</pre>
  povrate_w ~ dism1990 + lenper + black1920 | lenper + black1920 + herf,
  data = aej_maindata
model_povrate_w_ctyliterate1920 <- ivreg(</pre>
 povrate_w ~ dism1990 + lenper + ctyliterate1920 | lenper + ctyliterate1920 + herf,
  data = aej_maindata
model_povrate_w_ctymanuf_wkrs1920 <- ivreg(</pre>
  povrate_w ~ dism1990 + lenper + ctymanuf_wkrs1920 | lenper + ctymanuf_wkrs1920 + herf,
  data = aej_maindata
model_povrate_w_lfp1920 <- ivreg(</pre>
  povrate_w ~ dism1990 + lenper + lfp1920 | lenper + lfp1920 + herf,
  data = aej_maindata
model_povrate_w_herfscore <- ivreg(</pre>
  povrate_w ~ dism1990 + lenper + herfscore | lenper + herfscore + herf,
  data = aej_maindata
# Dependent variable: povrate_b
model povrate b count1920 <- ivreg(</pre>
  povrate_b ~ dism1990 + lenper + count1920 | lenper + count1920 + herf,
```

```
data = aej_maindata
model_povrate_b_black1920 <- ivreg(</pre>
 povrate_b ~ dism1990 + lenper + black1920 | lenper + black1920 + herf,
 data = aej_maindata
model_povrate_b_ctyliterate1920 <- ivreg(</pre>
  povrate_b ~ dism1990 + lenper + ctyliterate1920 | lenper + ctyliterate1920 + herf,
  data = aej_maindata
model_povrate_b_ctymanuf_wkrs1920 <- ivreg(</pre>
 povrate_b ~ dism1990 + lenper + ctymanuf_wkrs1920 | lenper + ctymanuf_wkrs1920 + herf,
  data = aej_maindata
model_povrate_b_lfp1920 <- ivreg(</pre>
  povrate_b ~ dism1990 + lenper + lfp1920 | lenper + lfp1920 + herf,
  data = aej_maindata
model_povrate_b_herfscore <- ivreg(</pre>
  povrate_b ~ dism1990 + lenper + herfscore | lenper + herfscore + herf,
  data = aej_maindata
summary(model_lngini_w_count1920)
Call:
ivreg(formula = lngini_w ~ dism1990 + lenper + count1920 | lenper +
    count1920 + herf, data = aej_maindata)
Residuals:
      Min
                 1Q
                       Median
                                     3Q
                                              Max
-0.155103 -0.036506 0.002892 0.039800 0.240711
Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept) -7.258e-01 6.100e-02 -11.899 < 2e-16 ***
dism1990
            -3.742e-01 1.185e-01 -3.157 0.00203 **
            5.059e+00 5.266e+00 0.961 0.33871
lenper
count1920 1.006e-05 3.129e-06 3.215 0.00169 **
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.05903 on 117 degrees of freedom
                               Adjusted R-squared: -0.3516
Multiple R-Squared: -0.3178,
Wald test: 4.289 on 3 and 117 DF, p-value: 0.006546
summary(model_lngini_b_count1920)
ivreg(formula = lngini_b ~ dism1990 + lenper + count1920 | lenper +
    count1920 + herf, data = aej_maindata)
Residuals:
     Min
               1Q Median
                                 3Q
                                         Max
-0.64974 -0.07188 0.01023 0.09361 0.39445
```

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```
(Intercept) -1.333e+00 1.684e-01 -7.918 1.54e-12 ***
dism1990 8.987e-01 3.272e-01 2.747 0.00697 **
lenper
           -7.799e+00 1.454e+01 -0.537 0.59263
count1920 -5.982e-06 8.637e-06 -0.693 0.48993
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.1629 on 117 degrees of freedom
Multiple R-Squared: 0.02494,
                             Adjusted R-squared: -6.029e-05
Wald test: 4.179 on 3 and 117 DF, p-value: 0.007521
summary(model_povrate_w_count1920)
Call:
ivreg(formula = povrate_w ~ dism1990 + lenper + count1920 | lenper +
   count1920 + herf, data = aej_maindata)
Residuals:
      Min
                  1Q
                        Median
                                       ЗQ
                                                 Max
-0.0994692 -0.0232872 -0.0004628 0.0205997 0.1084953
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.071e-01 3.821e-02 5.421 3.23e-07 ***
         -2.141e-01 7.424e-02 -2.884 0.00468 **
dism1990
lenper
            3.629e-01 3.299e+00 0.110 0.91259
count1920 4.649e-06 1.960e-06 2.372 0.01932 *
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.03697 on 117 degrees of freedom
Multiple R-Squared: -0.119, Adjusted R-squared: -0.1477
Wald test: 4.035 on 3 and 117 DF, p-value: 0.009022
summary(model_povrate_b_count1920)
Call:
ivreg(formula = povrate_b ~ dism1990 + lenper + count1920 | lenper +
   count1920 + herf, data = aej_maindata)
Residuals:
     Min
                1Q
                    Median
                                   3Q
                                            Max
-0.163894 -0.045700 -0.009892 0.037492 0.275884
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.192e-01 7.894e-02 1.510 0.1337
           2.812e-01 1.534e-01 1.833 0.0693 .
dism1990
lenper
           -4.483e+00 6.815e+00 -0.658 0.5120
count1920 -5.779e-06 4.049e-06 -1.427 0.1562
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.07639 on 117 degrees of freedom
Multiple R-Squared: 0.1043, Adjusted R-squared: 0.08138
```

Estimate Std. Error t value Pr(>|t|)

Coefficients:

```
Wald test: 1.212 on 3 and 117 DF, p-value: 0.3086
```

Daisy's Section?

Table 1—Testing RDI as an Instrument

```
library(lmtest)
library(sandwich)
# Assuming your data is stored in a data.frame called 'aej_maindata'
# Table 1, OLS regressions with robust standard errors
reg1 <- lm(dism1990 ~ herf + lenper, data = aej_maindata)</pre>
coeftest(reg1, vcov = vcovHC(reg1, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.29356 0.06407 4.5818 1.152e-05 ***
            herf
lenper
           18.51449 10.73123 1.7253 0.08709 .
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg2 <- lm(area1910/1000 ~ herf + lenper, data = aej_maindata)
coeftest(reg2, vcov = vcovHC(reg2, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 18.4096 8.6123 2.1376 0.03701 *
             -3.9926 11.9865 -0.3331 0.74033
herf
           -574.4010 553.6690 -1.0374 0.30407
lenper
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg3 <- lm(count1910/1000 ~ herf + lenper, data = aej_maindata)
coeftest(reg3, vcov = vcovHC(reg3, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.97688 0.92719 1.0536 0.2942
             0.66575
                       1.36296 0.4885
                                         0.6261
herf
lenper
            75.55319 134.81490 0.5604
                                        0.5763
reg4 <- lm(ethseg10 ~ herf + lenper, data = aej_maindata)</pre>
coeftest(reg4, vcov = vcovHC(reg4, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
```

(Intercept) 0.238493 0.121372 1.9650 0.05547.

```
15.343030 53.248500 0.2881 0.77453
lenper
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
reg5 <- lm(ethiso10 ~ herf + lenper, data = aej_maindata)</pre>
coeftest(reg5, vcov = vcovHC(reg5, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)
            herf
            lenper
          -12.438846 17.288261 -0.7195 0.4755
reg6 <- lm(black1910 ~ herf + lenper, data = aej_maindata)</pre>
coeftest(reg6, vcov = vcovHC(reg6, type = "HC1"))
t test of coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.00655580 0.00725493 0.9036 0.3680
          herf
           lenper
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
reg7 <- lm(passpc/1000 ~ herf + lenper, data = aej maindata)
coeftest(reg7, vcov = vcovHC(reg7, type = "HC1"))
t test of coefficients:
          Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.27489 0.13535 2.0310 0.06969.
          -0.13211 0.18321 -0.7210 0.48740
herf
lenper
           3.36059 20.50737 0.1639 0.87310
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg8 <- lm(black1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg8, vcov = vcovHC(reg8, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) -0.0021728  0.0058688 -0.3702  0.7119
herf
           0.0131740 0.0090546 1.4550 0.1483
lenper
           9.1187058 0.6153344 14.8191 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

0.076499 0.185463 0.4125 0.68191

herf

```
reg9 <- lm(ctyliterate1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg9, vcov = vcovHC(reg9, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
herf
           lenper
___
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg10 <- lm(lfp1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg10, vcov = vcovHC(reg10, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.401393 0.018348 21.8760 < 2e-16 ***
           0.028369 0.023958 1.1841 0.23875
herf
lenper
           -3.426924 1.500112 -2.2844 0.02413 *
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg11 <- lm(ctytrade_wkrs1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg11, vcov = vcovHC(reg11, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.115919 0.066751 1.7366 0.08507.
           -0.080325
                     0.093662 -0.8576 0.39285
herf
lenper
           -0.151642 2.909673 -0.0521 0.95852
___
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg12 <- lm(ctymanuf_wkrs1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg12, vcov = vcovHC(reg12, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.30747 0.10227 3.0066 0.003229 **
herf
           0.19053
                     0.13699 1.3908 0.166889
           18.40027 10.91114 1.6864 0.094366 .
lenper
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg13 <- lm(ctyrail_wkrs1920 ~ herf + lenper, data = aej_maindata)
coeftest(reg13, vcov = vcovHC(reg13, type = "HC1"))
```

. .

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.055146 0.050550 1.0909 0.2775
           -0.073849 0.068134 -1.0839 0.2806
            1.591711 2.428310 0.6555 0.5134
lenper
reg14 <- lm(incseg ~ herf + lenper, data = aej_maindata)</pre>
coeftest(reg14, vcov = vcovHC(reg14, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.195698 0.025116 7.7916 6.25e-11 ***
herf
           -2.503764 1.626029 -1.5398 0.1284
lenper
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Table 2—The Effects of Segregation on Poverty and Inequality among Blacks and Whites
library(AER)
library(lmtest)
library(sandwich)
#Within-race poverty and inequality Gini index (1st row and 1-2 col of the table)
reg lngini w <- lm(lngini w ~ dism1990, data = aej maindata)
coeftest(reg_lngini_w, vcov = vcovHC(reg_lngini_w, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
dism1990
         -0.079402  0.036977  -2.1473  0.03379 *
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg_lngini_b <- lm(lngini_b ~ dism1990, data = aej_maindata)
coeftest(reg_lngini_b, vcov = vcovHC(reg_lngini_b, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) -1.101809 0.061197 -18.0043 < 2.2e-16 ***
dism1990
          0.459484 0.092814 4.9506 2.466e-06 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
#Poverty rate (2nd row, col 1-2)
reg_povrate_w <- lm(povrate_w ~ dism1990, data = aej_maindata)</pre>
coeftest(reg_povrate_w, vcov = vcovHC(reg_povrate_w, type = "HC1"))
```

t test of coefficients:

```
Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.135918 0.012327 11.0257 < 2.2e-16 ***
dism1990 -0.072789 0.019492 -3.7344 0.0002903 ***
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
reg_povrate_b <- lm(povrate_b ~ dism1990, data = aej_maindata)</pre>
coeftest(reg_povrate_b, vcov = vcovHC(reg_povrate_b, type = "HC1"))
t test of coefficients:
          Estimate Std. Error t value Pr(>|t|)
dism1990
        Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
# Table 2, Panel 1 - IV regressions
ivreg1 <- ivreg(lngini_w ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg1, robust = TRUE)
Call:
ivreg(formula = lngini_w ~ dism1990 | herf, data = aej_maindata)
Residuals:
            1Q Median
                            3Q
                                   Max
-0.15407 -0.02944 0.00158 0.03444 0.27167
Coefficients:
          Estimate Std. Error t value Pr(>|t|)
0.09420 -3.213 0.00169 **
dism1990 -0.30263
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.05833 on 119 degrees of freedom
Multiple R-Squared: -0.3088,
                          Adjusted R-squared: -0.3198
Wald test: 10.32 on 1 and 119 DF, p-value: 0.001693
ivreg2 <- ivreg(lngini_b ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg2, robust = TRUE)
Call:
ivreg(formula = lngini_b ~ dism1990 | herf, data = aej_maindata)
Residuals:
              1Q
                   Median
                                ЗQ
                                       Max
-0.639386 -0.074655 0.004675 0.097568 0.392609
Coefficients:
          Estimate Std. Error t value Pr(>|t|)
```

t test of coefficients:

. .

```
0.8288
                        0.2573 3.221 0.00165 **
dism1990
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.1593 on 119 degrees of freedom
Multiple R-Squared: 0.05149,
                              Adjusted R-squared: 0.04352
Wald test: 10.37 on 1 and 119 DF, p-value: 0.00165
ivreg3 <- ivreg(povrate_w ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg3, robust = TRUE)
Call:
ivreg(formula = povrate_w ~ dism1990 | herf, data = aej_maindata)
Residuals:
                    Median
                                    3Q
     Min
               1Q
-0.069777 -0.024144 -0.002442 0.023779 0.105029
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.20389 0.03412 5.975 2.45e-08 ***
          -0.19231 0.05971 -3.221 0.00165 **
dism1990
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.03697 on 119 degrees of freedom
Multiple R-Squared: -0.138, Adjusted R-squared: -0.1476
Wald test: 10.37 on 1 and 119 DF, p-value: 0.001648
ivreg4 <- ivreg(povrate_b ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg4, robust = TRUE)
Call:
ivreg(formula = povrate_b ~ dism1990 | herf, data = aej_maindata)
Residuals:
    Min
              1Q Median
                                3Q
                                        Max
-0.15319 -0.04358 -0.01011 0.04000 0.26335
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.13268 0.07054 1.881 0.0624.
dism1990
          0.23110 0.12343 1.872 0.0636 .
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.07643 on 119 degrees of freedom
Multiple R-Squared: 0.08813,
                              Adjusted R-squared: 0.08047
Wald test: 3.505 on 1 and 119 DF, p-value: 0.06362
# Table 2, Panel 1 (Subset)
reg15 <- lm(lngini_w ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg15, vcov = vcovHC(reg15, type = "HC1"))
```

t test of coefficients:

```
Estimate Std. Error t value Pr(>|t|)
-0.110421 0.065829 -1.6774
herf
                                       0.1054
           3.630380 28.053791 0.1294 0.8980
lenper
---
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg16 <- lm(lngini_b ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg16, vcov = vcovHC(reg16, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) -1.05955
                    0.23014 -4.6039 9.562e-05 ***
                      0.42437 0.3924
herf
            0.16650
                                       0.6980
          -20.97796 163.03980 -0.1287
                                       0.8986
lenper
___
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
reg17 <- lm(povrate_w ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg17, vcov = vcovHC(reg17, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.124555 0.016081 7.7457 3.224e-08 ***
herf
          0.5907
          10.948640 20.104772 0.5446
lenper
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
reg18 <- lm(povrate_b ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg18, vcov = vcovHC(reg18, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.275441 0.041536 6.6314 4.929e-07 ***
herf
          -0.136242 0.093838 -1.4519
                                     0.1585
lenper
          80.445959 48.508019 1.6584
                                      0.1093
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
# Table 2, Panel 2 - OLS regressions
reg19 <- lm(ln90w90b ~ dism1990, data = aej_maindata)
coeftest(reg19, vcov = vcovHC(reg19, type = "HC1"))
t test of coefficients:
          Estimate Std. Error t value Pr(>|t|)
dism1990
        0.111120 0.086270 1.2880 0.2002289
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
reg20 <- lm(ln10w10b ~ dism1990, data = aej_maindata)
coeftest(reg20, vcov = vcovHC(reg20, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) -0.097944 0.159034 -0.6159
                                         0.5392
dism1990 1.295175 0.249427 5.1926 8.669e-07 ***
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
reg21 <- lm(ln90w10b ~ dism1990, data = aej_maindata)</pre>
coeftest(reg21, vcov = vcovHC(reg21, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.12209 0.17968 11.8105 < 2.2e-16 ***
dism1990
            1.17185
                       0.28241 4.1494 6.288e-05 ***
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
reg22 <- lm(ln90b10w ~ dism1990, data = aej_maindata)</pre>
coeftest(reg22, vcov = vcovHC(reg22, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 2.011354 0.077148 26.0715 < 2e-16 ***
dism1990
         -0.234441 0.131000 -1.7896 0.07606 .
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
# Table 2, Panel 2 - IV regressions
ivreg5 <- ivreg(ln90w90b ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg5, robust = TRUE)
Call:
ivreg(formula = ln90w90b ~ dism1990 | herf, data = aej_maindata)
Residuals:
                      Median
                1Q
-0.504649 -0.083827 0.001965 0.090971 0.442302
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.3350
                       0.1409 2.378
                                          0.019 *
dism1990
            -0.1109
                        0.2465 -0.450
                                          0.654
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.1526 on 119 degrees of freedom
Multiple R-Squared: -0.03014, Adjusted R-squared: -0.03879
Wald test: 0.2025 on 1 and 119 DF, p-value: 0.6535
```

```
ivreg6 <- ivreg(ln10w10b ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg6, robust = TRUE)
Call:
ivreg(formula = ln10w10b ~ dism1990 | herf, data = aej_maindata)
Residuals:
     Min
               1Q Median
                                ЗQ
                                         Max
-0.99996 -0.29586 -0.02606 0.22347 1.20237
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
                     0.4028 -1.981 0.049922 *
(Intercept) -0.7979
dism1990
            2.5259
                        0.7049 3.584 0.000492 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.4364 on 119 degrees of freedom
Multiple R-Squared: 0.01551,
                              Adjusted R-squared: 0.007233
Wald test: 12.84 on 1 and 119 DF, p-value: 0.0004922
ivreg7 <- ivreg(ln90w10b ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg7, robust = TRUE)
ivreg(formula = ln90w10b ~ dism1990 | herf, data = aej_maindata)
Residuals:
     Min
                1Q
                      Median
                                     30
                                             Max
-1.107440 -0.212875 0.001563 0.195718 1.253435
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.8345
                     0.3957 4.636 9.17e-06 ***
dism1990
             1.6775
                        0.6924
                                 2.423 0.0169 *
___
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.4287 on 119 degrees of freedom
Multiple R-Squared: 0.1008, Adjusted R-squared: 0.09326
Wald test: 5.87 on 1 and 119 DF, p-value: 0.01691
ivreg8 <- ivreg(ln90b10w ~ dism1990 | herf, data = aej_maindata)</pre>
summary(ivreg8, robust = TRUE)
ivreg(formula = ln90b10w ~ dism1990 | herf, data = aej_maindata)
Residuals:
     Min
               1Q Median
                                 3Q
                                         Max
-0.52089 -0.12989 -0.01431 0.10856 0.91301
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
```

```
(Intercept) 2.2974
                        0.1912 12.017 <2e-16 ***
dism1990
                        0.3345 -2.204 0.0294 *
            -0.7375
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.2071 on 119 degrees of freedom
Multiple R-Squared: -0.09306, Adjusted R-squared: -0.1022
Wald test: 4.86 on 1 and 119 DF, p-value: 0.02941
# Table 2, Panel 2 (Subset condition)
reg23 <- lm(ln90w90b ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg23, vcov = vcovHC(reg23, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.55121 0.12330 4.4706 0.0001359 ***
           -0.44329 0.21693 -2.0435 0.0512572 .
lenper
           39.95233 90.96575 0.4392 0.6641439
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg24 <- lm(ln10w10b ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg24, vcov = vcovHC(reg24, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.32666 0.32375 1.0090 0.3223
herf
            -0.13508
                        0.53192 -0.2540
                                         0.8015
lenper
            97.43497 282.18260 0.3453
                                         0.7327
reg25 <- lm(ln90w10b ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg25, vcov = vcovHC(reg25, type = "HC1"))
t test of coefficients:
            Estimate Std. Error t value Pr(>|t|)
            2.62890 0.33853 7.7656 3.075e-08 ***
(Intercept)
herf
            -0.44874
                        0.55760 -0.8048
                                          0.4282
           160.07624 290.06024 0.5519
lenper
                                          0.5857
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
reg26 <- lm(ln90b10w ~ herf + lenper, data = aej_maindata, subset = closeness < -400)
coeftest(reg26, vcov = vcovHC(reg26, type = "HC1"))
t test of coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.75103 0.14380 12.1769 3.028e-12 ***
herf
            0.12963
                      0.24849 0.5217
                                         0.6063
           22.68890 95.68759 0.2371
                                         0.8144
lenper
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```