The Causal Effect of Radical Right Success on Mainstream Parties' Policy Positions. A Regression Discontinuity Approach. BJPS.

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```
library( dplyr )
library( magrittr )
source( 'rrp_rdd_functions.R' )
load( 'rrp_rdd.Rdata' )
```

Session and Variable Information

sessionInfo()

R version 3.4.3 (2017-11-30)

Platform: x86_64-apple-darwin15.6.0 (64-bit) Running under: macOS High Sierra 10.13.1

packages

attached base packages:

[1] stats graphics grDevices utils datasets methods base

other attached packages:

```
[1] rdd_0.57 magrittr_1.5 dplyr_0.7.4 memisc_0.99.14.9
```

[5] sandwich_2.4-0 lmtest_0.9-35 ggplot2_2.2.1

Variable description

```
iso2c: iso2 character country code
```

edate: election date

party: CMP-code mainstream party

partyname: name of mainstream party

parfam: party family of mainstream party (CMP-coding)

thrs: electoral threshold

thrs 1: electoral threshold (lagged)

er.v.c: radical right party vote share (centerd on electoral threshold)

er.v.c_l: radical right party vote share (centerd on electoral threshold, lagged)

er.in: radical right parliamentary presence (binary indicator)

er.in_l: radical right parliamentary presence (binary indicator, lagged)

rile.logit: rile score (according to Lowe et al. 2011)

per607: multiculturalism positive (CMP coding)

per608: multiculturalism negative (CMP coding)

multic.logit_fd: cultural protectionism score (Lowe et al. 2011, first difference)

per608_fd: per608 score (first difference)

multic.ratio fd: cultural protectionism score (Kim and Fording 2003, first difference)

af.bipolar_fd: cultural protectionism score (Alonso and da Fonseca 2012, first difference)

meguid.bipolar_fd: cultural protectionism score (Meguid 2008, first difference)

env.logit_fd: environment protection score (Lowe et al. 2011, first difference)

Article: Tables and Figures

Figure 1: Mainstream party position change on cultural protectionism

```
p1 \leftarrow jump.plot( data = subset( ds , er.v.c_1 \leftarrow 10 )
                     , force.var = 'er.v.c_l'
                     , yvar = 'multic.logit_fd'
                     , seat.identifier = 'er.in_l'
                       polynomial = 3
p1
     8 -
Cultural Protectionism
                                0
                                  0
    -8 -
                         -2.5
          -5.0
                                                       2.5
                                                                       5.0
                                                                                      7.5
                                                                                                    10.0
                                     Vote Share of Radical Right Parties
                                     O RRP w/o seats
                                                           RRP w seat(s)
```

Table 2: Mainstream party position change on cultural protectionism

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 3.072*** | 0.64 | 0.00 | 3.315 | Non-Parametric | 1 | 214 | 32 |
| 4.388*** | 1.18 | 0.00 | 3.315 | Non-Parametric | 2 | 214 | 32 |
| 3.777*** | 0.82 | 0.00 | global | Parametric | 3 | 272 | 119 |
| 4.853*** | 1.00 | 0.00 | global | Parametric | 4 | 272 | 119 |

Table 3: Mainstream left party position change on cultural protectionism

```
ds %<>%
  group_by( iso2c ) %>%
  mutate( country.mean.rile.logit = mean( rile.logit , na.rm = TRUE )) %>%
  ungroup() %>%
  group_by( party ) %>%
  mutate( mean.rile.logit = mean ( rile.logit , na.rm = TRUE )) %>%
  ungroup( )
rd.ml <- rd.base( data = subset( ds , ( mean.rile.logit < country.mean.rile.logit ))</pre>
                  , force.var = 'er.v.c_l'
                  , yvar = 'multic.logit_fd'
                  , seat.identifier = 'er.in_l'
                  , fixed.effects = 'iso2c'
                  , clust1 = 'party'
                  , clust2 = 'edate'
                  , polynomials = c(1, 2, 3, 4)
                  , bws = NULL
print( xtable::xtable( rd.ml ) , comment = FALSE , include.rownames = FALSE )
```

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 2.996*** | 0.87 | 0.00 | 2.999 | Non-Parametric | 1 | 91 | 19 |
| 2.157** | 0.93 | 0.02 | 2.999 | Non-Parametric | 2 | 91 | 19 |
| 3.685*** | 1.01 | 0.00 | global | Parametric | 3 | 124 | 59 |
| 4.067*** | 1.24 | 0.00 | global | Parametric | 4 | 124 | 59 |

Table 4: Mainstream right party position change on cultural protectionism

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 3.435*** | 0.76 | 0.00 | 3.515 | Non-Parametric | 1 | 121 | 11 |
| 7.951*** | 1.85 | 0.00 | 3.515 | Non-Parametric | 2 | 121 | 11 |
| 4.164*** | 0.86 | 0.00 | global | Parametric | 3 | 148 | 60 |
| 6.312*** | 1.34 | 0.00 | global | Parametric | 4 | 148 | 60 |

Figure 2: LATE under varying bandwidths

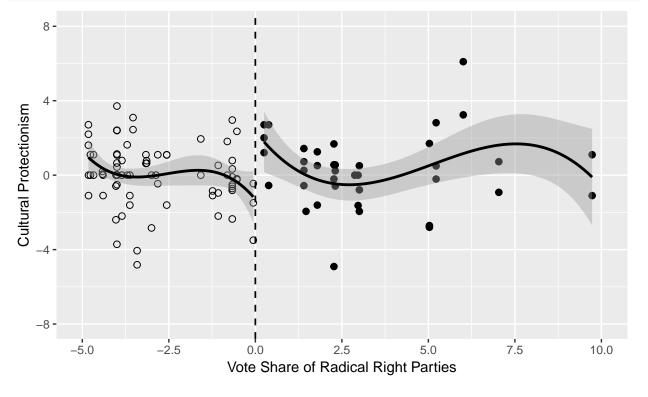
```
rd.sens.data <- rd.sens( data = ds
                         , force.var = 'er.v.c_l'
                         , yvar = 'multic.logit_fd'
                         , seat.identifier = 'er.in l'
                         , fixed.effects = 'iso2c'
                         , clust1 = 'party'
                         , clust2 = 'edate'
                         , polynomials = c(1, 2)
                          bws = seq(1.5, 10, .25)
print( xtable::xtable( rd.sens.data )
       , include.rownames = FALSE
       , tabular.environment = 'longtable'
       , hline.after = c(-1,nrow( rd.sens.data ))
       , add.to.row = list( pos = list( 0 )
                            , command = '\\hline \\endhead ' )
      , comment = FALSE )
```

| est | se | stat | p | lwr | upr | bw | poly |
|------|------|-----------------------|------|------|------|------|------|
| 4.29 | 1.18 | 3.64 | 0.00 | 1.95 | 6.63 | 1.50 | 1.00 |
| 4.29 | 1.18 | 3.64 | 0.00 | 1.95 | 6.63 | 1.50 | 1.00 |
| 4.14 | 1.13 | 3.66 | 0.00 | 1.90 | 6.38 | 1.75 | 1.00 |
| 4.12 | 1.13 | 3.65 | 0.00 | 1.89 | 6.36 | 2.00 | 1.00 |
| 4.11 | 1.14 | 3.60 | 0.00 | 1.85 | 6.36 | 2.25 | 1.00 |
| 4.11 | 1.14 | 3.62 | 0.00 | 1.87 | 6.35 | 2.50 | 1.00 |
| 3.97 | 1.00 | 3.97 | 0.00 | 2.00 | 5.94 | 2.75 | 1.00 |
| 3.46 | 0.66 | 5.21 | 0.00 | 2.15 | 4.77 | 3.00 | 1.00 |
| 3.10 | 0.64 | 4.86 | 0.00 | 1.84 | 4.36 | 3.25 | 1.00 |
| 3.02 | 0.65 | 4.63 | 0.00 | 1.73 | 4.31 | 3.50 | 1.00 |

| est | se | stat | p | lwr | upr | bw | poly |
|------|------|-----------------------|------|------|------|-------|------|
| 2.97 | 0.65 | 4.58 | 0.00 | 1.69 | 4.25 | 3.75 | 1.00 |
| 2.90 | 0.61 | 4.79 | 0.00 | 1.70 | 4.09 | 4.00 | 1.00 |
| 2.79 | 0.55 | 5.09 | 0.00 | 1.71 | 3.87 | 4.25 | 1.00 |
| 2.73 | 0.54 | 5.09 | 0.00 | 1.67 | 3.78 | 4.50 | 1.00 |
| 2.68 | 0.53 | 5.03 | 0.00 | 1.63 | 3.73 | 4.75 | 1.00 |
| 2.64 | 0.53 | 4.98 | 0.00 | 1.60 | 3.69 | 5.00 | 1.00 |
| 2.61 | 0.52 | 5.03 | 0.00 | 1.59 | 3.64 | 5.25 | 1.00 |
| 2.56 | 0.51 | 5.01 | 0.00 | 1.56 | 3.57 | 5.50 | 1.00 |
| 2.53 | 0.51 | 4.95 | 0.00 | 1.52 | 3.54 | 5.75 | 1.00 |
| 2.51 | 0.51 | 4.89 | 0.00 | 1.50 | 3.52 | 6.00 | 1.00 |
| 2.47 | 0.52 | 4.78 | 0.00 | 1.45 | 3.49 | 6.25 | 1.00 |
| 2.45 | 0.52 | 4.70 | 0.00 | 1.42 | 3.47 | 6.50 | 1.00 |
| 2.43 | 0.52 | 4.64 | 0.00 | 1.40 | 3.46 | 6.75 | 1.00 |
| 2.41 | 0.52 | 4.60 | 0.00 | 1.38 | 3.44 | 7.00 | 1.00 |
| 2.40 | 0.52 | 4.58 | 0.00 | 1.37 | 3.44 | 7.25 | 1.00 |
| 2.40 | 0.53 | 4.57 | 0.00 | 1.37 | 3.43 | 7.50 | 1.00 |
| 2.40 | 0.53 | 4.56 | 0.00 | 1.36 | 3.43 | 7.75 | 1.00 |
| 2.39 | 0.53 | 4.55 | 0.00 | 1.36 | 3.43 | 8.00 | 1.00 |
| 2.39 | 0.53 | 4.54 | 0.00 | 1.35 | 3.43 | 8.25 | 1.00 |
| 2.39 | 0.53 | 4.53 | 0.00 | 1.35 | 3.43 | 8.50 | 1.00 |
| 2.40 | 0.53 | 4.54 | 0.00 | 1.36 | 3.43 | 8.75 | 1.00 |
| 2.40 | 0.53 | 4.55 | 0.00 | 1.36 | 3.44 | 9.00 | 1.00 |
| 2.41 | 0.53 | 4.55 | 0.00 | 1.37 | 3.45 | 9.25 | 1.00 |
| 2.41 | 0.53 | 4.55 | 0.00 | 1.37 | 3.45 | 9.50 | 1.00 |
| 2.42 | 0.53 | 4.55 | 0.00 | 1.37 | 3.46 | 9.75 | 1.00 |
| 2.42 | 0.53 | 4.54 | 0.00 | 1.37 | 3.46 | 10.00 | 1.00 |
| 3.90 | 1.43 | 2.72 | 0.01 | 1.05 | 6.74 | 1.50 | 2.00 |
| 4.12 | 1.50 | 2.74 | 0.01 | 1.14 | 7.10 | 1.75 | 2.00 |
| 4.11 | 1.35 | 3.05 | 0.00 | 1.44 | 6.78 | 2.00 | 2.00 |
| 4.12 | 1.33 | 3.10 | 0.00 | 1.49 | 6.75 | 2.25 | 2.00 |
| 4.64 | 1.37 | 3.39 | 0.00 | 1.94 | 7.34 | 2.50 | 2.00 |
| 4.47 | 1.27 | 3.53 | 0.00 | 1.97 | 6.97 | 2.75 | 2.00 |
| 4.40 | 1.25 | 3.51 | 0.00 | 1.93 | 6.87 | 3.00 | 2.00 |
| 4.39 | 1.20 | 3.67 | 0.00 | 2.03 | 6.75 | 3.25 | 2.00 |
| 4.41 | 1.16 | 3.81 | 0.00 | 2.13 | 6.70 | 3.50 | 2.00 |
| 4.28 | 1.03 | 4.15 | 0.00 | 2.24 | 6.31 | 3.75 | 2.00 |
| 4.18 | 1.01 | 4.16 | 0.00 | 2.20 | 6.16 | 4.00 | 2.00 |
| 3.82 | 0.96 | 3.97 | 0.00 | 1.92 | 5.71 | 4.25 | 2.00 |
| 3.77 | 0.97 | 3.89 | 0.00 | 1.86 | 5.68 | 4.50 | 2.00 |
| 3.71 | 0.95 | 3.90 | 0.00 | 1.84 | 5.59 | 4.75 | 2.00 |
| 3.59 | 0.92 | 3.90 | 0.00 | 1.78 | 5.40 | 5.00 | 2.00 |
| 3.37 | 0.87 | 3.89 | 0.00 | 1.66 | 5.07 | 5.25 | 2.00 |
| 3.26 | 0.85 | 3.82 | 0.00 | 1.58 | 4.94 | 5.50 | 2.00 |
| 3.20 | 0.85 | 3.75 | 0.00 | 1.52 | 4.87 | 5.75 | 2.00 |
| 3.15 | 0.85 | 3.69 | 0.00 | 1.47 | 4.82 | 6.00 | 2.00 |
| 3.13 | 0.85 | 3.69 | 0.00 | 1.46 | 4.80 | 6.25 | 2.00 |
| 3.10 | 0.84 | 3.67 | 0.00 | 1.44 | 4.76 | 6.50 | 2.00 |
| 3.07 | 0.84 | 3.65 | 0.00 | 1.41 | 4.73 | 6.75 | 2.00 |
| 3.04 | 0.84 | 3.63 | 0.00 | 1.39 | 4.69 | 7.00 | 2.00 |
| 3.00 | 0.83 | 3.60 | 0.00 | 1.36 | 4.64 | 7.25 | 2.00 |
| 2.97 | 0.83 | 3.57 | 0.00 | 1.33 | 4.60 | 7.50 | 2.00 |
| 2.94 | 0.83 | 3.55 | 0.00 | 1.31 | 4.57 | 7.75 | 2.00 |
| 2.91 | 0.83 | 3.52 | 0.00 | 1.29 | 4.54 | 8.00 | 2.00 |
| | 2.00 | _ | | 0 | | 2.00 | |

| est | se | stat | p | lwr | upr | bw | poly |
|------|------|------|------|------|------|-------|------|
| 2.89 | 0.83 | 3.50 | 0.00 | 1.27 | 4.52 | 8.25 | 2.00 |
| 2.87 | 0.83 | 3.48 | 0.00 | 1.25 | 4.50 | 8.50 | 2.00 |
| 2.82 | 0.82 | 3.44 | 0.00 | 1.20 | 4.43 | 8.75 | 2.00 |
| 2.77 | 0.82 | 3.38 | 0.00 | 1.16 | 4.38 | 9.00 | 2.00 |
| 2.73 | 0.82 | 3.34 | 0.00 | 1.12 | 4.33 | 9.25 | 2.00 |
| 2.69 | 0.82 | 3.29 | 0.00 | 1.08 | 4.30 | 9.50 | 2.00 |
| 2.66 | 0.82 | 3.25 | 0.00 | 1.05 | 4.28 | 9.75 | 2.00 |
| 2.64 | 0.82 | 3.24 | 0.00 | 1.04 | 4.25 | 10.00 | 2.00 |

Figure 3: Mainstream party position change on cultural protectionism, countries with legally fixed threshold



O RRP w/o seats • RRP w seat(s)

Table 5: Mainstream party position change on cultural protectionism, countries with legally fixed threshold

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 2.666*** | 0.66 | 0.00 | 3.790 | Non-Parametric | 1 | 47 | 27 |
| 3.602*** | 0.81 | 0.00 | 3.790 | Non-Parametric | 2 | 47 | 27 |
| 4.186*** | 0.46 | 0.00 | global | Parametric | 3 | 95 | 59 |
| 3.487*** | 0.70 | 0.00 | global | Parametric | 4 | 95 | 59 |

Appendix: Tables and Figures

Table A2: Robustness - Mainstream party position change on cultural protectionism, DV: per608

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 0.714*** | 0.25 | 0.00 | 3.228 | Non-Parametric | 1 | 218 | 32 |
| 1.370*** | 0.43 | 0.00 | 3.228 | Non-Parametric | 2 | 218 | 32 |
| 2.249*** | 0.53 | 0.00 | global | Parametric | 3 | 276 | 119 |
| 1.273** | 0.60 | 0.03 | global | Parametric | 4 | 276 | 119 |

Table A3: Robustness - Mainstream party position change on cultural protectionism, DV: Kim and Fording (2003)

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 1.212** | 0.52 | 0.02 | 2.951 | Non-Parametric | 1 | 96 | 17 |
| 1.288** | 0.60 | 0.03 | 2.951 | Non-Parametric | 2 | 96 | 17 |
| 1.469*** | 0.42 | 0.00 | global | Parametric | 3 | 112 | 70 |
| 1.808*** | 0.57 | 0.00 | global | Parametric | 4 | 112 | 70 |

Table A4: Robustness - Mainstream party position change on cultural protectionism, DV: Alonso and da Fonseca (2012)

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 4.387*** | 1.08 | 0.00 | 3.432 | Non-Parametric | 1 | 220 | 32 |
| 5.847*** | 2.17 | 0.01 | 3.432 | Non-Parametric | 2 | 220 | 32 |
| 6.106*** | 2.18 | 0.01 | global | Parametric | 3 | 276 | 119 |
| 4.613** | 1.96 | 0.02 | global | Parametric | 4 | 276 | 119 |

Table A5: Robustness - Mainstream party position change on cultural protectionism, DV: Meguid (2008)

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|
| 3.395*** | 1.23 | 0.01 | 3.825 | Non-Parametric | 1 | 228 | 32 |
| 4.657** | 2.13 | 0.03 | 3.825 | Non-Parametric | 2 | 228 | 32 |
| 7.503*** | 2.32 | 0.00 | global | Parametric | 3 | 276 | 119 |
| 6.094*** | 2.16 | 0.00 | global | Parametric | 4 | 276 | 119 |

Table A6: Placebo Test

```
ds %>% filter( er.v.c_l < 0 ) -> left
left.median <- median( left$er.v.c_l )</pre>
ds \%% filter( er.v.c_l >= 0 ) -> right
right.median <- median( right$er.v.c_l )</pre>
rd.bw <- rd.placebo( data = ds
                     , force.var = 'er.v.c_l'
                     , yvar = 'multic.logit_fd'
                     , seat.identifier = 'er.in_l'
                     , fixed.effects = 'iso2c'
                     , clust1 = 'party'
                     , clust2 = 'edate'
                     , polynomials = c(1, 2, 3, 4)
                     , cut.ps = c( left.median , 0 , right.median )
                     , bws = NULL
print( xtable::xtable( rd.bw ) , comment = FALSE , include.rownames = FALSE
    , size = 'footnotesize' )
```

| LATE | St. Err. | Bandwidth | Cut-off Point | Polynomial (Degree) | Approach | N left of c | N right of c |
|----------|----------|-----------|---------------|---------------------|----------------|-------------|--------------|
| 0.784 | 1.04 | 2.003 | -2.0 | 1.00 | Non-Parametric | 110 | 149 |
| 3.072*** | 0.64 | 3.315 | 0.0 | 1.00 | Non-Parametric | 214 | 32 |
| -2.639 | 1.82 | 4.698 | 6.2 | 1.00 | Non-Parametric | 40 | 27 |
| 1.005 | 3.43 | 2.003 | -2.0 | 2.00 | Non-Parametric | 110 | 149 |
| 4.388*** | 1.18 | 3.315 | 0.0 | 2.00 | Non-Parametric | 214 | 32 |
| -1.655 | 1.93 | 4.698 | 6.2 | 2.00 | Non-Parametric | 40 | 27 |
| 0.269 | 1.49 | global | -2.0 | 3.00 | Parametric | 123 | 268 |
| 3.777*** | 0.82 | global | 0.0 | 3.00 | Parametric | 272 | 119 |
| -2.567 | 1.77 | global | 6.2 | 3.00 | Parametric | 326 | 65 |
| 1.034 | 1.53 | global | -2.0 | 4.00 | Parametric | 123 | 268 |
| 4.853*** | 1.00 | global | 0.0 | 4.00 | Parametric | 272 | 119 |
| -2.666 | 1.66 | global | 6.2 | 4.00 | Parametric | 326 | 65 |

Table A7: Robustness - Mainstream party position change on environmental protection

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|--------|----------|---------|----------|----------------|------------|-------------|--------------|
| -0.069 | 0.60 | 0.91 | 4.172 | Non-Parametric | 1 | 259 | 36 |
| -0.315 | 0.86 | 0.72 | 4.172 | Non-Parametric | 2 | 259 | 36 |
| -0.428 | 0.82 | 0.60 | global | Parametric | 3 | 272 | 119 |
| -0.862 | 0.97 | 0.38 | global | Parametric | 4 | 272 | 119 |

Table A8: Robustness - Mainstream party position change on cultural protectionism, forcing variable: RRP vote share at election t

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c |
|--------|----------|---------|----------|----------------|------------|-------------|--------------|
| -0.613 | 0.84 | 0.46 | 3.862 | Non-Parametric | 1 | 230 | 34 |
| -0.588 | 1.17 | 0.62 | 3.862 | Non-Parametric | 2 | 230 | 34 |
| -0.320 | 1.20 | 0.79 | global | Parametric | 3 | 265 | 126 |
| -0.007 | 1.31 | 1.00 | global | Parametric | 4 | 265 | 126 |

Table A9: Jackknife analyses

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|---------------------|
| 3.102*** | 0.64 | 0.00 | 3.243 | Non-Parametric | 1 | 210 | 32 | AT |
| 4.394*** | 1.20 | 0.00 | 3.243 | Non-Parametric | 2 | 210 | 32 | AT |
| 3.805*** | 0.81 | 0.00 | global | Parametric | 3 | 268 | 105 | AT |
| 4.661*** | 0.99 | 0.00 | global | Parametric | 4 | 268 | 105 | AT |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|------------------|
| 3.075*** | 0.64 | 0.00 | 3.309 | Non-Parametric | 1 | 214 | 32 | BG |
| 4.389*** | 1.18 | 0.00 | 3.309 | Non-Parametric | 2 | 214 | 32 | $_{\mathrm{BG}}$ |
| 3.777*** | 0.82 | 0.00 | global | Parametric | 3 | 268 | 119 | $_{\mathrm{BG}}$ |
| 4.853*** | 1.00 | 0.00 | global | Parametric | 4 | 268 | 119 | $_{\mathrm{BG}}$ |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|-------|
| 4.111*** | 1.14 | 0.00 | 2.513 | Non-Parametric | 1 | 176 | 25 | СН |
| 4.646*** | 1.37 | 0.00 | 2.513 | Non-Parametric | 2 | 176 | 25 | CH |
| 4.455*** | 0.83 | 0.00 | global | Parametric | 3 | 272 | 95 | CH |
| 3.991*** | 1.07 | 0.00 | global | Parametric | 4 | 272 | 95 | СН |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|-----------------------------|----------|---------|----------|-----------------------|------------------|-------------|-----------------|--------------------------|
| 3.141*** | 0.63 | 0.00 | 3.176 | Non-Parametric | 1 | 214 | 29 | $\overline{\text{CZ}}$ |
| 4.401*** | 1.21 | 0.00 | 3.176 | Non-Parametric | 2 | 214 | 29 | CZ |
| 3.608*** | 0.83 | 0.00 | global | Parametric | 3 | 262 | 116 | CZ |
| 5.150*** | 1.09 | 0.00 | global | Parametric | 4 | 262 | 116 | CZ |
| | | | | | | | | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.042*** | 0.65 | 0.00 | 3.417 | Non-Parametric | 1 | 208 | 32 | $\overline{\mathrm{DE}}$ |
| 4.410*** | 1.18 | 0.00 | 3.417 | Non-Parametric | 2 | 208 | 32 | DE |
| 4.213*** | 0.82 | 0.00 | global | Parametric | 3 | 252 | 119 | DE |
| 5.079*** | 1.10 | 0.00 | global | Parametric | 4 | 252 | 119 | DE |
| | | | 8 | | | | | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.994*** | 1.03 | 0.00 | 2.704 | Non-Parametric | 1 | 161 | 25 | DK |
| 4.484*** | 1.28 | 0.00 | 2.704 | Non-Parametric | 2 | 161 | 25 | DK |
| 3.949*** | 0.85 | 0.00 | global | Parametric | 3 | 251 | 107 | DK |
| 4.896*** | 1.01 | 0.00 | global | Parametric | 4 | 251 | 107 | DK |
| 1.000 | 1.01 | 0.00 | Siobai | 1 drametric | 1 | 201 | 101 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.082*** | 0.64 | 0.00 | 3.288 | Non-Parametric | 1 | 214 | 29 | EE |
| 4.390*** | 1.19 | 0.00 | 3.288 | Non-Parametric | 2 | 214 | 29 | EE |
| 3.752*** | 0.83 | 0.00 | global | Parametric | 3 | 272 | 110 | EE |
| 4.783*** | 0.98 | 0.00 | global | Parametric | 4 | 272 | 110 | EE |
| 4.700 | 0.30 | 0.00 | globai | Tarametric | 4 | 212 | 110 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 2.802*** | 0.58 | 0.00 | 3.400 | Non-Parametric | 1 | 198 | 30 | ES |
| 4.920*** | 1.27 | 0.00 | 3.400 | Non-Parametric | 2 | 198 | 30 | ES |
| 3.602*** | 0.78 | 0.00 | global | Parametric | 3 | 256 | 117 | ES |
| 4.677*** | 0.94 | 0.00 | global | Parametric | 4 | 256 | 117 | ES |
| 4.011 | 0.01 | 0.00 | giobai | 1 drametric | T | 200 | 111 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.040*** | 0.65 | 0.00 | 3.439 | Non-Parametric | 1 | 190 | 32 | FI |
| 4.418*** | 1.18 | 0.00 | 3.439 | Non-Parametric | 2 | 190 | 32 | FI |
| 3.787*** | 0.82 | 0.00 | global | Parametric | 3 | 246 | 119 | FI |
| 4.857*** | 1.01 | 0.00 | global | Parametric | 4 | 246 | 119 | FI |
| 4.001 | 1.01 | 0.00 | giobai | 1 drametric | <u> </u> | 240 | 110 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.212*** | 0.66 | 0.00 | 3.309 | Non-Parametric | 1 | 195 | 32 | GR |
| 4.822*** | 1.40 | 0.00 | 3.309 | Non-Parametric | $\frac{1}{2}$ | 195 | $\frac{32}{32}$ | GR |
| 3.863*** | 0.81 | 0.00 | global | Parametric | 3 | 253 | 119 | GR |
| 4.832*** | 1.02 | 0.00 | global | Parametric | 4 | 253 | 119 | GR |
| 1.002 | 1.02 | 0.00 | 910001 | 1 aramouro | - | 200 | 110 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.066*** | 0.64 | 0.00 | 3.334 | Non-Parametric | 1 | 214 | 32 | HR |
| 4.387*** | 1.18 | 0.00 | 3.334 | Non-Parametric | 2 | 214 | $\frac{32}{32}$ | HR |
| 3.788*** | 0.82 | 0.00 | global | Parametric | 3 | 272 | 32 117 | HR |
| 4.864*** | 1.00 | 0.00 | global | Parametric | 4 | 272 | 117 | HR |
| 4.004 | 1.00 | 0.00 | gionai | 1 arametre | T | 212 | 111 | 1111 |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| $\frac{1.082***}{3.082***}$ | 0.64 | 0.00 | 3.282 | Non-Parametric | 1 orynomiai 1 | 184 | 32 | IE |
| 4.415*** | 1.21 | 0.00 | 3.282 | Non-Parametric | 2 | 184 | 32 | ΙΕ |
| 3.791*** | 0.82 | 0.00 | global | Parametric | 3 | 242 | 32 119 | IE IE |
| 4.868*** | 1.01 | 0.00 | global | Parametric Parametric | 3 4 | 242 | 119 | ΙΕ |
| 4.000 | 1.01 | 0.00 | gionai | 1 arametric | 4 | 242 | 119 | 112 |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|--------------------------------|-------------|---------|---------------|-------------------------------|----------------------|-------------|--------------|------------------------------|
| 3.181*** | 0.63 | 0.00 | 3.130 | Non-Parametric | 1 | 210 | 32 | IT |
| 4.405*** | 1.23 | 0.00 | 3.130 | Non-Parametric | 2 | 210 | 32 | IT |
| 3.735*** | 0.82 | 0.00 | global | Parametric | 3 | 272 | 108 | IT |
| 4.816*** | 0.99 | 0.00 | global | Parametric | 4 | 272 | 108 | IT |
| | | | | | | | | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 2.907*** | 0.70 | 0.00 | 3.711 | Non-Parametric | 1 | 195 | 32 | LU |
| 3.375*** | 0.90 | 0.00 | 3.711 | Non-Parametric | 2 | 195 | 32 | LU |
| 3.372*** | 0.63 | 0.00 | global | Parametric | 3 | 243 | 119 | LU |
| 3.972*** | 0.67 | 0.00 | global | Parametric | 4 | 243 | 119 | LU |
| | | | | | | | | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.072*** | 0.64 | 0.00 | 3.315 | Non-Parametric | 1 | 214 | 32 | LV |
| 4.388*** | 1.18 | 0.00 | 3.315 | Non-Parametric | 2 | 214 | 32 | LV |
| 3.777*** | 0.82 | 0.00 | global | Parametric | 3 | 272 | 117 | LV |
| 4.853*** | 1.00 | 0.00 | global | Parametric | 4 | 272 | 117 | LV |
| | | | 810.501 | 1 0101110 0110 | | | 111 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.126*** | 1.01 | 0.00 | 3.694 | Non-Parametric | 1 | 207 | 26 | NL |
| 7.052** | 3.48 | 0.00 | 3.694 | Non-Parametric | 2 | 207 | 26 | NL |
| 4.444** | 1.99 | 0.04 | global | Parametric | 3 | 257 | 101 | NL |
| 7.260** | 3.24 | 0.03 | global | Parametric | 4 | 257 | 101 | NL |
| 1.200 | 9.24 | 0.00 | globai | 1 arametre | 4 | 201 | 101 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| $\frac{\text{LATE}}{3.070***}$ | 0.64 | 0.00 | 3.299 | Non-Parametric | 1 01y11011111a1 1 | 202 | 32 | NO |
| 4.397*** | 1.19 | 0.00 | 3.299 3.299 | Non-Parametric | 2 | 202 | 32 32 | NO |
| 4.397 3.782*** | 0.82 | 0.00 | | Parametric | 3 | 260 | 32 119 | NO |
| 3.782*** 4.879*** | 1.01 | 0.00 | global | | 3 4 | 260 | 119 | NO |
| 4.879 | 1.01 | 0.00 | global | Parametric | 4 | 200 | 119 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| $\frac{1.064***}{3.064***}$ | 0.64 | 0.00 | 3.337 | Non-Parametric | 1 | 214 | 28 | PL |
| 4.393*** | 1.18 | | 3.337 | Non-Parametric Non-Parametric | $\frac{1}{2}$ | 214 214 | 28 28 | $_{\mathrm{PL}}$ |
| 4.595*** 3.940*** | | 0.00 | | | | | | |
| | 0.83 1.03 | 0.00 | global | Parametric | 3 | 270 | 115 | $_{ m PL}$ |
| 4.893*** | 1.05 | 0.00 | global | Parametric | 4 | 270 | 115 | PL_ |
| T ACDE | Ct E | 1 | D 1 11 | A 1 | D 1 11 | NT 1 Ct C | NT : 1 / C | . 0 |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 2.992*** 4.184*** | 0.65 | 0.00 | 3.381 | Non-Parametric | 1 | 187 | 32 | PT |
| - | 1.15 | 0.00 | 3.381 | Non-Parametric | 2 | 187 | 32 | PT |
| 3.659*** 4.851*** | 0.83 | 0.00 | global | Parametric | 3 | 245 | 119 | PT |
| 4.801 | 1.02 | 0.00 | global | Parametric | 4 | 245 | 119 | PT |
| TATE | Ct E | 1 | D 1 '/1 | Λ | D-1 1 | NT 1-C C | NI:1 / C | :0 |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.058*** | 0.64 | 0.00 | 3.360 | Non-Parametric | 1 | 214 | 31 | RO |
| 4.386*** | 1.17 | 0.00 | 3.360 | Non-Parametric | 2 | 214 | 31 | RO |
| 3.777*** | 0.82 | 0.00 | global | Parametric | 3 | 272 | 118 | RO |
| 4.853*** | 1.00 | 0.00 | global | Parametric | 4 | 272 | 118 | RO |
| T 1000 | a. = | | | | D 1 | 37.1.0 | 37 | |
| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
| 3.057*** | 0.67 | 0.00 | 3.346 | Non-Parametric | 1 | 208 | 32 | SE |
| 4.403*** | 1.18 | 0.00 | 3.346 | Non-Parametric | 2 | 208 | 32 | SE |
| 3.888*** | 0.81 | 0.00 | global | Parametric | 3 | 238 | 119 | $\underset{\sim}{\text{SE}}$ |
| 4.884*** | 1.05 | 0.00 | global | Parametric | 4 | 238 | 119 | SE |
| | | | | | | | | |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|-------|
| 3.104*** | 0.67 | 0.00 | 3.404 | Non-Parametric | 1 | 214 | 22 | SI |
| 3.840*** | 1.37 | 0.01 | 3.404 | Non-Parametric | 2 | 214 | 22 | SI |
| 3.703*** | 0.81 | 0.00 | global | Parametric | 3 | 272 | 109 | SI |
| 4.785*** | 0.98 | 0.00 | global | Parametric | 4 | 272 | 109 | SI |

| LATE | St. Err. | p-value | Bandwith | Approach | Polynomial | N left of c | N right of c | iso2c |
|----------|----------|---------|----------|----------------|------------|-------------|--------------|-------|
| 3.315*** | 0.67 | 0.00 | 3.108 | Non-Parametric | 1 | 207 | 29 | SK |
| 4.133*** | 0.99 | 0.00 | 3.108 | Non-Parametric | 2 | 207 | 29 | SK |
| 3.719*** | 0.84 | 0.00 | global | Parametric | 3 | 269 | 112 | SK |
| 5.174*** | 1.13 | 0.00 | global | Parametric | 4 | 269 | 112 | SK |

Detach Packages

```
detach( package:dplyr )
detach( package:magrittr )
```