# Policy or Partisanship: Replicating Results From An Analysis of Quasi-Experimental Evidence From Brexit

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## Let's begin by cleaning the data:

```
# Recode EU integration values:
BES8 <- BES8 %>%
  dplyr::mutate(EUIntegrationCon = case_when(EUIntegrationCon == "Unite fully with the European Union"
                                      EUIntegrationCon == "1" ~ 1, EUIntegrationCon == "2" ~ 2,
                                      EUIntegrationCon == "3" ~ 3, EUIntegrationCon == "4" ~ 4,
                                      EUIntegrationCon == "5" ~ 5, EUIntegrationCon == "6" ~ 6,
                                      EUIntegrationCon == "7" ~ 7, EUIntegrationCon == "8" ~ 8,
                                      EUIntegrationCon == "9" ~ 9, EUIntegrationCon == "Protect our ind
BES8 <- BES8 %>%
  dplyr::mutate(EUIntegrationLab = case_when(EUIntegrationLab == "Unite fully with the European Union"
                                      EUIntegrationLab == "1" ~ 1,
                                      EUIntegrationLab == "2" ~ 2,
                                      EUIntegrationLab == "3" ~ 3,
                                      EUIntegrationLab == "4" ~ 4,
                                      EUIntegrationLab == "5" ~ 5,
                                      EUIntegrationLab == "6" ~ 6,
                                      EUIntegrationLab == "7" ~ 7,
                                      EUIntegrationLab == "8" ~ 8,
                                      EUIntegrationLab == "9" ~ 9,
                                      EUIntegrationLab == "Protect our independence" ~ 10))
BES8 <- BES8 %>%
  dplyr::mutate(EUIntegrationSelf = case_when(EUIntegrationSelf == "Unite fully with the European Union
                                       EUIntegrationSelf == "1" ~ 1,
                                       EUIntegrationSelf == "2" ~ 2,
                                       EUIntegrationSelf == "3" ~ 3,
                                       EUIntegrationSelf == "4" ~ 4,
                                       EUIntegrationSelf == "5" ~ 5,
                                       EUIntegrationSelf == "6" ~ 6,
                                       EUIntegrationSelf == "7" ~ 7,
                                       EUIntegrationSelf == "8" ~ 8,
                                       EUIntegrationSelf == "9" ~ 9,
                                       EUIntegrationSelf == "Protect our independence" ~ 10))
BES9 <- BES9 %>%
  mutate(EUIntegrationCon = case_when(EUIntegrationCon == "Unite fully with the European Union" ~ 0,
```

```
EUIntegrationCon == "1" ~ 1, EUIntegrationCon == "2" ~ 2,
                                      EUIntegrationCon == "3" ~ 3, EUIntegrationCon == "4" ~ 4,
                                      EUIntegrationCon == "5" ~ 5, EUIntegrationCon == "6" ~ 6,
                                      EUIntegrationCon == "7" ~ 7, EUIntegrationCon == "8" ~ 8,
                                      EUIntegrationCon == "9" ~ 9, EUIntegrationCon == "Protect our ind
BES9 <- BES9 %>%
  mutate(EUIntegrationLab = case_when(EUIntegrationLab == "Unite fully with the European Union" ~ 0,
                                      EUIntegrationLab == "1" ~ 1, EUIntegrationLab == "2" ~ 2,
                                      EUIntegrationLab == "3" ~ 3, EUIntegrationLab == "4" ~ 4,
                                      EUIntegrationLab == "5" ~ 5, EUIntegrationLab == "6" ~ 6,
                                      EUIntegrationLab == "7" ~ 7, EUIntegrationLab == "8" ~ 8,
                                      EUIntegrationLab == "9" ~ 9, EUIntegrationLab == "Protect our ind
BES9 <- BES9 %>%
  mutate(EUIntegrationSelf = case_when(EUIntegrationSelf == "Unite fully with the European Union" ~ 0,
                                       EUIntegrationSelf == "1" ~ 1, EUIntegrationSelf == "2" ~ 2,
                                       EUIntegrationSelf == "3" ~ 3, EUIntegrationSelf == "4" ~ 4,
                                       EUIntegrationSelf == "5" ~ 5, EUIntegrationSelf == "6" ~ 6,
                                       EUIntegrationSelf == "7" ~ 7, EUIntegrationSelf == "8" ~ 8,
                                       EUIntegrationSelf == "9" ~ 9, EUIntegrationSelf == "Protect our
```

# Let's now do some analyses and replication of figures:

```
# Let's analyze the strength of our assumption that there was a sudden change
# in Conservative party positioning, unaffected by other important omitted
# variables (e.g. a similar change in Labor party positioning).
# Examine perceived Euroskepticism of Conservatives and Labour in Waves 8 and 9
# We're looking at a 0 - 10 scale, with 10 being most Euroskeptic
# Note that Wave 8 is immediately leading up to the referendum; Wave 9 is
# immediately after
con_before <- mean(BES8$EUIntegrationCon, na.rm=TRUE)</pre>
con after <- mean(BES9$EUIntegrationCon, na.rm=TRUE)</pre>
lab_before <- mean(BES8$EUIntegrationLab, na.rm=TRUE)</pre>
lab_after <-mean(BES9$EUIntegrationLab, na.rm=TRUE)</pre>
# Percentage change in Conservative party positioning:
(con_after - con_before)/con_before
## [1] 0.08127789
# From the paper: "Only the conservatives exhibited a sudden change in
# positioning on Brexit"; here, we see the average perceived Euroskepticism
# of the Conservatives increase by 8%.
```

#### Let's create Table 1:

```
# And now, for some other relevant cleaning:
# Create race variable:
BES8$white <- ifelse(BES8$profile_ethnicity == "White British" | BES8$profile_ethnicity == "Any other w
BES8$EUIntegrationCon8 <- BES8$EUIntegrationCon
BES8$partyId8 <- BES8$partyId
BES8$EUIntegrationSelf8 <- BES8$EUIntegrationSelf
# Create Conservative partyID, for both Waves 8 and 9:
BES8$Con <- ifelse(BES8$partyId == "Conservative", 1, 0)
BES8$Con8 <- BES8$Con
BES9$Con <- ifelse(BES9$partyId=="Conservative", 1, 0)
BES9$Con9 <- BES9$Con
BES9$EUIntegrationCon9 <- BES9$EUIntegrationCon
BES9$EUIntegrationSelf9 <- BES9$EUIntegrationSelf
BES9$partyId9 <- BES9$partyId
# Let's now answer the main question of the paper: do voters switch their party identification as a
# function of their Euroskepticism?
# Let's subset Wave 8 to Conservatives:
BES8subcons <- BES8[BES8$partyId == "Conservative",]
# Let's merge the Conservatives in Wave 8 to the BE9 (post-referendum) data,
# so we can look at switching:
merged <- merge(BES8subcons, BES9, by= "id")
# And here we go! Table 1:
# Let's create a variable that indicates switching:
merged$partyswitcher <- ifelse(merged$partyId8 != merged$partyId9, 1, 0)
# Table 1:
# Note that the independent variable here is the respondent's self-reported level
# of Euroskepticism, on a 0 - 10 scale:
table1reg <- lm(partyswitcher ~ EUIntegrationSelf8, data = merged)
summary(table1reg)
##
## lm(formula = partyswitcher ~ EUIntegrationSelf8, data = merged)
##
```

```
## Residuals:
                 1Q Median
##
       Min
                                   30
## -0.10124 -0.08324 -0.07553 -0.07553 0.92447
## Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
##
                                 0.010894 9.293 <2e-16 ***
## (Intercept)
                      0.101237
## EUIntegrationSelf8 -0.002570 0.001299 -1.978 0.048 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.2722 on 7328 degrees of freedom
    (197 observations deleted due to missingness)
## Multiple R-squared: 0.0005336, Adjusted R-squared: 0.0003972
## F-statistic: 3.912 on 1 and 7328 DF, p-value: 0.04797
# Let's create a variable that represents the change (post-referendum) in
# perceived Euroskepticism of Conservatives:
merged$Conchange <- merged$EUIntegrationCon9 - merged$EUIntegrationCon8</pre>
# And include it in our regression as an interaction:
intreg1 <- lm(partyswitcher ~ EUIntegrationSelf8 * Conchange,
             data = merged)
summary(intreg1)
##
## Call:
## lm(formula = partyswitcher ~ EUIntegrationSelf8 * Conchange,
##
      data = merged)
##
## Residuals:
                 1Q Median
                                   3Q
## -0.19388 -0.07588 -0.07255 -0.06801 0.94735
## Coefficients:
                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                0.0838146 0.0114044
                                                     7.349 2.24e-13 ***
## EUIntegrationSelf8
                              -0.0012157 0.0013567 -0.896
                                                               0.3702
                                0.0110061 0.0044148 2.493
## Conchange
                                                               0.0127 *
## EUIntegrationSelf8:Conchange -0.0013118 0.0005171 -2.537
                                                               0.0112 *
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Residual standard error: 0.2611 on 6472 degrees of freedom
    (1051 observations deleted due to missingness)
## Multiple R-squared: 0.001254, Adjusted R-squared: 0.000791
## F-statistic: 2.709 on 3 and 6472 DF, p-value: 0.04357
# From the paper (Page 11): the interaction is negative and significant: less
# Euroskeptic Conservatives who perceive that the party has become increasingly
# Euroskeptic are especially likely to reject it.
```

```
# And now, let's throw everything in:
merged$country.x <- as.factor(merged$country.x)</pre>
intreg1a <- lm(partyswitcher ~ EUIntegrationSelf8 * Conchange + age.x + gender.x
              + white + country.x, data = merged)
summary(intreg1a)
##
## Call:
## lm(formula = partyswitcher ~ EUIntegrationSelf8 * Conchange +
      age.x + gender.x + white + country.x, data = merged)
##
## Residuals:
##
       Min
                10
                   Median
                                 30
                                         Max
## -0.21030 -0.07924 -0.06616 -0.05662 0.96608
## Coefficients:
##
                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                             0.0001252 0.0013901 0.090 0.928225
## EUIntegrationSelf8
## Conchange
                             0.0093961 0.0044643 2.105 0.035355 *
                             -0.0008836  0.0002357  -3.749  0.000179 ***
## age.x
                             ## gender.xFemale
                             ## white
## country.xScotland
                             0.0022983 0.0117389 0.196 0.844783
## country.xWales
                              0.0205728 0.0137128 1.500 0.133597
## EUIntegrationSelf8:Conchange -0.0011463 0.0005226 -2.193 0.028311 *
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.2575 on 6207 degrees of freedom
## (1311 observations deleted due to missingness)
## Multiple R-squared: 0.005835, Adjusted R-squared: 0.004553
## F-statistic: 4.554 on 8 and 6207 DF, p-value: 1.522e-05
# And now, let's create our table:
stargazer(table1reg, intreg1, intreg1a,
         title = "Euroskepticism and Defection from the Conservatives",
         covariate.labels = c("Pre-Referendum Euroskepticism",
                             "Perceived Change in Conservative Euroskepticism",
                             "Age",
                             "Female",
                             "White",
                             "Scotland",
                             "Wales",
                             "Pre-Referendum Euroskepticism: Perceived Change in Conservative Euroskep
                             "Constant"),
         dep.var.labels = "Defect from Conservatives",
         no.space = TRUE, star.cutoffs = c(0.05, 0.01, 0.001),
         font.size = "tiny",
         header = FALSE)
```

Table 1: Euroskepticism and Defection from the Conservatives

	Dependent variable: Defect from Conservatives		
	(1)	(2)	(3)
Pre-Referendum Euroskepticism	-0.003* $(0.001)$	-0.001 $(0.001)$	0.0001 (0.001)
Perceived Change in Conservative Euroskepticism	(* ** )	0.011* (0.004)	0.009* (0.004)
Age		` ,	-0.001*** (0.0002)
Female			-0.007 $(0.007)$
White			-0.058** (0.019)
Scotland			0.002 (0.012)
Wales			0.021 $(0.014)$
Pre-Referendum Euroskepticism:Perceived Change in Conservative Euroskepticism		-0.001* (0.001)	-0.001* (0.001)
Constant	0.101*** (0.011)	0.084*** (0.011)	0.181*** (0.023)
Observations	7,330	6,476	6,216
$\mathbb{R}^2$	0.001	0.001	0.006
Adjusted R <sup>2</sup>	0.0004	0.001	0.005
Residual Std. Error	0.272  (df = 7328)	0.261  (df = 6472)	0.258  (df = 6207)
F Statistic	$3.912^* \text{ (df} = 1; 7328)$	2.709* (df = 3; 6472)	$4.554^{***}$ (df = 8; 6207)

\*y<0.05; \*\*p<0.01; \*\*\*p<0.001

```
# From the paper (Page 11): "of those who identified as Conservative before the
# referendum, 9.0 percent of respondents with pre-referendum Euroskepticism
# scores of 4-5 (on a ten-point scale), 9.8 percent of those with scores of 2-3,
# and 9.9 percent of those with scores of 0-1 turned their backs on the party.
# The less Euroskeptic a voter was before the referendum, the more likely they
# were to disaffiliate from the party in the aftermath of its embrace of
# Brexit."

merge45 <- merged[merged$EUIntegrationSelf8=="5" | merged$EUIntegrationSelf8=="4",]
merge23 <- merged[merged$EUIntegrationSelf8=="3" | merged$EUIntegrationSelf8=="2",]
merge01 <- merged[merged$EUIntegrationSelf8=="1" | merged$EUIntegrationSelf8=="0",]

mean(merge45$partyswitcher,na.rm=TRUE)
```

## [1] 0.09011264

```
mean(merge23$partyswitcher,na.rm=TRUE)
```

## [1] 0.09815951

```
mean(merge01$partyswitcher,na.rm=TRUE)
```

## [1] 0.09933775

#### Let's create Table 2:

```
# Let's now subset to pre-referendum non-Conservatives:

BES8notcons<- BES8[BES8$partyId != "Conservative",]

# And now, let's merge that info. with our post-referendum data:</pre>
```

```
merged2 <- merge(BES8notcons, BES9, by = "id")</pre>
# Who switches to Conservative post-referendum?
merged2$switchtocons <- ifelse(merged2$partyId9 == "Conservative", 1, 0)</pre>
# What's the average?
mean(merged2$switchtocons)
## [1] 0.04054324
# Let's regress folks' self-reported pre-referendum level of Euroskepticism, on
# a scale from 0 - 10, on those who switch to Conservative post-referendum.
table2reg <- lm(merged2$switchtocons ~ merged2$EUIntegrationSelf8)
summary(table2reg)
##
## Call:
## lm(formula = merged2$switchtocons ~ merged2$EUIntegrationSelf8)
## Residuals:
       Min
                  1Q
                     Median
                                    3Q
                                            Max
## -0.06553 -0.06553 -0.03881 -0.01876 1.00128
## Coefficients:
##
                                Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              -0.0012841 0.0032449 -0.396
                                                               0.692
## merged2$EUIntegrationSelf8  0.0066818  0.0004537  14.726
                                                              <2e-16 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Residual standard error: 0.1981 on 18515 degrees of freedom
     (1511 observations deleted due to missingness)
## Multiple R-squared: 0.01158,
                                  Adjusted R-squared: 0.01152
## F-statistic: 216.9 on 1 and 18515 DF, p-value: < 2.2e-16
# Let's create a variable that represents the change (post-referendum) in
# perceived Euroskepticism of Conservatives:
merged2$Conchange <- merged2$EUIntegrationCon9 - merged2$EUIntegrationCon8
# And include that variable as an interaction:
intreg2 <- lm(merged2$switchtocons ~ merged2$EUIntegrationSelf8 * merged2$Conchange)
summary(intreg2)
##
## Call:
## lm(formula = merged2$switchtocons ~ merged2$EUIntegrationSelf8 *
```

```
merged2$Conchange)
##
##
## Residuals:
       Min
                    Median
##
                 1Q
                                           Max
  -0.12259 -0.06511 -0.03965 -0.02090 1.02673
##
## Coefficients:
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                 4.171e-05 3.713e-03
                                                                      0.011
## merged2$EUIntegrationSelf8
                                                 6.725e-03 5.208e-04 12.914
## merged2$Conchange
                                                -3.346e-03 1.351e-03 -2.477
## merged2$EUIntegrationSelf8:merged2$Conchange 8.875e-04 1.869e-04
                                                                      4.748
                                               Pr(>|t|)
## (Intercept)
                                                 0.9910
                                                 < 2e-16 ***
## merged2$EUIntegrationSelf8
## merged2$Conchange
                                                  0.0132 *
## merged2$EUIntegrationSelf8:merged2$Conchange 2.07e-06 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.204 on 15135 degrees of freedom
     (4889 observations deleted due to missingness)
## Multiple R-squared: 0.01531,
                                   Adjusted R-squared: 0.01511
## F-statistic: 78.43 on 3 and 15135 DF, p-value: < 2.2e-16
# And now, let's throw everything in again:
intreg2a <- lm(merged2$switchtocons ~ merged2$EUIntegrationSelf8 * merged2$Conchange
              + merged2$age.x + merged2$gender.x + merged2$white +
                as.factor(merged2$country.x))
summary(intreg2a)
##
## Call:
## lm(formula = merged2$switchtocons ~ merged2$EUIntegrationSelf8 *
##
       merged2$Conchange + merged2$age.x + merged2$gender.x + merged2$white +
       as.factor(merged2$country.x))
##
## Residuals:
       Min
                 1Q
                      Median
                                   30
## -0.13735 -0.06229 -0.03944 -0.02026 1.03115
## Coefficients:
##
                                                 Estimate Std. Error t value
## (Intercept)
                                                -0.0065529 0.0091707 -0.715
                                                0.0061302 0.0005416 11.318
## merged2$EUIntegrationSelf8
## merged2$Conchange
                                                -0.0036355 0.0013692
                                                                      -2.655
                                                                       3.625
## merged2$age.x
                                                0.0004114 0.0001135
## merged2$gender.xFemale
                                                -0.0021995 0.0033712 -0.652
## merged2$white
                                                -0.0081049 0.0074323 -1.090
## as.factor(merged2$country.x)Scotland
                                                -0.0166129 0.0046983
                                                                      -3.536
## as.factor(merged2$country.x)Wales
                                                -0.0116276 0.0060403 -1.925
## merged2$EUIntegrationSelf8:merged2$Conchange 0.0009098 0.0001896
                                                                      4.798
##
                                               Pr(>|t|)
```

```
## (Intercept)
                                                0.474898
## merged2$EUIntegrationSelf8
                                                 < 2e-16 ***
## merged2$Conchange
                                                0.007937 **
## merged2$age.x
                                                0.000290 ***
## merged2$gender.xFemale
                                                0.514129
## merged2$white
                                                0.275513
## as.factor(merged2$country.x)Scotland
                                               0.000408 ***
## as.factor(merged2$country.x)Wales
                                                0.054248 .
## merged2$EUIntegrationSelf8:merged2$Conchange 1.62e-06 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.2023 on 14545 degrees of freedom
## (5474 observations deleted due to missingness)
## Multiple R-squared: 0.01722,
                                  Adjusted R-squared: 0.01668
## F-statistic: 31.85 on 8 and 14545 DF, p-value: < 2.2e-16
# From the paper: "A one-point increase in pre-referendum Euroskepticism
# generates a .7 percent increase in the probability of switching loyalties to
# the Conservatives. And the interaction term is positive and significant,
# indicating that Euroskeptic non-Conservatives who perceived an increase in
# Conservative Euroskepticism following the referendum were especially likely to
#join the Conservatives."
# And finally, let's create Table 2, with everything:
stargazer(table2reg, intreg2, intreg2a,
         title = "Euroskepticism and Joining the Conservatives",
          covariate.labels = c("Pre-Referendum Euroskepticism",
                               "Perceived Change in Conservative Euroskepticism",
                               "Age",
                               "Female",
                               "White",
                               "Scotland",
                               "Wales",
                               "Pre-Referendum Euroskepticism: Perceived Change in Conservative Euroskep
                               "Constant"),
          dep.var.labels = "Joined Conservatives",
         no.space = TRUE, star.cutoffs = c(0.05, 0.01, 0.001),
         font.size = "tiny",
         header = FALSE)
# Let's look at the percent switched for various groups of Euroskepticism
# scores:
merge256 <- merged2[merged2$EUIntegrationSelf8 =="5" | merged2$EUIntegrationSelf8 =="6",]
merge278 <- merged2[merged2$EUIntegrationSelf8 =="7" | merged2$EUIntegrationSelf8 =="8",]</pre>
merge2910 <- merged2$EUIntegrationSelf8 =="9" | merged2$EUIntegrationSelf8 =="10",]
mean(merge256$switchtocons,na.rm=TRUE)
```

Table 2: Euroskepticism and Joining the Conservatives

	Dependent variable: Joined Conservatives		
	(1)	(2)	(3)
Pre-Referendum Euroskepticism	0.007*** (0.0005)	0.007*** (0.001)	0.006*** (0.001)
Perceived Change in Conservative Euroskepticism	(0.000)	-0.003* (0.001)	-0.004** (0.001)
Age		(0.00-)	0.0004*** (0.0001)
Female			-0.002 $(0.003)$
White			-0.008 $(0.007)$
Scotland			-0.017*** (0.005)
Wales			-0.012 $(0.006)$
${\bf Pre\text{-}Referendum~Euroskepticism:} {\bf Perceived~Change~in~Conservative~Euroskepticism.}$		0.001*** (0.0002)	0.001*** (0.0002)
Constant	-0.001 (0.003)	0.00004 (0.004)	-0.007 $(0.009)$
Observations	18,517	15,139	14,554
$\mathbb{R}^2$	0.012	0.015	0.017
Adjusted R <sup>2</sup>	0.012	0.015	0.017
Residual Std. Error F Statistic	0.198  (df = 18515) $216.857^{***} \text{ (df} = 1; 18515)$	0.204  (df = 15135) $78.431^{***} \text{ (df} = 3; 15135)$	0.202  (df = 14545) $31.854^{***} \text{ (df} = 8; 14545)$

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

```
mean(merge278$switchtocons,na.rm=TRUE)
```

## ## [1] 0.05036765

Note:

```
mean(merge2910$switchtocons,na.rm=TRUE)
```

## ## [1] 0.06689666

```
# From the paper: "Of those respondents who did not identify as Conservative # before the referendum, 2.8 percent with Euroskepticism scores of 5 or 6, 5.0 # percent with scores of 7 or 8, and 6.7 percent with scores of 9 or 10 joined # the Conservatives. The more Euroskeptic the respondent, the more likely they # were to swing behind the Conservatives following the party's shift in policy # position.
```

# But do strong partisans (e.g. very committed to Conservative) change their policy preferences?

```
# From the paper: "In Figure 1, we look at whether stronger Conservative
# partisans were more likely to become Euroskeptic following the sudden, as-if
# random change in Conservative positioning on Brexit than less staunch
# supporters of the party."

# A respondent's change in Euroskepticism between Waves 8 and 9:
merged$Euroskepticismchange <- merged$EuIntegrationSelf9 - merged$EuIntegrationSelf8

# Let's subset voters; we can run the same regression on each group:
mergestrong <- merged[merged$partyIdStrength.x=="Very strong",]
mergenotstrong <- merged[merged$partyIdStrength.x!="Very strong",]</pre>
```

```
# Let's create Table 3 (independent variable -- perceived increase in
# Conservative Euroskepticism):
intreg3B <- lm(Euroskepticismchange ~ Conchange + gender.x + age.x + white
              + country.x, data = mergestrong)
summary(intreg3B)
##
## Call:
## lm(formula = Euroskepticismchange ~ Conchange + gender.x + age.x +
      white + country.x, data = mergestrong)
##
## Residuals:
      Min
##
               1Q Median
                              3Q
                                    Max
## -9.5686 -0.6377 0.2833 0.7787 10.4630
##
## Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   ## Conchange
                    0.219563
                              0.019680 11.157
                                                <2e-16 ***
## gender.xFemale
                              0.112904 -0.964
                                                0.3354
                   -0.108799
## age.x
                    0.003866
                               0.003788
                                         1.020
                                                0.3077
## white
                   -0.185917
                               0.300076 -0.620
                                                0.5357
## country.xScotland 0.098575
                               0.192116
                                        0.513 0.6080
                              0.244659 -1.323 0.1860
## country.xWales
                   -0.323777
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 1.883 on 1173 degrees of freedom
    (162 observations deleted due to missingness)
## Multiple R-squared: 0.1013, Adjusted R-squared: 0.09666
## F-statistic: 22.03 on 6 and 1173 DF, p-value: < 2.2e-16
intreg3A <- lm(Euroskepticismchange ~ Conchange + gender.x + age.x + white
              + country.x, data = mergenotstrong)
summary(intreg3A)
##
## Call:
## lm(formula = Euroskepticismchange ~ Conchange + gender.x + age.x +
      white + country.x, data = mergenotstrong)
##
## Residuals:
##
       Min
                1Q
                     Median
                                  3Q
                                         Max
## -10.6145 -0.8948 0.3628
                              0.8390 10.8420
##
## Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   ## Conchange
                    0.138610
                               0.010554 13.134 < 2e-16 ***
## gender.xFemale
                   -0.055165
                               0.053711 -1.027 0.304433
## age.x
                    0.006500
                              0.001914
                                        3.396 0.000688 ***
```

```
## white
                     0.093999
                                0.153902 0.611 0.541378
## country.xScotland 0.131062 0.096305 1.361 0.173606
                                0.110594 0.157 0.875561
## country.xWales
                 0.017320
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Residual standard error: 1.882 on 4993 degrees of freedom
    (1185 observations deleted due to missingness)
## Multiple R-squared: 0.03765, Adjusted R-squared: 0.0365
## F-statistic: 32.56 on 6 and 4993 DF, p-value: < 2.2e-16
# And finally, our table:
stargazer(intreg3A, intreg3B,
         title = "Individual Shifts in Euroskepticism",
         no.space = TRUE,
         covariate.labels = c("Perceived Change in Conservative Euroskepticism",
                              "Female",
                              "Age",
                              "White",
                              "Scotland",
                              "Wales",
                              "Constant"),
         dep.var.labels = "Change in Personal Euroskepticism:",
         column.labels = c("Moderate Conservatives",
                             "Very Strong Conservatives"),
         model.numbers = FALSE,
         star.cutoffs = c(0.05, 0.01, 0.001))
```

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu % Date and time: Thu, Apr 08, 2021 - 21:04:44

```
# From the paper: There is a clear, statistically significant, positive
# relationship between Conservative partisans' perception of their party's
# increasing Euroskepticism and their own Euroskepticism. But the size of the
# effect is limited: even for very strong Conservatives, a one-unit increase in
# perceived Conservative Euroskepticism on a ten-point scale yields only a 0.22
# - unit increase in personal Euroskepticism. Unsurprisingly, as the relative
# sizes of the two coefficients in the top row indicate, the effect is stronger
# among Conservatives who described their partisan identity as very strong
# before the referendum.
```

Let's create Figure 1 (which corresponds with Table 3):

```
# First, let's merge Waves 8 and 9:
bigmerge <- merge(BES8, BES9, by = "id")
# And create relevant values:
bigmerge$Euroskepticismchange <- bigmerge$EUIntegrationSelf9 - bigmerge$EUIntegrationSelf8</pre>
```

Table 3: Individual Shifts in Euroskepticism

	Dependent variable:		
	Change in Personal Euroskepticism:		
	Moderate Conservatives	Very Strong Conservatives	
Perceived Change in Conservative Euroskepticism	0.139***	0.220***	
	(0.011)	(0.020)	
Female	-0.055	-0.109	
	(0.054)	(0.113)	
Age	0.006***	0.004	
	(0.002)	(0.004)	
White	0.094	-0.186	
	(0.154)	(0.300)	
Scotland	0.131	0.099	
	(0.096)	(0.192)	
Wales	0.017	-0.324	
	(0.111)	(0.245)	
Constant	$-1.161^{***}$	-0.573	
	(0.178)	(0.340)	
Observations	5,000	1,180	
$\mathbb{R}^2$	0.038	0.101	
Adjusted R <sup>2</sup>	0.036	0.097	
Residual Std. Error	1.882 (df = 4993)	1.883 (df = 1173)	
F Statistic	32.559***(df = 6; 4993)	$22.025^{***}$ (df = 6; 1173)	

*Note:* \*p<0.05; \*\*p<0.01; \*\*\*p<0.001

```
bigmerge$Conchange <- bigmerge$EUIntegrationCon9 - bigmerge$EUIntegrationCon8
# And now, let's subset to 3 groups:
bigmerge$Partisan[bigmerge$partyId8 != "Conservative"] <- "Non-Conservative"
bigmerge$Partisan[bigmerge$partyId8 == "Conservative" & bigmerge$partyIdStrength.x != "Very strong"] <-
bigmerge$Partisan[bigmerge$partyId8 == "Conservative" & bigmerge$partyIdStrength.x == "Very strong"] <-
# And create relevant variables representing the 3 groups:
bigmergenon <- bigmerge[bigmerge$Partisan == "Non-Conservative",]</pre>
bigmergemod<- bigmerge[bigmerge$Partisan == "Moderate Conservative",]</pre>
bigmergever <- bigmerge[bigmerge$Partisan == "Very Strong Conservative",]</pre>
# What percentage of each group switched?
mean(bigmergenon$Conchange, na.rm = TRUE)
## [1] 0.3833084
mean(bigmergemod$Conchange, na.rm = TRUE)
## [1] 0.2486752
mean(bigmergever$Conchange, na.rm = TRUE)
## [1] 0.3314607
mean(bigmergenon$Euroskepticismchang, na.rm = TRUE)
## [1] -0.6839049
mean(bigmergemod$Euroskepticismchang, na.rm = TRUE)
## [1] -0.683277
mean(bigmergever$Euroskepticismchang, na.rm = TRUE)
## [1] -0.5168712
bigmerge$Partisan <- factor(bigmerge$Partisan, levels = c("Non-Conservative",</pre>
                                                           "Moderate Conservative",
                                                           "Very Strong Conservative"))
# Let's make our ggplot:
# How to remove warnings here?
```

```
g <- ggplot(bigmerge, aes(y = Euroskepticismchange, x = Conchange, color = Partisan)) +
    geom_point(size = 0.1) +
    stat_smooth(method = "lm",se = TRUE) +
    theme_bw() +
    xlab("Perceived Change in Conservative Euroskepticism") +
    ylab("Change in Personal Euroskepticism")

# From the paper: "The intensity of Conservative partisanship determined the
# extent to which voters followed the party's evolving position on the EU - or,
# more precisely, their perception of the party's evolving position."</pre>
```

As previously non-Conservative Euroskeptics flocked to the party, what happened to their views on other issues?

```
# From the paper: "We find that joining the Conservatives led voters to update
# their views on economic issues to bring them into line with the positions of
# their new party; party affiliation, we contend, influenced the subsequent
# evolution of voters' policy preferences.
# In particular, the authors examine attitudes around redistribution.
# Let's make Table 4 and the associated Figure 2 (which supports a key
# assumption for us to draw inferences from Table 4):
# Let's start with some cleaning:
BES7 <- BES7 %>%
  mutate(redistSelf = case_when(redistSelf == "Government should try to make incomes equal" ~ 0,
                                redistSelf == "1" ~ 1, redistSelf== "2" ~ 2,
                                redistSelf == "3" ~ 3, redistSelf == "4" ~ 4,
                                redistSelf == "5" ~ 5, redistSelf == "6" ~ 6,
                                redistSelf == "7" ~ 7, redistSelf == "8" ~ 8,
                                redistSelf == "9" ~ 9,
                                redistSelf == "Government should be less concerned about equal incomes"
BES7$redistSelf7 <- BES7$redistSelf
merged2 <- merge(merged2, BES7, by = "id")</pre>
BES11 <- BES11 %>%
  mutate(redistSelf = case_when(redistSelf== "Government should try to make incomes equal" ~ 0,
                                redistSelf == "1" ~ 1, redistSelf== "2" ~ 2,
                                redistSelf == "3" ~ 3, redistSelf == "4" ~ 4,
                                redistSelf == "5" ~ 5, redistSelf == "6" ~ 6,
                                redistSelf == "7" ~ 7, redistSelf == "8" ~ 8,
                                redistSelf == "9" ~ 9,
                                redistSelf == "Government should be less concerned about equal incomes"
BES11$redistSelf11 <- BES11$redistSelf
merged2 <- merge(merged2, BES11, by = "id")</pre>
```

## Warning in merge.data.frame(merged2, BES11, by = "id"): column

```
## names 'wave11.x', 'wave12.x', 'wave13.x', 'wave14.x', 'country.x',
## 'countryOfBirth.x', 'turnoutUKGeneral.x', 'generalElectionVote.x',
## 'partyIdStrength.x', 'partyId.x', 'partyIdSqueeze.x', 'starttime.x',
## 'endtime.x', 'mii.x', 'bestOnMII.x', 'euRefVote.x', 'britishness.x',
## 'scottishness.x', 'welshness.x', 'englishness.x', 'europeanness.x',
## 'likeCorbyn.x', 'likeFarron.x', 'likeSturgeon.x', 'likeWood.x',
## 'likeFarage.x', 'goodTimePurchase.x', 'riskPoverty.x', 'riskUnemployment.x',
## 'likeCon.x', 'likeLab.x', 'likeLD.x', 'likeSNP.x', 'likePC.x', 'likeUKIP.x',
## 'likeGrn.x', 'changeEconomy.x', 'EUIntegrationSelf.x', 'EUIntegrationCon.x',
## 'EUIntegrationLab.x', 'EUIntegrationLD.x', 'EUIntegrationSNP.x',
## 'EUIntegrationPC.x', 'EUIntegrationUKIP.x', 'EUIntegrationGreen.x',
## 'antiIntellectual.x', 'efficacyUnderstand.x', 'efficacyTooMuchEffort.x',
## 'efficacyNotUnderstand.x', 'efficacyPolCare.x', 'efficacyNoMatter.x',
## 'leftRight.x', 'lrCon.x', 'lrLab.x', 'lrLD.x', 'lrUKIP.x', 'lrSNP.x', 'lrPC.x',
## 'lrgreens.x', 'satDemUK.x', 'satDemScot.x', 'satDemWales.x', 'satDemEng.x',
## 'immigSelf.x', 'immigCon.x', 'immigLab.x', 'immigLD.x', 'immigSNP.x',
## 'immigPC.x', 'immigUKIP.x', 'immigGreen.x', 'ptvCon.x', 'ptvLab.x',
## 'ptvLD.x', 'ptvSNP.x', 'ptvPC.x', 'ptvUKIP.x', 'ptvGrn.x', 'conUnited.x',
## 'labUnited.x', 'ldUnited.x', 'snpUnited.x', 'pcUnited.x', 'ukipUnited.x',
## 'grnUnited.x', 'euID.x', 'euID1.x', 'euID2.x', 'euID3.x', 'euID4.x',
## 'euID6.x', 'euID7.x', 'age.x', 'w10full.x', 'w11full.x', 'disability.x',
## 'edlevel.x', 'ageGroup.x', 'euRefLA.x', 'onscode.x', 'headHouseholdPast.x',
## 'fatherNumEmployees.x', 'motherNumEmployees.x', 'gender.x', 'marital.x',
## 'housing.x', 'gor.x', 'profile_education_age.x', 'profile_lea.x',
## 'profile_oslaua.x', 'profile_gross_personal.x', 'profile_household_children.x',
## 'profile_newspaper.x', 'profile_past_vote_2005.x', 'profile_past_vote_2010.x',
## 'profile_religion.x', 'profile_religion_denom.x', 'profile_pcon.x',
## 'profile_past_vote_2017.x', 'profile_turnout_2017.x',
## 'profile_past_vote_2015.x', 'profile_turnout_2015.x', 'profile_eurefvote.x',
## 'personality_agreeableness.x', 'personality_conscientiousness.x',
## 'personality_extraversion.x', 'personality_neuroticism.x',
## 'personality_openness.x', 'mii_cat.x', 'LRAL_mii_cat.x', 'small_mii_cat.x',
## 'wave11.y', 'wave12.y', 'wave13.y', 'wave14.y', 'country.y', 'countryOfBirth.y',
## 'turnoutUKGeneral.y', 'generalElectionVote.y', 'partyIdStrength.y', 'partyId.y',
## 'partyIdSqueeze.y', 'w10full.y', 'starttime.y', 'endtime.y', 'mii.y',
## 'bestOnMII.y', 'euRefVote.y', 'britishness.y', 'scottishness.y', 'welshness.y',
## 'englishness.y', 'europeanness.y', 'likeCorbyn.y', 'likeFarron.y',
## 'likeSturgeon.y', 'likeWood.y', 'likeFarage.y', 'likeCon.y', 'likeLab.y',
## 'likeLD.y', 'likeSNP.y', 'likePC.y', 'likeUKIP.y', 'likeGrn.y', 'conUnited.y',
## 'labUnited.y', 'ldUnited.y', 'snpUnited.y', 'pcUnited.y', 'ukipUnited.y',
## 'grnUnited.y', 'goodTimePurchase.y', 'riskPoverty.y', 'riskUnemployment.y',
## 'antiIntellectual.y', 'efficacyUnderstand.y', 'efficacyTooMuchEffort.y',
## 'efficacyNotUnderstand.y', 'efficacyPolCare.y', 'efficacyNoMatter.y',
## 'EUIntegrationSelf.y', 'EUIntegrationCon.y', 'EUIntegrationLab.y',
## 'EUIntegrationLD.y', 'EUIntegrationSNP.y', 'EUIntegrationPC.y',
## 'EUIntegrationUKIP.y', 'EUIntegrationGreen.y', 'satDemUK.y', 'satDemScot.y',
## 'satDemWales.y', 'satDemEng.y', 'euID.y', 'euID1.y', 'euID2.y', 'euID3.y',
## 'euID4.y', 'euID6.y', 'euID7.y', 'immigSelf.y', 'immigCon.y', 'immigLab.y',
## 'immigLD.y', 'immigSNP.y', 'immigPC.y', 'immigUKIP.y', 'immigGreen.y',
## 'ptvCon.y', 'ptvLab.y', 'ptvLD.y', 'ptvSNP.y', 'ptvPC.y', 'ptvUKIP.y',
## 'ptvGrn.y', 'changeEconomy.y', 'gor.y', 'leftRight.y', 'lrCon.y', 'lrLab.y',
## 'lrLD.y', 'lrUKIP.y', 'lrSNP.y', 'lrPC.y', 'lrgreens.y', 'age.y', 'w11full.y',
## 'disability.y', 'edlevel.y', 'ageGroup.y', 'euRefLA.y', 'onscode.y',
## 'headHouseholdPast.y', 'fatherNumEmployees.y', 'motherNumEmployees.y',
```

```
## 'gender.y', 'marital.y', 'housing.y', 'profile_newspaper.y',
## 'profile_religion.y', 'profile_education_age.y', 'profile_lea.y',
## 'profile_oslaua.y', 'profile_gross_personal.y', 'profile_household_children.y',
## 'profile_past_vote_2005.y', 'profile_past_vote_2010.y',
## 'profile_religion_denom.y', 'profile_pcon.y', 'profile_past_vote_2017.y',
## 'profile_turnout_2017.y', 'profile_past_vote_2015.y',
## 'profile_turnout_2015.y', 'profile_eurefvote.y', 'personality_agreeableness.y',
## 'personality_conscientiousness.y', 'personality_extraversion.y',
## 'personality_neuroticism.y', 'personality_openness.y', 'mii_cat.y',
## 'LRAL_mii_cat.y', 'small_mii_cat.y' are duplicated in the result
# From the paper: "We now estimate the effect of joining the Conservatives on changes in
# attitudes towards redistribution. Our dependent variable, "Increase in
# Opposition to Redistribution," is the level of opposition to redistribution in
# Wave 11, conducted between April 2017 and May 2017, minus the level of
# opposition to redistribution in Wave 7 (conducted between April 2016 and May
# 2016), the most recent post- and pre-referendum survey waves respectively that
# ask about redistribution preferences." (A higher value suggests more
# opposition to redistribution.)
merged2$redistchange <- merged2$redistSelf11 - merged2$redistSelf7
# From the paper: "We find a positive association between joining the
# Conservatives and increased opposition to redistribution: as column 1 shows,
# affiliating with the Conservative Party is associated with more than a
# half-point increase in opposition to redistribution on a ten-point scale.
table4reg <- lm(redistchange ~ switchtocons + white + age.x + gender.x +
                 country.x, data = merged2)
summary(table4reg)
##
## Call:
## lm(formula = redistchange ~ switchtocons + white + age.x + gender.x +
      country.x, data = merged2)
##
## Residuals:
       Min
                 10 Median
                                   30
## -10.4905 -0.9681
                      0.0602 1.0833 10.2411
## Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
                    0.2631
## (Intercept)
## switchtocons
                    0.542210
                               0.133255 4.069 4.76e-05 ***
                                         1.506 0.1321
## white
                    0.179234
                               0.119019
                    -0.001427
                                0.001798 -0.794
                                                  0.4274
## age.x
## gender.xFemale
                    -0.008770
                                0.052214 -0.168 0.8666
                                0.070767 -2.295 0.0217 *
## country.xScotland -0.162438
## country.xWales
                    -0.050792
                                0.090754 -0.560 0.5757
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Residual standard error: 2.477 on 9058 degrees of freedom
   (1889 observations deleted due to missingness)
```

```
## Multiple R-squared: 0.002745,
                                 Adjusted R-squared: 0.002084
## F-statistic: 4.155 on 6 and 9058 DF, p-value: 0.0003558
# People who were part of UKIP (should see negligible change, as discussed in
# the paper, as UKIP was already very opposed to redistribution):
regUKIP <- lm(redistchange ~ switchtocons + white + age.x +gender.x
             + country.x, data = merged2,
             partyId8 == "United Kingdom Independence Party (UKIP)")
summary(regUKIP)
##
## Call:
## lm(formula = redistchange ~ switchtocons + white + age.x + gender.x +
      country.x, data = merged2, subset = partyId8 == "United Kingdom Independence Party (UKIP)")
##
## Residuals:
       Min
                 1Q
                     Median
                                   3Q
## -10.7234 -1.3785 -0.2627 1.6292
                                        9.8274
## Coefficients:
                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                    -0.517873 0.630651 -0.821
                                                 0.4118
## switchtocons
                    0.041980
                                0.285066
                                         0.147
                                                  0.8830
## white
                     0.359912
                                0.527694
                                         0.682
                                                 0.4954
## age.x
                    0.008190
                                0.007284
                                         1.124 0.2611
## gender.xFemale
                     0.002993
                                0.191379
                                         0.016 0.9875
                                0.467920 -1.009 0.3130
## country.xScotland -0.472307
## country.xWales
                     0.536402
                                0.312302
                                         1.718 0.0862 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 2.906 on 972 degrees of freedom
    (190 observations deleted due to missingness)
## Multiple R-squared: 0.006683,
                                   Adjusted R-squared: 0.0005519
## F-statistic: 1.09 on 6 and 972 DF, p-value: 0.3663
# People who were not part of UKIP -- from the paper: "the effect of joining the
# Conservatives on redistributive attitudes should be stronger among respondents
# who were not previously members of UKIP."
regnonUKIP <- lm(redistchange ~ switchtocons + white + age.x +gender.x
                + country.x, data = merged2,
                partyId8 != "United Kingdom Independence Party (UKIP)")
summary(regnonUKIP)
##
## Call:
## lm(formula = redistchange ~ switchtocons + white + age.x + gender.x +
       country.x, data = merged2, subset = partyId8 != "United Kingdom Independence Party (UKIP)")
##
## Residuals:
             1Q Median
##
      Min
                             3Q
                                      Max
```

```
## Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                    -0.0936553 0.1458419 -0.642 0.520781
## switchtocons
                    0.6053573  0.1580787  3.829  0.000129 ***
## white
                     0.1548143 0.1203701 1.286 0.198427
                     -0.0032839 0.0018430 -1.782 0.074816 .
## age.x
## gender.xFemale
                    0.0001106 0.0538628 0.002 0.998362
## country.xScotland -0.1094347 0.0707148 -1.548 0.121769
## country.xWales
                    -0.1124235 0.0942015 -1.193 0.232734
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## Residual standard error: 2.415 on 8079 degrees of freedom
     (1699 observations deleted due to missingness)
## Multiple R-squared: 0.002817, Adjusted R-squared: 0.002077
## F-statistic: 3.804 on 6 and 8079 DF, p-value: 0.0008671
# Let's create Table 4:
stargazer(table4reg, regnonUKIP, regUKIP, title = "Joining the Conservatives and
          Opposition to Redistribution", no.space = TRUE,
           covariate.labels = c("Joined Conservatives",
                               "White",
                               "Age",
                               "Female",
                               "Scotland",
                               "Wales",
                               "Constant"),
          dep.var.labels = "Change in Opposition to Redistribution",
          column.labels
                         = c("Overall",
                              "Non-UKIP",
                              "UKIP"),
         model.numbers = FALSE,
          star.cutoffs = c(0.05, 0.01, 0.001))
% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Thu, Apr 08, 2021 - 21:04:47
# Let's make the corresponding Figure 2:
BES7 <- BES7 %>%
 mutate(redistCon = case_when(redistCon== "Government should try to make incomes equal" ~ 0,
                               redistCon == "1" ~ 1, redistCon== "2" ~ 2,
                               redistCon == "3" ~ 3, redistCon == "4" ~ 4,
                               redistCon == "5" ~ 5, redistCon == "6" ~ 6,
                               redistCon == "7" ~ 7, redistCon == "8" ~ 8,
                               redistCon == "9" ~ 9,
                               redistCon == "Government should be less concerned about equal incomes" ~
BES7 <- BES7 %>%
  mutate(redistGreen = case_when(redistGreen == "Government should try to make incomes equal" ~ 0,
                                 redistGreen == "1" ~ 1, redistGreen== "2" ~ 2,
```

## -9.9364 -0.9726 0.1030 1.1456 10.2577

##

Table 4: Joining the Conservatives and Opposition to Redistribution

		11		
	Dependent variable:			
	Change in Opposition to Redistribution			
	Overall	Non-UKIP	UKIP	
Joined Conservatives	0.542***	0.605***	0.042	
	(0.133)	(0.158)	(0.285)	
White	0.179	0.155	0.360	
	(0.119)	(0.120)	(0.528)	
Age	-0.001	-0.003	0.008	
	(0.002)	(0.002)	(0.007)	
Female	-0.009	0.0001	0.003	
	(0.052)	(0.054)	(0.191)	
Scotland	$-0.162^{*}$	-0.109	-0.472	
	(0.071)	(0.071)	(0.468)	
Wales	$-0.05\hat{1}$	-0.112	$0.536^{'}$	
	(0.091)	(0.094)	(0.312)	
Constant	-0.161	-0.094	-0.518	
	(0.144)	(0.146)	(0.631)	
Observations	9,065	8,086	979	
$\mathbb{R}^2$	0.003	0.003	0.007	
Adjusted R <sup>2</sup>	0.002	0.002	0.001	
Residual Std. Error	2.477 (df = 9058)	2.415 (df = 8079)	2.906 (df = 972)	
F Statistic	$4.155^{***} (df = 6; 9058)$	$3.804^{***} (df = 6; 8079)$	$1.090 \ (df = 6; 972)$	

Note:

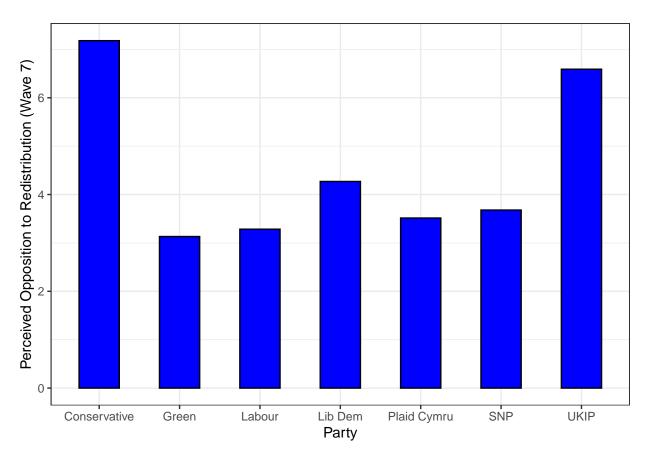
\*p<0.05; \*\*p<0.01; \*\*\*p<0.001

```
redistGreen == "3" ~ 3, redistGreen == "4" ~ 4,
                                 redistGreen == "5" ~ 5, redistGreen == "6" ~ 6,
                                 redistGreen == "7" ~ 7, redistGreen == "8" ~ 8,
                                 redistGreen == "9" ~ 9,
                                 redistGreen == "Government should be less concerned about equal income
BES7 <- BES7 %>%
  mutate(redistLab = case_when(redistLab == "Government should try to make incomes equal" ~ 0,
                               redistLab == "1" ~ 1, redistLab== "2" ~ 2,
                               redistLab == "3" ~ 3, redistLab == "4" ~ 4,
                               redistLab == "5" ~ 5, redistLab == "6" ~ 6,
                               redistLab == "7" ~ 7, redistLab == "8" ~ 8,
                               redistLab == "9" ~ 9,
                               redistLab == "Government should be less concerned about equal incomes" ~
BES7 <- BES7 %>%
  mutate(redistLD = case_when(redistLD== "Government should try to make incomes equal" ~ 0,
                              redistLD == "1" ~ 1, redistLD== "2" ~ 2,
                              redistLD == "3" ~ 3, redistLD == "4" ~ 4,
                              redistLD == "5" ~ 5, redistLD == "6" ~ 6,
                              redistLD == "7" ~ 7, redistLD == "8" ~ 8,
                              redistLD == "9" ~ 9,
                              redistLD == "Government should be less concerned about equal incomes" ~ 1
BES7 <- BES7 %>%
  mutate(redistPC = case_when(redistPC== "Government should try to make incomes equal" ~ 0,
                              redistPC == "1" ~ 1, redistPC== "2" ~ 2,
                              redistPC == "3" ~ 3, redistPC == "4" ~ 4,
                              redistPC == "5" ~ 5, redistPC == "6" ~ 6,
                              redistPC == "7" ~ 7, redistPC == "8" ~ 8,
                              redistPC == "9" ~ 9,
                              redistPC == "Government should be less concerned about equal incomes" ~ 1
BES7 <- BES7 %>%
  mutate(redistSNP = case_when(redistSNP== "Government should try to make incomes equal" ~ 0,
                               redistSNP == "1" ~ 1, redistSNP== "2" ~ 2,
                               redistSNP == "3" ~ 3, redistSNP == "4" ~ 4,
                               redistSNP == "5" ~ 5, redistSNP == "6" ~ 6,
                               redistSNP == "7" ~ 7, redistSNP == "8" ~ 8,
                               redistSNP == "9" ~ 9,
                               redistSNP == "Government should be less concerned about equal incomes" ~
BES7 <- BES7 %>%
  mutate(redistUKIP = case_when(redistUKIP== "Government should try to make incomes equal" ~ 0,
                                redistUKIP == "1" ~ 1, redistUKIP== "2" ~ 2,
                                redistUKIP == "3" ~ 3, redistUKIP == "4" ~ 4,
                                redistUKIP == "5" ~ 5, redistUKIP == "6" ~ 6,
                                redistUKIP == "7" ~ 7, redistUKIP == "8" ~ 8,
                                redistUKIP == "9" ~ 9, redistUKIP == "Government should be less concern
# Find average perceived opposition to redistribution by party for Wave 7:
con7 <- mean(BES7$redistCon, na.rm=TRUE)</pre>
```

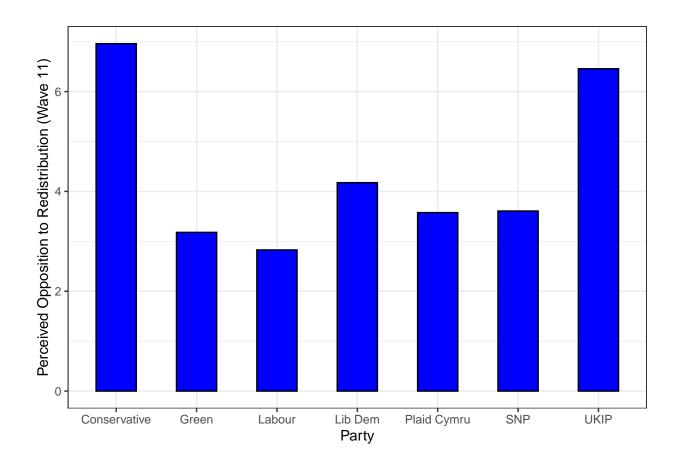
```
green7 <- mean(BES7$redistGreen, na.rm=TRUE)</pre>
lab7 <- mean(BES7$redistLab, na.rm=TRUE)</pre>
ld7 <- mean(BES7$redistLD, na.rm=TRUE)</pre>
pc7 <- mean(BES7$redistPC, na.rm=TRUE)</pre>
snp7 <- mean(BES7$redistSNP, na.rm=TRUE)</pre>
ukip7 <- mean(BES7$redistUKIP, na.rm=TRUE)</pre>
# And now the same for Wave 11:
BES11 <- BES11 %>%
  mutate(redistCon = case_when(redistCon == "Government should try to make incomes equal" ~ 0,
                               redistCon == "1" ~ 1, redistCon== "2" ~ 2,
                                redistCon == "3" ~ 3, redistCon == "4" ~ 4,
                               redistCon == "5" ~ 5, redistCon == "6" ~ 6,
                               redistCon == "7" ~ 7, redistCon == "8" ~ 8,
                               redistCon == "9" ~ 9,
                                redistCon == "Government should be less concerned about equal incomes" ~
BES11 <- BES11 %>%
  mutate(redistGreen = case_when(redistGreen == "Government should try to make incomes equal" ~ 0,
                                  redistGreen == "1" ~ 1, redistGreen== "2" ~ 2,
                                 redistGreen == "3" ~ 3, redistGreen == "4" ~ 4,
                                 redistGreen == "5" ~ 5, redistGreen == "6" ~ 6,
                                 redistGreen == "7" ~ 7, redistGreen == "8" ~ 8,
                                 redistGreen == "9" ~ 9,
                                 redistGreen == "Government should be less concerned about equal income
BES11 <- BES11 %>%
  mutate(redistLab = case_when(redistLab == "Government should try to make incomes equal" ~ 0,
                                redistLab == "1" ~ 1, redistLab== "2" ~ 2,
                               redistLab == "3" ~ 3, redistLab == "4" ~ 4,
                                redistLab == "5" ~ 5, redistLab == "6" ~ 6,
                                redistLab == "7" ~ 7, redistLab == "8" ~ 8,
                                redistLab == "9" ~ 9,
                                redistLab == "Government should be less concerned about equal incomes" ~
BES11 <- BES11 %>%
  mutate(redistLD = case_when(redistLD== "Government should try to make incomes equal" ~ 0,
                               redistLD == "1" ~ 1, redistLD== "2" ~ 2,
                               redistLD == "3" ~ 3, redistLD == "4" ~ 4,
                              redistLD == "5" ~ 5,redistLD == "6" ~ 6,
                              redistLD == "7" ~ 7, redistLD == "8" ~ 8,
                               redistLD == "9" ~ 9,
                               redistLD == "Government should be less concerned about equal incomes" ~ 1
BES11 <- BES11 %>%
  mutate(redistPC = case_when(redistPC== "Government should try to make incomes equal" ~ 0,
                              redistPC == "1" ~ 1, redistPC== "2" ~ 2,
                               redistPC == "3" ~ 3, redistPC == "4" ~ 4,
                              redistPC == "5" ~ 5, redistPC == "6" ~ 6,
                               redistPC == "7" ~ 7, redistPC == "8" ~ 8,
                               redistPC == "9" ~ 9,
                               redistPC == "Government should be less concerned about equal incomes" ~ 1
```

```
BES11 <- BES11 %>%
  mutate(redistSNP = case_when(redistSNP== "Government should try to make incomes equal" ~ 0,
                                redistSNP == "1" ~ 1, redistSNP== "2" ~ 2,
                                redistSNP == "3" ~ 3, redistSNP == "4" ~ 4,
                                redistSNP == "5" ~ 5, redistSNP == "6" ~ 6,
                                redistSNP == "7" ~ 7, redistSNP == "8" ~ 8,
                                redistSNP == "9" ~ 9,
                                redistSNP == "Government should be less concerned about equal incomes" ~
BES11 <- BES11 %>%
  mutate(redistUKIP = case_when(redistUKIP== "Government should try to make incomes equal" ~ 0,
                                 redistUKIP == "1" ~ 1, redistUKIP== "2" ~ 2,
                                 redistUKIP == "3" ~ 3, redistUKIP == "4" ~ 4,
                                 redistUKIP == "5" ~ 5, redistUKIP == "6" ~ 6,
                                 redistUKIP == "7" ~ 7, redistUKIP == "8" ~ 8,
                                 redistUKIP == "9" ~ 9,
                                 redistUKIP == "Government should be less concerned about equal incomes"
# Find average perceived opposition to redistribution by party for Wave 11:
con11 <- mean(BES11$redistCon, na.rm = TRUE)</pre>
green11 <- mean(BES11$redistGreen, na.rm = TRUE)</pre>
lab11 <- mean(BES11$redistLab, na.rm = TRUE)</pre>
ld11 <- mean(BES11$redistLD, na.rm = TRUE)</pre>
pc11 <- mean(BES11$redistPC, na.rm = TRUE)</pre>
snp11 <- mean(BES11$redistSNP, na.rm = TRUE)</pre>
ukip11 <- mean(BES11$redistUKIP, na.rm = TRUE)</pre>
\#\# Create self-constructed dataframe of perception scores based on above code):
party7 <- c("Conservative", "Green", "Labour", "Lib Dem", "Plaid Cymru", "SNP",
           "UKIP")
perceived_opp7 <- c(con7, green7, lab7, ld7, pc7, snp7, ukip7)</pre>
redistribution7 <- data.frame(party7, perceived_opp7)</pre>
# And finally, let's make Figure 2:
# Plot Wave 7 values of opposition to redistribution by party:
g7 <- ggplot(redistribution7, aes(y = perceived_opp7,
                          x = party7)) +
  geom_bar(stat = "identity", width = 0.5, color = "black", fill = "blue") +
  stat_smooth(method ="lm", se = FALSE) +
 theme_bw() +
  xlab("Party") +
  ylab("Perceived Opposition to Redistribution (Wave 7)")
g7
```

## 'geom\_smooth()' using formula 'y ~ x'



## 'geom\_smooth()' using formula 'y ~ x'



## But has changing partisanship influenced actual voting?

```
# From the paper: "Although we cannot identify causality for changes in electoral voting, we
# analyze actual voting behavior to examine the broader implications of the
# Brexit-induced change in Conservative positioning. We assess the relationship
# between Euroskepticism and voting in the 2015 and 2017 elections by drawing on
# data from British Election Study Wave 6 (conducted in May 2015, in the
# immediate aftermath of the 2015 election) and Wave 13 (conducted after the
# June 2017 election)."
# Let's start with some cleaning:
# Let's begin creating a race variable:
BES6$white <- ifelse(BES6$profile_ethnicity == "White British" | BES6$profile_ethnicity == "Any other w
# Let's also recode EU integration:
BES6 <- BES6 %>%
  mutate(EUIntegrationCon = case_when(EUIntegrationCon == "Unite fully with the European Union" ~ 0,
                                      EUIntegrationCon == "1" ~ 1, EUIntegrationCon == "2" ~ 2,
                                      EUIntegrationCon == "3" ~ 3, EUIntegrationCon == "4" ~ 4,
                                      EUIntegrationCon == "5" ~ 5, EUIntegrationCon == "6" ~ 6,
                                      EUIntegrationCon == "7" ~ 7, EUIntegrationCon == "8" ~ 8,
```

```
EUIntegrationCon == "9" ~ 9,
                                      EUIntegrationCon == "Protect our independence" ~ 10))
BES6 <- BES6 %>%
  mutate(EUIntegrationLab = case_when(EUIntegrationLab == "Unite fully with the European Union" ~ 0,
                                      EUIntegrationLab == "1" ~ 1, EUIntegrationLab == "2" ~ 2,
                                      EUIntegrationLab == "3" ~ 3, EUIntegrationLab == "4" ~ 4,
                                      EUIntegrationLab == "5" ~ 5, EUIntegrationLab == "6" ~ 6,
                                      EUIntegrationLab == "7" ~ 7, EUIntegrationLab == "8" ~ 8,
                                      EUIntegrationLab == "9" ~ 9,
                                      EUIntegrationLab == "Protect our independence" ~ 10))
BES6$generalElectionVote15 <- BES6$generalElectionVote
BES6$EUIntegrationLab15 <- BES6$EUIntegrationLab
BES6$EUIntegrationCon15 <- BES6$EUIntegrationCon
BES6 <- BES6 %>%
  mutate(EUIntegrationSelf = case_when(EUIntegrationSelf == "Unite fully with the European Union" ~ 0,
                                       EUIntegrationSelf == "1" ~ 1, EUIntegrationSelf == "2" ~ 2,
                                       EUIntegrationSelf == "3" ~ 3, EUIntegrationSelf == "4" ~ 4,
                                       EUIntegrationSelf == "5" ~ 5, EUIntegrationSelf == "6" ~ 6,
                                       EUIntegrationSelf == "7" ~ 7, EUIntegrationSelf == "8" ~ 8,
                                       EUIntegrationSelf == "9" ~ 9,
                                       EUIntegrationSelf == "Protect our independence" ~ 10))
BES6$EUIntegrationSelf6 <- BES6$EUIntegrationSelf
# Conservative vote variable:
BES6$Convote <- ifelse(BES6$generalElectionVote15 == "Conservative", 1, 0)
# Conservative subset:
BES6con <- BES6[BES6$Convote == 1,]
# Non-Conservative subset:
BES6notcon <- BES6[BES6$Convote == 0,]
# Vote choice variable:
BES13$generalElectionVote17 <- BES13$generalElectionVote
# Once again, recode integration values -- this time, for Wave 13:
BES13 <- BES13 %>%
  mutate(EUIntegrationSelf = case_when(EUIntegrationSelf == "Unite fully with the European Union"~ 0,
                                       EUIntegrationSelf == "1" ~ 1, EUIntegrationSelf == "2" ~ 2,
                                       EUIntegrationSelf == "3" ~ 3, EUIntegrationSelf == "4" ~ 4,
                                       EUIntegrationSelf == "5" ~ 5, EUIntegrationSelf == "6" ~ 6,
                                       EUIntegrationSelf == "7" ~ 7, EUIntegrationSelf == "8" ~ 8,
                                       EUIntegrationSelf == "9" ~ 9,
```

```
EUIntegrationSelf == "Protect our independence" ~ 10))
BES13$EUIntegrationSelf13 <- BES13$EUIntegrationSelf
BES13 <- BES13 %>%
  mutate(EUIntegrationCon = case_when(EUIntegrationCon == "Unite fully with the European Union" ~ 0,
                                      EUIntegrationCon == "1" ~ 1, EUIntegrationCon == "2" ~ 2,
                                      EUIntegrationCon == "3" ~ 3, EUIntegrationCon == "4" ~ 4,
                                      EUIntegrationCon == "5" ~ 5, EUIntegrationCon == "6" ~ 6,
                                      EUIntegrationCon == "7" ~ 7, EUIntegrationCon == "8" ~ 8,
                                      EUIntegrationCon == "9" ~ 9,
                                      EUIntegrationCon == "Protect our independence" ~ 10))
BES13 <- BES13 %>%
  mutate(EUIntegrationLab = case_when(EUIntegrationLab == "Unite fully with the European Union" ~ 0,
                                      EUIntegrationLab == "1" ~ 1, EUIntegrationLab == "2" ~ 2,
                                      EUIntegrationLab == "3" ~ 3, EUIntegrationLab == "4" ~ 4,
                                      EUIntegrationLab == "5" ~ 5, EUIntegrationLab == "6" ~ 6,
                                      EUIntegrationLab == "7" ~ 7, EUIntegrationLab == "8" ~ 8,
                                      EUIntegrationLab == "9" ~ 9,
                                      EUIntegrationLab == "Protect our independence" ~ 10))
BES13$generalElectionVote17 <- BES13$generalElectionVote
BES13$EUIntegrationLab17 <- BES13$EUIntegrationLab
BES13$EUIntegrationCon17 <- BES13$EUIntegrationCon</pre>
# Merge the people who voted Con in 2015:
BES13con <- merge(BES6con, BES13, by = "id")
BES13con$Conchange <- BES13con$EUIntegrationCon17 - BES13con$EUIntegrationCon15
BES13con$voteswitcher <- ifelse(BES13con$generalElectionVote17 != BES13con$generalElectionVote15, 1, 0
# Run the regressions we'll include in Table 6 (below)!
# From the paper: "We first examine survey respondents who reported voting for
# the Conservatives in the 2015 election. In Table 5, we test whether a
# Conservative voter's level of Euroskepticism in 2015 is related to the
# probability the voter decides to back the Conservatives in 2017.
GG <- lm(voteswitcher ~ EUIntegrationSelf6, data = BES13con)
HH <- lm(voteswitcher ~ EUIntegrationSelf6 * Conchange, data = BES13con)</pre>
II <- lm(voteswitcher ~ EUIntegrationSelf6 * Conchange + age + gender.x +
           white + country.x, data = BES13con)
stargazer(GG, HH, II,
          title = "Euroskepticism and Defecting from Conservatives",
          no.space = TRUE,
          covariate.labels = c("2015 Euroskepticism",
                               "Perceived Change in Conservative Euroskepticism",
                               "Female",
                               "White",
                               "Scotland",
                               "Wales",
```

Table 5: Euroskepticism and Defecting from Conservatives

	Dependent variable:		
	Defected from Conservatives		
	(1)	(2)	(3)
2015 Euroskepticism	-0.029***	-0.031***	-0.026***
	(0.003)	(0.003)	(0.003)
Perceived Change in Conservative Euroskepticism	•	0.009	0.010
		(0.008)	(0.008)
Age			-0.004****
			(0.001)
Female			0.023
			(0.015)
White			-0.020
			(0.041)
Scotland			$-0.053^*$
			(0.026)
Wales			0.024
			(0.027)
Interaction		-0.001	-0.001
		(0.001)	(0.001)
Constant	$0.358^{***}$	0.362***	$0.608^{***}$
	(0.023)	(0.028)	(0.053)
Observations	2,142	1,902	1,902
$R^2$	0.047	0.059	0.096
Adjusted $R^2$	0.047	0.058	0.092
Residual Std. Error	0.332 (df = 2140)	0.321 (df = 1898)	0.315 (df = 1893)
F Statistic	$105.620^{***} (df = 1; 2140)$	$39.927^{***} (df = 3; 1898)$	$25.150^{***} (df = 8; 189)$

Note: \*p<0.05; \*\*p<0.01; \*\*\*p<0.00