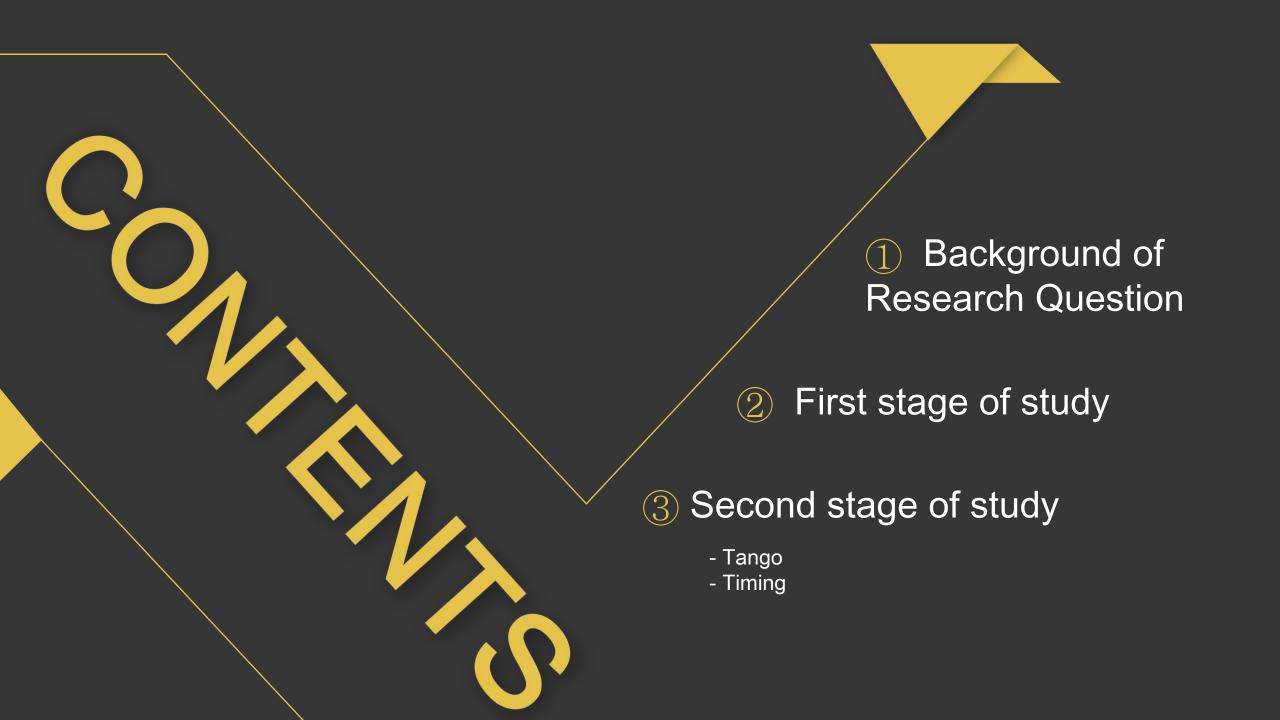
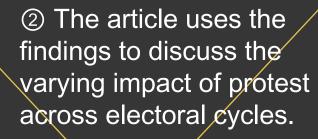
Movement versus Party: The Electoral Effects of Anti-Far Right Protests in Greece doi:10.1017/S0003055423000588

Replication Project
Daijin Zhou
23364635



Background of Research Question

① The way social protest affects electoral outcomes remains a lacuna. This article helps fill this gap by examining how social protest against far right actors affects their electoral standing.







③ The research is divided into two phases. At the first stage of our statistical modeling, linear regression models were used to explain the electoral results of the GD per municipality, for each national election beginning May 2012.At the second stage of study, they investigated more refined models, to test the key protest dynamics of tango and timing, which we expect drive the electoral results of the GD.

First stage of study

RQ

How do social protests against far right actors affect their electoral standing?



H0: Social protests against far right actors do NOT affect "electoral results of the GD.

H1: Social protests against far right actors affect "electoral results of the GD.

Variable description

- Dependent variable: the main dependent variable (DV) is the electoral results of GD, measured as the percentage of votes received by the GD per municipality.
- Independent variable: the main IV is the trichotomous variable of anti-far right protest described above.



Replication

```
# Table I: Basic linear models explaining electoral results of the GD
      (Regions as random effects; DV is the electoral results)
2 lmer12oMay <- lmer(ekloges_PERCENTAGE_May_2012_GD~
    PERCENTAGE_2009_GD + N_AntifaEvent_notzero2_Oc09_May12 + avg_age
    + log_population + prop_ksenoi + (1|code_perif), data=dta)
3 lmer12o <- lmer (ekloges_PERCENTAGE_Jun_2012_GD~
                                                       ekloges_
    PERCENTAGE_2009_GD + N_AntifaEvent_notzero2_Oc09_Ju12 + avg_
     age + log_population + prop_ksenoi + (1|code_perif), data=dta)
4 lmer150 <-- lmer(ekloges_PERCENTAGE_Jan_2015_GD ~ ekloges_PERCENTAGE_
     Jun_2012_GD + N_AntifaEvent_notzero2_Ju12_Ja15 + avg_age +
     log_population + prop_ksenoi + (1|code_perif), data=dta)
5 lmer_15So <- lmer(ekloges_PERCENTAGE_Sep_2015_GD ~ ekloges_
    PERCENTAGE_Jan_2015_GD + N_AntifaEvent_notzero2_Ja15_Sp15 + avg_
     age + log_population + prop_ksenoi + (1|code_perif), data=dta)
6 lmer190 <- lmer (ekloges_PERCENTAGE_Jul_2019_GD ~ ekloges_PERCENTAGE_
     Sep_2015_GD + N_AntifaEvent_notzero2_Sp15_Ju19 + avg_age +
     log_population + prop_ksenoi + (1|code_perif), data=dta)
7 tab_model(lmer12oMay, lmer12o, lmer15o, lmer_15So, lmer19o)
s lmer12oMay <- NULL; lmer12o <- NULL; lmer15o <- NULL; lmer_15So <-
    NULL; lmer190 <- NULL # housekeeping
```

Codes for replication

| | ekloges_PER | CENTAGE_May_ | 2012_GD | ekloges_PER | CENTAGE_Jun_ | 2012_GD | ekloges_PER | CENTAGE_Jan_ | _2015_GD | ekloges_PER | CENTAGE_Sep_ | _2015_GD | ekloges_PER | CENTAGE_Jul_ | 2019_GD |
|--|-----------------|---------------|---------|-----------------|---------------|---------|-----------------|---------------|----------|-----------------|--------------|----------|----------------|--------------|---------|
| Predictors | Estimates | CI | p | Estimates | CI | p | Estimates | CI | p | Estimates | CI | p | Estimates | CI | p |
| (Intercept) | 5.59 | 1.04 - 10.13 | 0.016 | 5.47 | 1.58 - 9.36 | 0.006 | -3.45 | -5.601.30 | 0.002 | 3.20 | 1.15 - 5.25 | 0.002 | 1.08 | -0.14 - 2.29 | 0.082 |
| ekloges PERCENTAGE 2009 GD | 5.68 | 3.77 - 7.58 | <0.001 | 5.38 | 3.75 – 7.02 | <0.001 | | | | | | | | | |
| N AntifaEvent notzero2 Oc09 May12 [1] | -0.75 | -1.36 — -0.15 | 0.015 | | | | | | | | | | | | |
| N AntifaEvent notzero2 Oc09 May12 [2] | -1.09 | -1.82 – -0.35 | 0.004 | | | | | | | | | | | | |
| avg age | -0.07 | -0.140.00 | 0.044 | -0.07 | -0.130.01 | 0.022 | 0.03 | -0.01 - 0.06 | 0.149 | -0.03 | -0.06 - 0.00 | 0.059 | -0.02 | -0.04 - 0.00 | 0.100 |
| log population | 0.24 | 0.01 - 0.47 | 0.037 | 0.27 | 0.08 - 0.47 | 0.005 | 0.33 | 0.22 - 0.44 | <0.001 | -0.05 | -0.15 - 0.05 | 0.350 | -0.01 | -0.08 - 0.05 | 0.632 |
| prop ksenoi | 0.07 | 0.02 - 0.12 | 0.004 | 0.03 | -0.01 - 0.07 | 0.182 | 0.01 | -0.01 - 0.03 | 0.386 | 0.03 | 0.01 - 0.05 | 0.015 | 0.01 | -0.01 - 0.02 | 0.325 |
| N AntifaEvent notzero2 Oc09 Ju12 [1] | | | | -0.64 | -1.15 – -0.14 | 0.013 | | | | | | | | | |
| N AntifaEvent notzero2 Oc09 Ju12 [2] | | | | -0.81 | -1.400.23 | 0.007 | | | | | | | | | |
| ekloges PERCENTAGE Jun 2012 GD | | | | | | | 0.76 | 0.71 – 0.82 | <0.001 | | | | | | |
| N AntifaEvent notzero2 Ju12 Ja15 [1] | | | | | | | -0.00 | -0.29 - 0.28 | 0.974 | | | | | | |
| N AntifaEvent notzero2 Ju12 Ja15 [2] | | | | | | | -0.36 | -0.66 – -0.06 | 0.019 | | | | | | |
| ekloges PERCENTAGE Jan 2015 GD | | | | | | | | | | 0.90 | 0.84 - 0.96 | <0.001 | | | |
| N AntifaEvent notzero2 Ja15 Sp15 [1] | | | | | | | | | | 0.08 | -0.29 – 0.45 | 0.668 | | | |
| N AntifaEvent notzero2 Ja15 Sp15 [2] | | | | | | | | | | 0.01 | -0.37 - 0.40 | 0.942 | | | |
| ekloges PERCENTAGE Sep 2015 GD | | | | | | | | | | | | | 0.38 | 0.34 - 0.41 | <0.001 |
| N AntifaEvent notzero2 Sp15 Ju19 [1] | | | | | | | | | | | | | -0.05 | -0.19 - 0.09 | 0.503 |
| N AntifaEvent notzero2 Sp15 Ju19 [2] | | | | | | | | | | | | | -0.03 | -0.21 – 0.16 | 0.773 |
| Random Effects | | | | | | | | | | | | | | | |
| σ^2 | 2.58 | | | 1.83 | | | 0.62 | | | 0.56 | | | 0.17 | | |
| τ ₀₀ | 2.34 code_perif | | | 2.10 code_perif | | | 0.36 code_perit | f | | 0.36 code_perif | | | 0.24 code_peri | f | |
| ICC | 0.48 | | | 0.53 | | | 0.37 | | | 0.39 | | | 0.58 | | |
| N | 74 code_perif | | | 74 code_perif | | | 74 code_perif | | | 74 code_perif | | | 74 code_perif | | |
| Observations | 322 | | | 322 | | | 322 | | | 322 | | | 322 | | |
| Marginal R ² / Conditional R ² | 0.207 / 0.584 | | | 0.211/0.633 | | | 0.787 / 0.865 | | | 0.806 / 0.881 | | | 0.635 / 0.846 | | |

Results (Original Table 1):

Model 1: A linear mixed-effects model was built for each of the national electionsfrom May 2012 onward. These results are not only statistically, but also practically, significant.

Model 2: The effect of anti-far right protest is similar to that of Model 1.

Our analysis shows a direct relationship between social movement mobilization and electoral outcomes: protests against the far right took a toll on its electoral result.

My extension

```
1 # Fit linear regression model instead of mixed effects models
2 lm12oMay <- lm (ekloges PERCENTAGE May 2012 GD ~ ekloges PERCENTAGE 2009
     _GD + N_AntifaEvent_notzero2_Oc09_May12 + avg_age + log_population +
    prop_ksenoi, data=dta)
lm12o <- lm (ekloges _PERCENTAGE_Jun_2012 _GD
                                                   ekloges_PERCENTAGE_2009
                                                  avg_age + log_population Extension idea:
    _GD + N_AntifaEvent_notzero2_Oc09_Ju12
     + prop_ksenoi, data=dta)
lm150 <- lm (ekloges_PERCENTAGE_Jan_2015_GD
                                               ekloges PERCENTAGE Jun 2012
                                                 avg_age + log_population
    _GD + N_AntifaEvent_notzero2_Ju12_Ja15 +
    + prop_ksenoi , data=dta)
lm_15So <- lm (ekloges_PERCENTAGE_Sep_2015_GD~
                                                 ekloges_PERCENTAGE_Jan_
    2015_GD + N_AntifaEvent_notzero2_Ja15_Sp15 +
                                                  avg_age + log_population
    + prop_ksenoi , data=dta)
lm19o <- lm (ekloges _PERCENTAGE_Jul_2019_GD ~
                                               ekloges_PERCENTAGE_Sep_2015
    _GD + N_AntifaEvent_notzero2_Sp15_Ju19 +
                                                 avg_age + log_population
    + prop_ksenoi , data=dta)
```

Fit linear regression model instead of mixed effects models.

| Table 1: Extension for Linear Regression Mod | Table 1: | Extension | for Linear | Regression | Models |
|--|----------|-----------|------------|------------|--------|
|--|----------|-----------|------------|------------|--------|

| | | | ndent varial | | |
|--|-----------|-----------|--------------|------------|------------------|
| | May_2012 | | Jan_2015 | Sep_2015 | Jul_2019 |
| | (1) | (2) | (3) | (4) | (5) |
| ekloges_PERCENTAGE_2009_GD | 7.746*** | 7.017*** | | | |
| | (0.986) | (0.879) | | | |
| N_AntifaEvent_notzero2_Oc09_May121 | -0.989** | | | | |
| NAMES TO A SOUND TOO | (0.382) | | | | |
| N_AntifaEvent_notzero2_Oc09_May122 | -1.315*** | | | | |
| N_AntifaEvent_notzero2_Oc09_Ju121 | (0.458) | -0.670** | | | |
| N_AnthaEvent_hotzeroz_Oco9_Ju121 | | (0.338) | | | |
| N_AntifaEvent_notzero2_Oc09_Ju122 | | -1.208*** | | | |
| 112111111a12ventinotze10210c0313t122 | | (0.387) | | | |
| ekloges_PERCENTAGE_Jun_2012_GD | | (5.501) | 0.758*** | | |
| | | | (0.025) | | |
| N_AntifaEvent_notzero2_Ju12_Ja151 | | | -0.017 | | |
| | | | (0.168) | | |
| N_AntifaEvent_notzero2_Ju12_Ja152 | | | -0.501*** | | |
| | | | (0.168) | | |
| ekloges_PERCENTAGE_Jan_2015_GD | | | | 0.950*** | |
| | | | | (0.028) | |
| N_AntifaEvent_notzero2_Ja15_Sp151 | | | | 0.051 | |
| | | | | (0.219) | |
| N_AntifaEvent_notzero2_Ja15_Sp152 | | | | 0.237 | |
| II DEDGENTA CE C 2017 CD | | | | (0.218) | 0.077*** |
| ekloges_PERCENTAGE_Sep_2015_GD | | | | | 0.377*** |
| N_AntifaEvent_notzero2_Sp15_Ju191 | | | | | (0.017) -0.044 |
| tv_Anthansvent_notzeroz_spro_5 uror | | | | | (0.094) |
| N_AntifaEvent_notzero2_Sp15_Ju192 | | | | | -0.009 |
| THE HOLD CONTROL OF THE PARTY O | | | | | (0.116) |
| avg_age | -0.010 | -0.015 | 0.030* | -0.032** | -0.051** |
| - | (0.038) | (0.034) | (0.017) | (0.016) | (0.011) |
| log_population | 0.415*** | 0.449*** | 0.385*** | -0.213*** | -0.046 |
| | (0.120) | (0.107) | (0.057) | (0.053) | (0.035) |
| prop_ksenoi | 0.109*** | 0.069*** | -0.006 | 0.032*** | -0.005 |
| | (0.026) | (0.023) | (0.012) | (0.011) | (0.008) |
| Constant | 0.480 | 0.824 | -4.009*** | 4.413*** | 2.991*** |
| | (2.384) | (2.122) | (1.052) | (1.025) | (0.669) |
| Observations | 322 | 322 | 322 | 322 | 322 |
| \mathbb{R}^2 | 0.308 | 0.311 | 0.794 | 0.817 | 0.667 |
| Adjusted R ² | 0.295 | 0.298 | 0.790 | 0.813 | 0.660 |
| Residual Std. Error (df = 315) | 2.192 | 1.958 | 0.976 | 0.952 | 0.619 |
| F Statistic (df = 6; 315) Note: *n < 0.1: **n < 0.05: ***n < 0.01 | 23.407*** | 23.673*** | | 233.657*** | 104.944** |

Note: p < 0.1; p < 0.05; p < 0.05; p < 0.01. Standard errors in parentheses.

Results:

It can be seen from the regression results that the coefficients of Model 1 and Model 2 are statistically significant, but the R square is small, indicating that the model fitting effect is not good.

Second stage of study - Tango

Branching RQ

How do Tango events affect "electoral results of the GD?



H0: Tango events do NOT affect electoral results of the GD.

H1: Tango events affect "electoral results of the GD.



Variable description

- Dependent variable: the main dependent variable (DV) is the electoral results of GD, measured as the percentage of votes received by the GD per municipality.
- Independent variable: The main IV is a binary variable—Tango events (Yes 1or No 0); Tango events: events especially against for GD events

Replication

```
lmer12MT01 <- lmer(ekloges_PERCENTAGE_May_2012_GD ~ ekloges_
    PERCENTAGE_2009_GD + N_AntifaEvent_Oc09_May12_Tango01 + avg_age +
    log_population + prop_ksenoi + (1|code_perif), data=dta)

lmer15T01 <- lmer(ekloges_PERCENTAGE_Jan_2015_GD ~ ekloges_
    PERCENTAGE_Jun_2012_GD + N_AntifaEvent_Ju12_Ja15_Tango01 + avg_age + log_population + prop_ksenoi + (1|code_perif), data=dta)

lmer19T01 <- lmer(ekloges_PERCENTAGE_Jul_2019_GD ~ ekloges_
    PERCENTAGE_Sep_2015_GD + N_AntifaEvent_Sp15_Ju19_Tango01 + avg_age + log_population + prop_ksenoi + (1|code_perif), data=dta)

tab_model(lmer12MT01, lmer15T01, lmer19T01)

lmer12MT01 <- NULL; lmer15T01 <- NULL; lmer19T01 <- NULL #
housekeeping</pre>
```

Codes for replication

| | ekloges_PER | CENTAGE_May | _2012_GD | ekloges_PEF | CENTAGE_Jan_ | _2015_GD | ekloges_PEF | RCENTAGE_Jul_ | _2019_GD |
|--|----------------|---------------|----------|----------------|---------------|----------|---------------|---------------|----------|
| Predictors | Estimates | CI | p | Estimates | CI | p | Estimates | CI | p |
| (Intercept) | 5.97 | 1.42 - 10.53 | 0.010 | -3.54 | -5.72 – -1.37 | 0.001 | 1.00 | -0.21 – 2.22 | 0.104 |
| ekloges PERCENTAGE 2009 GD | 5.75 | 3.84 - 7.67 | <0.001 | | | | | | |
| N AntifaEvent Oc09 May12 Tango01 | -0.91 | -1.64 — -0.18 | 0.015 | | | | | | |
| avg age | -0.07 | -0.14 - 0.00 | 0.054 | 0.03 | 0.00 - 0.07 | 0.047 | -0.02 | -0.03 - 0.00 | 0.110 |
| log population | 0.17 | -0.04 - 0.39 | 0.117 | 0.28 | 0.18 - 0.39 | <0.001 | -0.01 | -0.07 - 0.05 | 0.684 |
| prop ksenoi | 0.07 | 0.02 - 0.12 | 0.004 | 0.01 | -0.01 - 0.04 | 0.231 | 0.01 | -0.01 - 0.02 | 0.281 |
| ekloges PERCENTAGE Jun 2012 GD | | | | 0.77 | 0.71 – 0.82 | <0.001 | | | |
| N AntifaEvent Ju12 Ja15 Tango01 | | | | -0.09 | -0.34 – 0.16 | 0.486 | | | |
| ekloges PERCENTAGE Sep 2015 GD | | | | | | | 0.37 | 0.34 - 0.41 | <0.001 |
| N AntifaEvent Sp15 Ju19 Tango01 | | | | | | | -0.05 | -0.22 – 0.12 | 0.533 |
| Random Effects | | | | | | | | | |
| σ^2 | 2.63 | | | 0.63 | | | 0.17 | | |
| τ ₀₀ | 2.31 code_peri | f | | 0.38 code_peri | f | | 0.24 code_per | if | |
| ICC | 0.47 | | | 0.38 | | | 0.58 | | |
| N | 74 code_perif | | | 74 code_perif | | | 74 code_perif | | |
| Observations | 322 | | | 322 | | | 322 | | |
| Marginal R ² / Conditional R ² | 0.209 / 0.579 | | | 0.783 / 0.865 | | | 0.637 / 0.847 | | |

The results (Original Table 2):

suggest that: for the elections of May 2012, municipalities with at least one tango event had much lower electoral outcomes for the GD compared to municipalities with no tango events.

My extension

```
# Fit linear regression model instead of mixed effects models
lm12MT01 <- lm(ekloges_PERCENTAGE_May_2012_GD ~ ekloges_PERCENTAGE_2009
    _GD + N_AntifaEvent_Oc09_May12_Tango01 + avg_age + log_population +
    prop_ksenoi , data=dta)
lm15T01 <- lm(ekloges_PERCENTAGE_Jan_2015_GD ~ ekloges_PERCENTAGE_Jun_
    _ 2012_GD + N_AntifaEvent_Ju12_Ja15_Tango01 + avg_age + log_
        population + prop_ksenoi , data=dta)
lm19T01 <- lm(ekloges_PERCENTAGE_Jul_2019_GD ~ ekloges_PERCENTAGE_Sep_
    _ 2015_GD + N_AntifaEvent_Sp15_Ju19_Tango01 + avg_age + log_population +
        prop_ksenoi , data=dta)
```

Extension idea:

Fit linear regression model instead of mixed effects models.

Table 2: Extension for Linear Regression Models

| | $D\epsilon$ | pendent variable. | |
|---|-------------|-------------------|-------------|
| | May_2012 | Jan_2015 | Jul_2019 |
| | (1) | (2) | (3) |
| ekloges_PERCENTAGE_2009_GD | 7.518*** | | |
| 7 | (0.993) | | |
| N_AntifaEvent_Oc09_May12_Tango01 | -1.307*** | | |
| , | (0.451) | | |
| ekloges_PERCENTAGE_Jun_2012_GD | | 0.759^{***} | |
| | | (0.026) | |
| N_AntifaEvent_Ju12_Ja15_Tango01 | | -0.160 | |
| | | (0.146) | |
| ekloges_PERCENTAGE_Sep_2015_GD | | | 0.376*** |
| - | | | (0.017) |
| N_AntifaEvent_Sp15_Ju19_Tango01 | | | -0.031 |
| | | | (0.118) |
| avg_age | -0.007 | 0.040** | -0.051*** |
| | (0.038) | (0.017) | (0.010) |
| log_population | 0.340*** | 0.328*** | -0.045 |
| | (0.114) | (0.054) | (0.033) |
| prop_ksenoi | 0.110*** | -0.002 | -0.004 |
| | (0.026) | (0.012) | (0.007) |
| Constant | 0.970 | -4.044^{***} | 2.949*** |
| | (2.378) | (1.075) | (0.666) |
| Observations | 322 | 322 | 322 |
| \mathbb{R}^2 | 0.301 | 0.787 | 0.666 |
| Adjusted R ² | 0.290 | 0.784 | 0.661 |
| Residual Std. Error $(df = 316)$ | 2.200 | 0.990 | 0.618 |
| F Statistic ($df = 5; 316$) | 27.246*** | 233.736*** | 126.228*** |

Note: *p<0.1; **p<0.05; ***p<0.01

Results:

It can be seen from the regression results that the **coefficients of Model 1 are statistically significant,** but the R square is small, indicating that the **model fitting effect is not good.**

Second stage of study - Timing

Branching RQ

How does Timing of protest events affect electoral results of the GD?



H0: Timing of protest events does NOT affect electoral results of the GD.

H1: Timing of protest events affects electoral results of the GD.

Variable description

- Dependent variable: the main dependent variable (DV) is the electoral results of GD, measured as the percentage of votes received by the GD per municipality.
- Independent variable: The main IV is a categorical variable describing the temporal proximity to the parliamentary election.



Replication

Codes for replication

| | eklones PFR | CENTAGE May | 2012 GD | eklones PFR | CENTAGE_Jan | 2015 GD | eklones PFP | CENTAGE Jul | 2019 GD |
|--|-----------------|---------------|----------|----------------|---------------|----------|----------------|--------------|---------------|
| Predictors | Estimates | CI | _2012_GD | Estimates | CI | _2013_GD | Estimates | CI | _2019_QD p |
| (Intercept) | 5.71 | 1.16 - 10.27 | 0.014 | -3.40 | -5.56 — -1.24 | 0.002 | 1.09 | -0.13 – 2.31 | 0.080 |
| ekloges PERCENTAGE 2009 GD | 5.59 | 3.67 – 7.50 | <0.001 | | | | | | |
| N_AntifaEvent_Oc09_May12_AB0-1 | -0.64 | -1.36 - 0.08 | 0.083 | | | | | | |
| N_AntifaEvent_Oc09_May12_AB1-0 | -1.08 | -2.030.12 | 0.027 | | | | | | |
| N_AntifaEvent_Oc09_May12_AB1-1 | -1.01 | -1.74 – -0.29 | 0.006 | | | | | | |
| avg age | -0.07 | -0.140.00 | 0.042 | 0.03 | -0.01 - 0.06 | 0.146 | -0.02 | -0.04 - 0.00 | 0.101 |
| log population | 0.23 | 0.01 - 0.46 | 0.044 | 0.32 | 0.21 - 0.43 | <0.001 | -0.02 | -0.08 - 0.04 | 0.585 |
| prop ksenoi | 0.07 | 0.02 - 0.12 | 0.004 | 0.01 | -0.01 - 0.03 | 0.339 | 0.01 | -0.01 - 0.02 | 0.340 |
| ekloges PERCENTAGE Jun 2012 GD | | | | 0.76 | 0.71 – 0.82 | <0.001 | | | |
| N_AntifaEvent_Ju12_Ja15_AB0-1 | | | | -0.10 | -0.36 - 0.16 | 0.452 | | | |
| N_AntifaEvent_Ju12_Ja15_AB1-0 | | | | -0.42 | -2.07 - 1.23 | 0.615 | | | |
| N_AntifaEvent_Ju12_Ja15_AB1-1 | | | | -0.40 | -0.740.05 | 0.025 | | | |
| ekloges PERCENTAGE Sep 2015 GD | | | | | | | 0.38 | 0.34 – 0.41 | <0.001 |
| N_AntifaEvent_Sp15_Ju19_AB0-1 | | | | | | | -0.07 | -0.22 - 0.07 | 0.332 |
| N_AntifaEvent_Sp15_Ju19_AB1-0 | | | | | | | 0.08 | -0.23 - 0.39 | 0.615 |
| N_AntifaEvent_Sp15_Ju19_AB1-1 | | | | | | | -0.01 | -0.19 - 0.17 | 0.931 |
| Random Effects | | | | | | | | | |
| σ^2 | 2.59 | | | 0.62 | | | 0.17 | | |
| τ_{00} | 2.33 code_perif | | | 0.37 code_peri | f | | 0.23 code_peri | f | |
| ICC | 0.47 | | | 0.37 | | | 0.58 | | |
| N | 74 code_perif | | | 74 code_perif | | | 74 code_perif | | |
| Observations | 322 | | | 322 | | | 322 | | |
| Marginal R ² / Conditional R ² | 0.206 / 0.582 | | | 0.786 / 0.865 | | | 0.637 / 0.847 | | |

The results (see Original Table 3):

for May 2012 suggest that organizing at least one proximate protest event against the far right, compared to organizing no events at all, corresponds to a smaller electoral outcome for the GD.

The evidence presented shows that the synchronization of protest and electoral cycles makes protest more effective: protests against the far right taking place right before the next election are much more effective than those temporally more distant.

My extension

```
lm12M <- lm(ekloges_PERCENTAGE_May_2012_GD ~ ekloges_PERCENTAGE_
2009_GD + N_AntifaEvent_Oc09_May12_AB + avg_age + log_population +
prop_ksenoi , data=dta)
lm15 <- lm(ekloges_PERCENTAGE_Jan_2015_GD ~ ekloges_PERCENTAGE_Jun_
2012_GD + N_AntifaEvent_Ju12_Ja15_AB + avg_age + log_population+
prop_ksenoi , data=dta)
lm19 <- lm(ekloges_PERCENTAGE_Jul_2019_GD ~ ekloges_PERCENTAGE_Sep_
2015_GD + N_AntifaEvent_Sp15_Ju19_AB + avg_age + log_population +
prop_ksenoi , data=dta)</pre>
```

Extension idea:

Fit linear regression model instead of mixed effects models.

Table 3: Extension for Linear Regression Models

| | $Dependent\ variable:$ | | | | | |
|----------------------------------|------------------------|----------------------|----------------------|--|--|--|
| | May_2012 | Jan_2015 | Jul_2019 | | | |
| | (1) | (2) | (3) | | | |
| ekloges_PERCENTAGE_2009_GD | 7.645*** (0.992) | | | | | |
| N_AntifaEvent_Oc09_May12_AB0-1 | -0.677 (0.464) | | | | | |
| N_AntifaEvent_Oc09_May12_AB1-0 | -1.591*** (0.577) | | | | | |
| N_AntifaEvent_Oc09_May12_AB1-1 | -1.244*** (0.454) | | | | | |
| ekloges_PERCENTAGE_Jun_2012_GD | | 0.754*** (0.026) | | | | |
| N_AntifaEvent_Ju12_Ja15_AB0-1 | | -0.168 (0.152) | | | | |
| N_AntifaEvent_Ju12_Ja15_AB1-0 | | -0.731 (0.988) | | | | |
| N_AntifaEvent_Ju12_Ja15_AB1-1 | | -0.503** (0.197) | | | | |
| ekloges_PERCENTAGE_Sep_2015_GD | | | 0.379*** (0.017) | | | |
| N_AntifaEvent_Sp15_Ju19_AB0-1 | | | -0.072 (0.096) | | | |
| N_AntifaEvent_Sp15_Ju19_AB1-0 | | | $0.019 \\ (0.219)$ | | | |
| N_AntifaEvent_Sp15_Ju19_AB1-1 | | | 0.043 (0.119) | | | |
| avg_age | -0.009 (0.038) | $0.032* \\ (0.017)$ | -0.051*** (0.011) | | | |
| log_population | 0.409*** (0.120) | 0.375*** (0.058) | -0.052 (0.035) | | | |
| prop_ksenoi | 0.110*** (0.026) | -0.005 (0.012) | -0.005 (0.008) | | | |
| Constant | $0.545 \\ (2.379)$ | -3.992*** (1.061) | 2.997*** (0.670) | | | |
| Observations | 322 | 322 | 322 | | | |
| \mathbb{R}^2 | 0.312 | 0.791 | 0.668 | | | |
| Adjusted R ² | 0.296 | 0.786 | 0.660 | | | |
| Residual Std. Error $(df = 314)$ | 2.191 | 0.984 | 0.619 | | | |
| F Statistic (df = 7 ; 314) | 20.322*** | 169.783*** | 90.067** | | | |

Results:

It can be seen from the regression results that the all of the coefficients of Models are **not statistically significant**.