Replication - Main Tables

2025-06-15

Replication of the main tables

Table 1 - Incumbent 2010

Required libraries.

##

some

```
library(tidyverse)
## -- Attaching core tidyverse packages ---- tidyverse 2.0.0 --
           1.1.4 v readr
                                     2.1.5
## v dplyr
## v forcats 1.0.0 v stringr 1.5.1
## v ggplot2 3.5.2
                      v tibble
                                     3.2.1
## v lubridate 1.9.4
                         v tidyr
                                     1.3.1
## v purrr
               1.0.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(stargazer)
##
## Please cite as:
##
## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
## R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
library(knitr)
library(broom)
library(haven)
library(fixest)
library(modelsummary)
library(gt)
library(webshot2)
library(car)
## Loading required package: carData
##
## Attaching package: 'car'
##
## The following object is masked from 'package:dplyr':
##
##
       recode
## The following object is masked from 'package:purrr':
##
```

Defining the control and dependent variables.

Loading the data and filtering it.

```
data <- read_dta("~/work/Electoral data cleaned.dta")

data_filtered <- data %>%
    filter(RES10_gender == 0 & SAMPLE_hhsurvey == 1 & GP_tag == 1 & INCO5_can_run == 1) %>%
    mutate(
    FAMnotINCO5_running = INCorFAMO5_running - INCO5_running,
    FAMnotINCO5_voteshare = INCorFAMO5_voteshare - INCO5_voteshare,
    FAMnotINCO5_won = INCorFAMO5_won - INCO5_won
)
```

Function for the regression formulas.

Function for the statistical tests.

```
calculate_tests <- function(model, model_type) {
  if (model_type == "any_treatment") {
    test1 <- tryCatch({
      car::linearHypothesis(model, "RESO5_gender = 0")
    }, error = function(e) list(PrF = NA))
    pval1 <- if (!is.null(test1$PrF)) round(test1$^Pr(>F)^[2], 2) else NA

    test2 <- tryCatch({
      car::linearHypothesis(model, "INT_treatment:RESO5_gender = 0")
    }, error = function(e) list(PrF = NA))
    pval2 <- if (!is.null(test2$PrF)) round(test2$^Pr(>F)^[2], 2) else NA

    test3 <- tryCatch({
      car::linearHypothesis(model, "INT_treatment = INT_treatment:RESO5_gender")
    }, error = function(e) list(PrF = NA))</pre>
```

```
pval3 <- if (!is.null(test3$PrF)) round(test3$`Pr(>F)`[2], 2) else NA
    return(list(pval1 = pval1, pval2 = pval2, pval3 = pval3))
  } else if (model_type == "gender_general") {
    test1 <- tryCatch({</pre>
      car::linearHypothesis(model, "INT_treatment_gender:RES05_gender = 0")
    }, error = function(e) list(PrF = NA))
    pval1 <- if (!is.null(test1$PrF)) round(test1$Pr(>F)^[2], 2) else NA
    test2 <- tryCatch({</pre>
      car::linearHypothesis(model, "INT_treatment_general:RES05_gender = 0")
    }, error = function(e) list(PrF = NA))
    pval2 <- if (!is.null(test2$PrF)) round(test2$Pr(>F)^[2], 2) else NA
    test3 <- tryCatch({</pre>
      car::linearHypothesis(model, "INT_treatment_gender = INT_treatment_general")
    }, error = function(e) list(PrF = NA))
    pval3 <- if (!is.null(test3$PrF)) round(test3$`Pr(>F)`[2], 2) else NA
    test4 <- tryCatch({</pre>
      car::linearHypothesis(model, "INT_treatment_gender:RES05_gender = INT_treatment_general:RES05_gen
    }, error = function(e) list(PrF = NA))
    pval4 <- if (!is.null(test4$PrF)) round(test4$Pr(>F)^[2], 2) else NA
    return(list(pval1 = pval1, pval2 = pval2, pval3 = pval3, pval4 = pval4))
  }
}
Estimating the models, starting by initialising lists of results.
models list <- list()</pre>
control means <- list()</pre>
test_results <- list()</pre>
Models with "any treatment":
for (i in 1:length(incum_dep_vars1)) {
  dep_var <- incum_dep_vars1[i]</pre>
  control mean <- data filtered %>%
    filter(INT treatment == 0 & RESO5 gender == 0) %>%
    summarise(mean = mean(!!sym(dep_var), na.rm = TRUE)) %>%
    pull(mean) %>%
    round(2)
  control_means[[i]] <- control_mean</pre>
  formula <- create_formula(dep_var, "any_treatment")</pre>
  model <- lm(formula, data = data_filtered)</pre>
  models_list[[i]] <- model</pre>
  test_results[[i]] <- calculate_tests(model, "any_treatment")</pre>
```

Models with "gender and general treatment":

```
for (i in 1:length(incum_dep_vars1)) {
    dep_var <- incum_dep_vars1[i]
    j <- i + length(incum_dep_vars1)

    control_means[[j]] <- control_means[[i]]

    formula <- create_formula(dep_var, "gender_general")
    model <- lm(formula, data = data_filtered)
    models_list[[j]] <- model

    test_results[[j]] <- calculate_tests(model, "gender_general")
}</pre>
Variables to display and selection of columns and summary statistics (means and test results).
```

Generating the output table.

INT_treatment_gender

##

```
## Table 1: Effects on Incumbent and Family Candidate Entry
```

```
##
##
##
                             INCO5_running
                                          INCO5_voteshare
                                                        INCSPOUSE05 r
                                          Incumbent Vote Share Incumbent Spou
##
                             Incumbent Runs
                                               (2)
                               -0.26***
                                             -6.27***
                                                             0.06
## INT_treatment
                                (0.09)
##
                                              (2.35)
                                                             (0.07)
##
```

```
##
##
## INT_treatment_general
##
##
## RES05 gender
                                                    -0.38***
                                                                           -10.22***
                                                                                                     0.36***
                                                     (0.11)
                                                                                                     (0.08)
##
                                                                             (2.65)
##
## INT_treatment:RES05_gender
                                                     0.36**
                                                                             9.13**
                                                                                                    -0.27**
                                                     (0.14)
##
                                                                             (3.52)
                                                                                                     (0.11)
## INT_treatment_gender:RES05_gender
##
## INT_treatment_general:RES05_gender
##
##
## Observations
                                                      152
                                                                              149
                                                                                                       152
## Mean in Control without GQ
                                                      0.46
                                                                              10.1
                                                                                                      0.04
## Treatment with GQ = Treat without GQ
## Gender Treat = General Treat without GQ
## Gender Treat = General Treat with GQ
## Observations
                                                                              149
                                                      152
                                                                                                       152
## R.2
                                                      0.32
                                                                              0.39
                                                                                                      0.22
## Adjusted R2
                                                      0.21
                                                                              0.29
                                                                                                     0.10
## Residual Std. Error
                                                0.40 \text{ (df = 131)}
                                                                       9.94 (df = 128)
                                                                                                0.32 (df =
## F Statistic
                                             3.02*** (df = 20; 131) 4.01*** (df = 20; 128) 1.80** (df = 2)
## ========
## Note:
Non formatted version of the table, to fit into the PDF.
## CREATE OUTPUT TABLE FOR INCUMBENT ANALYSIS
create_outreg_table <- function(models_list, incum_dep_vars1, outregvar2, control_means, test_results)</pre>
  # Function to extract model results
  extract_model_results <- function(model) {</pre>
    if (is.null(model)) return(NULL)
    summary_model <- summary(model)</pre>
    coef_table <- summary_model$coefficients</pre>
    results <- list()
    for (var in outregvar2) {
      matching_vars <- rownames(coef_table)[grepl(paste0("^", gsub(":", ":", var), "$"), rownames(coef_
      if (length(matching_vars) > 0) {
        var_name <- matching_vars[1]</pre>
        coef_val <- coef_table[var_name, "Estimate"]</pre>
        se_val <- coef_table[var_name, "Std. Error"]</pre>
        pval <- coef_table[var_name, "Pr(>|t|)"]
        # Adding significance stars
```

stars <- if (pval < 0.01) "***" else if (pval < 0.05) "**" else if (pval < 0.1) "*" else ""

```
results[[var]] <- list(</pre>
        coef = round(coef_val, 3),
        se = round(se_val, 3),
        pval = pval,
        stars = stars,
        coef_formatted = pasteO(round(coef_val, 3), stars),
        se_formatted = paste0("(", round(se_val, 3), ")")
    } else {
      results[[var]] <- list(
        coef = NA,
        se = NA,
        pval = NA,
        stars = "",
        coef_formatted = "NA",
        se_formatted = "(NA)"
    }
 }
  return(results)
# Create column names
col_names <- c("Incumbent Runs", "Incumbent Vote Share",</pre>
                "Incumbent Spouse Runs", "Incumbent Spouse Vote Share",
                "Other Family Member Runs", "Other Family Member Vote Share")
# Initialize the final table
final_table <- data.frame(</pre>
 Variable = character(),
 stringsAsFactors = FALSE
# Add columns for each dependent variable (both any_treatment and gender_general models)
for (i in 1:length(incum_dep_vars1)) {
 final_table[[paste0(col_names[i], "_Any")]] <- character()</pre>
 final_table[[paste0(col_names[i], "_Detailed")]] <- character()</pre>
}
# Extract results for each variable
for (var in outregvar2) {
 # Coefficient row
 coef_row <- data.frame(Variable = var, stringsAsFactors = FALSE)</pre>
 se_row <- data.frame(Variable = paste0(" ", var, "_se"), stringsAsFactors = FALSE)</pre>
  # For each dependent variable
 for (i in 1:length(incum_dep_vars1)) {
    # Any treatment model (first 6 models)
    any_results <- extract_model_results(models_list[[i]])</pre>
    coef_row[[paste0(col_names[i], "_Any")]] <- if (!is.null(any_results[[var]])) any_results[[var]]$</pre>
    se_row[[paste0(col_names[i], "_Any")]] <- if (!is.null(any_results[[var]])) any_results[[var]]$se
    # Gender/General treatment model (models 7-12)
```

```
detailed_results <- extract_model_results(models_list[[i + length(incum_dep_vars1)]])</pre>
      coef_row[[paste0(col_names[i], "_Detailed")]] <- if (!is.null(detailed_results[[var]])) detailed_</pre>
      se_row[[paste0(col_names[i], "_Detailed")]] <- if (!is.null(detailed_results[[var]])) detailed_re</pre>
    final_table <- rbind(final_table, coef_row, se_row)</pre>
  }
  # Add additional statistics rows
  # Observations
  obs_row <- data.frame(Variable = "Observations", stringsAsFactors = FALSE)
  for (i in 1:length(incum_dep_vars1)) {
    obs_row[[paste0(col_names[i], "_Any")]] <- nobs(models_list[[i]])</pre>
    obs_row[[paste0(col_names[i], "_Detailed")]] <- nobs(models_list[[i + length(incum_dep_vars1)]])</pre>
  final_table <- rbind(final_table, obs_row)</pre>
  # Control means
  mean_row <- data.frame(Variable = "Mean in Control without GQ", stringsAsFactors = FALSE)
  for (i in 1:length(incum_dep_vars1)) {
    mean_row[[pasteO(col_names[i], "_Any")]] <- control_means[[i]]</pre>
    mean_row[[paste0(col_names[i], "_Detailed")]] <- control_means[[i]]</pre>
  final_table <- rbind(final_table, mean_row)</pre>
  # Test results
  test1_row <- data.frame(Variable = "Treatment with GQ = Treat without GQ", stringsAsFactors = FALSE)
  for (i in 1:length(incum_dep_vars1)) {
    test1_row[[paste0(col_names[i], "_Any")]] <- test_results[[i]]$pval3</pre>
    test1_row[[paste0(col_names[i], "_Detailed")]] <- ""</pre>
  final_table <- rbind(final_table, test1_row)</pre>
  test2_row <- data.frame(Variable = "Gender Treat = General Treat without GQ", stringsAsFactors = FALS
  for (i in 1:length(incum_dep_vars1)) {
    test2_row[[paste0(col_names[i], "_Any")]] <- ""</pre>
    test2_row[[paste0(col_names[i], "_Detailed")]] <- test_results[[i + length(incum_dep_vars1)]]$pval3</pre>
  final_table <- rbind(final_table, test2_row)</pre>
  test3_row <- data.frame(Variable = "Gender Treat = General Treat with GQ", stringsAsFactors = FALSE)
  for (i in 1:length(incum_dep_vars1)) {
    test3_row[[paste0(col_names[i], "_Any")]] <- ""</pre>
    test3_row[[paste0(col_names[i], "_Detailed")]] <- test_results[[i + length(incum_dep_vars1)]]$pval4
  final_table <- rbind(final_table, test3_row)</pre>
 return(final_table)
}
# Create the main table
main_table <- create_outreg_table(models_list, incum_dep_vars1, outregvar2, control_means, test_results
```

Display the table print(main_table)

```
##
                                       Variable
## 1
                                  INT treatment
## 2
                               INT_treatment_se
## 3
                          INT_treatment_gender
## 4
                       INT_treatment_gender_se
## 5
                         INT_treatment_general
## 6
                      INT_treatment_general_se
## 7
                                   RES05_gender
## 8
                                RES05_gender_se
## 9
                    INT_treatment:RES05_gender
## 10
                 INT_treatment:RES05_gender_se
## 11
             INT_treatment_gender:RES05_gender
## 12
         INT_treatment_gender:RES05_gender_se
## 13
           INT_treatment_general:RES05_gender
## 14
        INT_treatment_general:RES05_gender_se
## 15
                                   Observations
## 16
                    Mean in Control without GQ
## 17
         Treatment with GQ = Treat without GQ
      Gender Treat = General Treat without GQ
## 18
## 19
         Gender Treat = General Treat with GQ
##
      Incumbent Runs Any Incumbent Runs Detailed
## 1
                -0.262***
                                                 NA
## 2
                  (0.094)
                                               (NA)
## 3
                                            -0.242*
                       NA
## 4
                     (NA)
                                            (0.123)
                                           -0.278**
## 5
                       NA
## 6
                     (NA)
                                            (0.111)
                -0.376***
## 7
                                          -0.381***
## 8
                  (0.107)
                                            (0.108)
## 9
                  0.357**
                                                 NA
## 10
                  (0.141)
                                               (NA)
## 11
                       NA
                                             0.38**
## 12
                     (NA)
                                            (0.172)
## 13
                                            0.309*
                       NA
## 14
                     (NA)
                                            (0.177)
## 15
                      152
                                                152
## 16
                     0.46
                                               0.46
## 17
                     <NA>
## 18
                                               <NA>
## 19
                                               <NA>
##
      Incumbent Vote Share_Any Incumbent Vote Share_Detailed
## 1
                      -6.265***
                                                              NA
## 2
                        (2.353)
                                                            (NA)
## 3
                              NA
                                                          -4.275
## 4
                            (NA)
                                                          (3.04)
## 5
                                                       -7.81***
                             NA
## 6
                            (NA)
                                                         (2.787)
## 7
                     -10.223***
                                                     -10.531***
                                                         (2.659)
## 8
                        (2.652)
## 9
                        9.127**
                                                              NA
## 10
                        (3.522)
                                                            (NA)
```

```
## 11
                                                          8.925 **
                               NA
## 12
                             (NA)
                                                           (4.24)
## 13
                                                           8.055*
                              NA
## 14
                             (NA)
                                                          (4.461)
## 15
                             149
                                                               149
## 16
                             10.1
                                                              10.1
## 17
                             <NA>
## 18
                                                              <NA>
## 19
                                                              <NA>
##
      Incumbent Spouse Runs_Any Incumbent Spouse Runs_Detailed
## 1
                            0.057
## 2
                          (0.074)
                                                                (NA)
## 3
                                                               0.006
                                NA
## 4
                              (NA)
                                                             (0.097)
## 5
                                NA
                                                               0.094
## 6
                              (NA)
                                                             (0.087)
## 7
                         0.364***
                                                           0.367***
## 8
                          (0.084)
                                                             (0.084)
## 9
                         -0.274**
                                                                  NA
## 10
                          (0.111)
                                                                (NA)
## 11
                                NA
                                                             -0.176
## 12
                              (NA)
                                                             (0.135)
                                                          -0.382***
## 13
                                NA
## 14
                              (NA)
                                                             (0.138)
## 15
                              152
                                                                 152
## 16
                             0.04
                                                                0.04
## 17
                             <NA>
## 18
                                                                <NA>
## 19
                                                                <NA>
##
      Incumbent Spouse Vote Share_Any
## 1
                                   1.044
## 2
                                 (1.884)
## 3
                                      NA
## 4
                                    (NA)
## 5
                                      NA
## 6
                                    (NA)
## 7
                                5.761***
## 8
                                 (2.124)
## 9
                                 -4.683*
## 10
                                  (2.82)
## 11
                                      NA
## 12
                                    (NA)
## 13
                                      NA
## 14
                                    (NA)
## 15
                                     149
## 16
                                    0.73
## 17
                                    <NA>
## 18
## 19
      Incumbent Spouse Vote Share_Detailed
##
## 1
                                            NA
## 2
                                          (NA)
## 3
                                         0.695
## 4
                                       (2.429)
```

```
## 5
                                        1.315
## 6
                                      (2.226)
## 7
                                     5.707***
## 8
                                      (2.124)
## 9
                                           NA
## 10
                                         (NA)
## 11
                                       -2.318
## 12
                                      (3.387)
## 13
                                     -8.078**
## 14
                                      (3.563)
## 15
                                          149
## 16
                                         0.73
## 17
## 18
                                         <NA>
## 19
                                         <NA>
##
      Other Family Member Runs_Any
## 1
                              0.112*
## 2
                             (0.066)
## 3
                                  NA
## 4
                                 (NA)
## 5
                                  NA
## 6
                                 (NA)
## 7
                            -0.148**
## 8
                             (0.075)
## 9
                                0.03
## 10
                             (0.099)
## 11
                                  NA
## 12
                                (NA)
## 13
                                  NA
## 14
                                (NA)
## 15
                                  152
## 16
                                0.08
## 17
                                <NA>
## 18
## 19
##
      Other Family Member Runs_Detailed
## 1
## 2
                                      (NA)
## 3
                                     0.109
## 4
                                   (0.087)
## 5
                                     0.114
## 6
                                   (0.078)
## 7
                                  -0.149*
## 8
                                   (0.076)
## 9
                                        NA
## 10
                                      (NA)
## 11
                                     0.046
## 12
                                   (0.121)
## 13
                                     0.009
## 14
                                   (0.124)
## 15
                                       152
## 16
                                      0.08
## 17
## 18
                                      <NA>
```

```
## 19
                                      <NA>
##
      Other Family Member Vote Share_Any
## 1
                                      1.826
## 2
                                    (1.505)
## 3
                                         NA
## 4
                                       (NA)
## 5
                                         NA
## 6
                                       (NA)
## 7
                                     -2.047
## 8
                                    (1.697)
## 9
                                      1.777
## 10
                                    (2.254)
## 11
                                         NA
## 12
                                       (NA)
## 13
                                         NA
## 14
                                       (NA)
## 15
                                        149
## 16
                                       0.86
## 17
                                       <NA>
## 18
## 19
##
      Other Family Member Vote Share_Detailed
## 1
                                              NA
## 2
                                            (NA)
## 3
                                           1.277
## 4
                                         (1.931)
## 5
                                           2.254
## 6
                                          (1.77)
## 7
                                          -2.072
## 8
                                         (1.689)
## 9
                                              NA
## 10
                                             (NA)
## 11
                                           4.222
                                         (2.693)
## 12
## 13
                                          -1.602
## 14
                                         (2.833)
## 15
                                             149
## 16
                                            0.86
## 17
## 18
                                            <NA>
## 19
                                            <NA>
```

Table 2 - Performance 2010

Required libraries:

```
library(tidyverse)
library(fixest)
library(stargazer)
library(haven)
library(lmtest)
```

```
## Loading required package: zoo
```

##

```
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
       as.Date, as.Date.numeric
Defining the macros: control variables and variables related to the regression.
# Control variables
gpcontrols <- c("GP_population", "GP_lit", "GP_sc", "GP_st", "GP_nbvillages",</pre>
                 "RES00 gender", "RES00 obc", "RES00 sc", "RES00 st",
                 "RES10_obc", "RES10_sc", "RES10_st", "RES05_obc", "RES05_sc", "RES05_st")
# Regression variables
outregvar2 <- c("INT_treatment", "RES05_gender", "X_anytr_genderres05")</pre>
Data processing: uploading, filtering.
# Change path accordingly to your workspace.
data <- read_dta("~/work/Electoral data cleaned.dta")</pre>
# Filtering the data
data filtered <- data %>%
  filter(RES10_gender == 0, SAMPLE_hhsurvey == 1, GP_tag == 1, INCO5_can_run == 1) %>%
    FAMnotINCO5_running = INCFAMO5_running - INCO5_running,
    FAMnotINCO5 voteshare = INCFAMO5 voteshare - INCO5 voteshare,
    FAMnotINCO5_won = INCFAMO5_won - INCO5_won
 )
Generation of the performance indices of the program.
data_filtered <- data_filtered %>%
  mutate(
    index_empl_svy_0 = rowMeans(select(., std_HH_NREGA, std_HH_NREGA_unmet_demand_m, std_HH_NREGA_unmet
    index_empl_svy_1 = rowMeans(select(., std_HH_NREGA_unmet_demand, std_HH_NREGA_unmet_demand_m, std_H
    index_empl_svy_2 = rowMeans(select(., std_HH_NREGA, std_HH_NREGA_work_m, std_HH_NREGA_work_f), na.r.
    index_empl_svy_3 = rowMeans(select(., std_HH_NREGA_unmet_demand_m, std_HH_NREGA_unmet_demand_f), na
 )
Dependent variables.
incum_dep_vars1 <- c("INC05_running", "INC05_voteshare", "INC05_won",</pre>
                      "INCSPOUSE05_running", "INCSPOUSE05_voteshare", "INCSPOUSE05_won",
                      "INCOTHER05_running", "INCOTHER05_voteshare", "INCOTHER05_won")
indices <- c("index_empl_svy_0", "index_empl_svy_1", "index_empl_svy_2", "index_empl_svy_3")</pre>
Initialization of the lists for the upcoming results.
models_list <- list()</pre>
control_means <- numeric(length(incum_dep_vars1) * length(indices))</pre>
pvals_1 <- numeric(length(incum_dep_vars1) * length(indices))</pre>
pvals_2 <- numeric(length(incum_dep_vars1) * length(indices))</pre>
effect_average <- numeric(length(incum_dep_vars1) * length(indices))</pre>
effect_good <- numeric(length(incum_dep_vars1) * length(indices))</pre>
effect_bad <- numeric(length(incum_dep_vars1) * length(indices))</pre>
```

Doing the regressions.

```
i <- 0
for (x in 0:1) {
  for (dep_var in incum_dep_vars1) {
    for (index in indices) {
      i < -i + 1
      # control mean
      control_mean <- data_filtered %>%
        filter(INT_treatment == 0 & RES05_gender == x) %>%
        summarise(mean = mean(!!sym(dep_var), na.rm = TRUE)) %>%
        pull(mean) %>%
        round(2)
      control_means[i] <- control_mean</pre>
      # mean and standard error of the index
      index_stats <- data_filtered %>%
        filter(RES05_gender == x) %>%
        summarise(mean = mean(!!sym(index), na.rm = TRUE),
                  sd = sd(!!sym(index), na.rm = TRUE))
      index_mean <- round(index_stats$mean, 2)</pre>
      index_sd <- round(index_stats$sd, 2)</pre>
      # interaction variables
      data_filtered <- data_filtered %>%
        mutate(
          TEMP_index = get(index),
          TEMP_X_res_index = RES05_gender * get(index),
          TEMP_X_anytr_index = INT_treatment * get(index),
          TEMP_X_anytr_res_index = INT_treatment * RES05_gender * get(index)
      # checking that all the variables exist in the set
      all_vars <- c(dep_var, "INT_treatment", "TEMP_index", "TEMP_X_anytr_index", gpcontrols, "district
      if (all(all_vars %in% names(data_filtered))) {
        # model estimation
        formula <- as.formula(paste(dep_var, "~ INT_treatment + TEMP_index + TEMP_X_anytr_index +", pas
        model <- tryCatch({</pre>
          lm(formula, data = data_filtered %>% filter(RES05_gender == x))
        }, error = function(e) {
         message("Error in model fitting: ", e$message)
          NULL
        })
        if (!is.null(model)) {
          models_list[[i]] <- model</pre>
          # doing the tests
          test_1 <- tryCatch({</pre>
            waldtest(model, c("INT_treatment + TEMP_X_anytr_index = 0", paste("TEMP_index =", index_mea
          }, error = function(e) {
            message("Error in test 1: ", e$message)
```

```
})
          if (!is.null(test_1)) {
            pvals_1[i] <- round(test_1$p.value, 2)</pre>
          } else {
            pvals_1[i] <- NA</pre>
          test_2 <- tryCatch({</pre>
            waldtest(model, c("INT_treatment + TEMP_X_anytr_index = 0"))
          }, error = function(e) {
            message("Error in test 2: ", e$message)
            NULL
          })
          if (!is.null(test_2)) {
            pvals_2[i] <- round(test_2$p.value, 2)</pre>
          } else {
            pvals_2[i] <- NA</pre>
          # effects
          effect_average[i] <- coef(model)["INT_treatment"] + coef(model)["TEMP_X_anytr_index"] * index</pre>
          effect_good[i] <- coef(model)["INT_treatment"] + coef(model)["TEMP_X_anytr_index"] * (index_m
          effect_bad[i] <- coef(model)["INT_treatment"] + coef(model)["TEMP_X_anytr_index"] * (index_me
          # displaying said effects
          cat("Effects on outcome", dep_var, "\n")
          cat("Effect of treatment for average performing incumbent is", effect_average[i], "\n")
          cat("Effect of treatment for +1 sd performing incumbent is", effect_good[i], "\n")
          cat("Effect of treatment for -1 sd performing incumbent is", effect_bad[i], "\n")
          message("Model fitting failed for ", dep_var)
        }
      } else {
        message("Some variables are missing in the dataset for ", dep_var)
      }
    }
 }
}
## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
## TEMP_X_anytr_index = 0", "TEMP_index = -0.01"
## Error in test 1: empty model specification
## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
## TEMP_X_anytr_index = 0"
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```

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## TEMP_X_anytr_index = 0"
## Error in test 2: empty model specification
## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
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## TEMP_X_anytr_index = 0", "TEMP_index = 0"
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## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
## TEMP_X_anytr_index = 0"
```

```
## Error in test 2: empty model specification
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## terms specified that are not in the model: "INT_treatment +
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## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
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```

```
## Error in test 2: empty model specification
## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
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## Error in test 1: empty model specification
## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
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## Warning in modelUpdate(objects[[i - 1]], objects[[i]]):
## terms specified that are not in the model: "INT_treatment +
## TEMP_X_anytr_index = 0"
## Error in test 2: empty model specification
## Error in test 1: there are aliased coefficients in the model
## Error in test 2: there are aliased coefficients in the model
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## Error in test 1: there are aliased coefficients in the model
```

```
## Error in test 2: there are aliased coefficients in the model
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```
## Error in test 1: there are aliased coefficients in the model
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## Error in test 1: there are aliased coefficients in the model
## Error in test 2: there are aliased coefficients in the model
Generation of a table displaying the coefficients of interest.
# Selection of the right models to display
panel_A_models <- models_list[c(1, 5, 13, 17, 25, 29)]</pre>
panel_B_models <- models_list[c(37, 41, 49, 53, 61, 65)]
# Panel A
panel_A <- stargazer(</pre>
  panel_A_models,
  type = "text",
  column.labels = c("Model 1", "Model 5", "Model 13", "Model 17", "Model 25", "Model 29"),
  keep = c("INT_treatment", "TEMP_index", "TEMP_X_anytr_index"),
  add.lines = list(
```

Error in test 2: there are aliased coefficients in the model

##
Panel A: GP without Gender Quota in 2005

),

)

digits = 2,

single.row = TRUE

c("District FE", rep("Yes", length(panel_A_models))),
c("GP Controls", rep("Yes", length(panel_A_models))),

title = "Panel A: GP without Gender Quota in 2005",

c("Test Treat Effect", pvals_1[c(1, 5, 13, 17, 25, 29)]),

c("Test Perf Effect in Treat", pvals_2[c(1, 5, 13, 17, 25, 29)])

c("Mean in Control not WR in 2005", control_means[c(1, 5, 13, 17, 25, 29)]),

```
##
                                                                      Dependent variab
##
                             ______
                                                 INCO5_voteshare INCSPOUSE05_running INCSP
##
                                 INCO5_running
##
                                   Model 1
                                                   Model 5 Model 13
##
                                  (1)
                                                     (2)
                                                                       (3)

      -0.27** (0.10)
      -6.76*** (2.52)
      0.07 (0.05)

      -0.09 (0.07)
      -3.03* (1.71)
      0.01 (0.04)

      0.24** (0.11)
      7.05** (2.82)
      -0.06 (0.06)

## INT_treatment
## TEMP index
                                                                      0.01 (0.04)
## TEMP_X_anytr_index
## -----
## District FE
                                     Yes
                                                        Yes
                                                                           Yes
## GP Controls
                                     Yes
                                                        Yes
                                                                           Yes
## Mean in Control not WR in 2005
                                    0.46
                                                       10.1
                                                                          0.04
## Test Treat Effect
## Test Perf Effect in Treat
## Observations
                                     92
                                                        90
                                                                           92
## R2
                                    0.42
                                                        0.53
                                                                          0.24
                                    0.26
## Adjusted R2
                                                       0.39
                                                                          0.03
                             0.42 (df = 71) 10.25 (df = 69) 0.22 (df = 71)
## Residual Std. Error
                           2.59*** (df = 20; 71) 3.88*** (df = 20; 69) 1.13 (df = 20; 71) 0.63
## F Statistic
## Note:
# Panel B
panel_B <- stargazer(</pre>
 panel_B_models,
 type = "text",
 column.labels = c("Model 37", "Model 41", "Model 49", "Model 53", "Model 61", "Model 65"),
 keep = c("INT_treatment", "TEMP_index", "TEMP_X_anytr_index"),
 add.lines = list(
   c("District FE", rep("Yes", length(panel_B_models))),
   c("GP Controls", rep("Yes", length(panel_B_models))),
   c("Mean in Control not WR in 2005", control_means[c(37, 41, 49, 53, 61, 65)]),
   c("Test Treat Effect", pvals_1[c(37, 41, 49, 53, 61, 65)]),
   c("Test Perf Effect in Treat", pvals_2[c(37, 41, 49, 53, 61, 65)])
 ),
 digits = 2,
 title = "Panel B: GP with Gender Quota in 2005",
 single.row = TRUE
## Panel B: GP with Gender Quota in 2005
##
                                                                 Dependent variable:
##
                               INC05_running INC05_voteshare INCSPOUSE05_running INCSPOUSE05
##
                                Model 37
                                             Model 41 Model 49 Model
(2) (3) (4
##
                                 (1)
                                                 (2)
                                                                  (3)
                                                                                    (4
## INT_treatment 0.15 (0.11) 2.48 (2.53) -0.27** (0.13) -5.82 (
## TEMP_index -0.03 (0.12) -0.18 (2.71) 0.07 (0.14) 4.57 (
## TEMP_X_anytr_index -0.13 (0.14) -2.54 (3.23) -0.09 (0.17) -5.11 (
```

```
## District FE
                                            Yes
                                                                Yes
                                                                                      Yes
## GP Controls
                                            Yes
                                                                Yes
                                                                                      Yes
                                                                                     0.33
## Mean in Control not WR in 2005
                                            0.15
                                                                2.5
## Test Treat Effect
## Test Perf Effect in Treat
## Observations
                                             60
                                                                 59
                                                                                      60
## R2
                                            0.37
                                                                 0.39
                                                                                     0.34
                                                                                     0.03
## Adjusted R2
                                            0.07
                                                                 0.09
## Residual Std. Error
                                      0.36 (df = 40)
                                                           8.13 \text{ (df = 39)}
                                                                               0.42 (df = 40)
                                                                                                      11.47 (d
                                    1.23 \text{ (df = 19; 40)} 1.31 \text{ (df = 19; 39)} 1.09 \text{ (df = 19; 40)}
                                                                                                    0.84 (df =
## F Statistic
## Note:
# Combine the two in one txt doc
combined_output <- c(panel_A, "\n\n", panel_B)</pre>
writeLines(combined_output, file.path("~/work/Rajasthan-Voters-Replication/Table2_Performance_2010_comp
Non formatted table, to fit into the PDF.
create_reduced_performance_table <- function(models_list, control_means, pvals_1, pvals_2) {</pre>
  # Function to extract model results
  extract_model_results <- function(model) {</pre>
    if (is.null(model)) return(NULL)
    summary_model <- summary(model)</pre>
    coef_table <- summary_model$coefficients</pre>
    target_vars <- c("INT_treatment", "TEMP_index", "TEMP_X_anytr_index")</pre>
    results <- list()
    for (var in target_vars) {
      if (var %in% rownames(coef_table)) {
        coef_val <- coef_table[var, "Estimate"]</pre>
        se_val <- coef_table[var, "Std. Error"]</pre>
        pval <- coef_table[var, "Pr(>|t|)"]
        stars <- if (pval < 0.01) "***" else if (pval < 0.05) "**" else if (pval < 0.1) "*" else ""
        results[[var]] <- list(</pre>
          coef_formatted = pasteO(round(coef_val, 3), stars),
          se formatted = paste0("(", round(se val, 3), ")")
        )
      } else {
        results[[var]] <- list(</pre>
          coef formatted = "NA",
          se_formatted = "(NA)"
      }
    }
    return(results)
  # Selection of models to display
  panel_A_indices <- c(1, 5, 13, 17, 25, 29)
```

Ye

Ye

6.1

59

0.2

-0.

```
panel_B_indices \leftarrow c(37, 41, 49, 53, 61, 65)
# Column names for the selected models
panel_A_cols <- c("Model_1", "Model_5", "Model_13", "Model_17", "Model_25", "Model_29")</pre>
panel_B_cols <- c("Model_37", "Model_41", "Model_49", "Model_53", "Model_61", "Model_65")</pre>
# Create Panel A table
panel_A_table <- data.frame(Variable = character(), stringsAsFactors = FALSE)</pre>
for (col in panel_A_cols) {
  panel_A_table[[col]] <- character()</pre>
}
# Create Panel B table
panel_B_table <- data.frame(Variable = character(), stringsAsFactors = FALSE)</pre>
for (col in panel_B_cols) {
  panel_B_table[[col]] <- character()</pre>
# Variables to extract
vars_to_extract <- c("INT_treatment", "TEMP_index", "TEMP_X_anytr_index")</pre>
# Fill Panel A
for (var in vars_to_extract) {
  coef_row <- data.frame(Variable = var, stringsAsFactors = FALSE)</pre>
  se_row <- data.frame(Variable = paste0(" ", var, "_se"), stringsAsFactors = FALSE)</pre>
  for (i in 1:length(panel_A_indices)) {
    model_idx <- panel_A_indices[i]</pre>
    col_name <- panel_A_cols[i]</pre>
    if (model_idx <= length(models_list) && !is.null(models_list[[model_idx]])) {</pre>
      results <- extract_model_results(models_list[[model_idx]])</pre>
      coef_row[[col_name]] <- if (!is.null(results[[var]])) results[[var]]$coef_formatted else "NA"</pre>
      se_row[[col_name]] <- if (!is.null(results[[var]])) results[[var]]$se_formatted else "(NA)"</pre>
    } else {
      coef_row[[col_name]] <- "NA"</pre>
      se_row[[col_name]] <- "(NA)"</pre>
    }
  }
  panel_A_table <- rbind(panel_A_table, coef_row, se_row)</pre>
}
# Fill Panel B
for (var in vars_to_extract) {
  coef_row <- data.frame(Variable = var, stringsAsFactors = FALSE)</pre>
  se_row <- data.frame(Variable = paste0(" ", var, "_se"), stringsAsFactors = FALSE)</pre>
  for (i in 1:length(panel_B_indices)) {
    model_idx <- panel_B_indices[i]</pre>
    col_name <- panel_B_cols[i]</pre>
    if (model_idx <= length(models_list) && !is.null(models_list[[model_idx]])) {</pre>
```

```
results <- extract_model_results(models_list[[model_idx]])</pre>
      coef_row[[col_name]] <- if (!is.null(results[[var]])) results[[var]]$coef_formatted else "NA"</pre>
      se_row[[col_name]] <- if (!is.null(results[[var]])) results[[var]]$se_formatted else "(NA)"
      coef_row[[col_name]] <- "NA"</pre>
      se_row[[col_name]] <- "(NA)"</pre>
  }
  panel_B_table <- rbind(panel_B_table, coef_row, se_row)</pre>
# Add additional statistics to Panel A
obs_row_A <- data.frame(Variable = "Observations", stringsAsFactors = FALSE)
for (i in 1:length(panel_A_indices)) {
  model_idx <- panel_A_indices[i]</pre>
  col_name <- panel_A_cols[i]</pre>
  if (model_idx <= length(models_list) && !is.null(models_list[[model_idx]])) {</pre>
    obs_row_A[[col_name]] <- nobs(models_list[[model_idx]])</pre>
  } else {
    obs_row_A[[col_name]] <- "NA"
}
panel_A_table <- rbind(panel_A_table, obs_row_A)</pre>
mean row A <- data.frame(Variable = "Mean in Control not WR in 2005", stringsAsFactors = FALSE)
for (i in 1:length(panel_A_indices)) {
  model_idx <- panel_A_indices[i]</pre>
  col_name <- panel_A_cols[i]</pre>
  mean_row_A[[col_name]] <- control_means[model_idx]</pre>
panel_A_table <- rbind(panel_A_table, mean_row_A)</pre>
test1_row_A <- data.frame(Variable = "Test Treat Effect", stringsAsFactors = FALSE)
test2_row_A <- data.frame(Variable = "Test Perf Effect in Treat", stringsAsFactors = FALSE)
for (i in 1:length(panel_A_indices)) {
  model_idx <- panel_A_indices[i]</pre>
  col_name <- panel_A_cols[i]</pre>
  test1_row_A[[col_name]] <- pvals_1[model_idx]</pre>
  test2_row_A[[col_name]] <- pvals_2[model_idx]</pre>
panel_A_table <- rbind(panel_A_table, test1_row_A, test2_row_A)</pre>
# Add additional statistics to Panel B
obs_row_B <- data.frame(Variable = "Observations", stringsAsFactors = FALSE)
for (i in 1:length(panel_B_indices)) {
  model_idx <- panel_B_indices[i]</pre>
  col_name <- panel_B_cols[i]</pre>
  if (model_idx <= length(models_list) && !is.null(models_list[[model_idx]])) {</pre>
    obs_row_B[[col_name]] <- nobs(models_list[[model_idx]])</pre>
  } else {
```

```
obs_row_B[[col_name]] <- "NA"
    }
  }
  panel_B_table <- rbind(panel_B_table, obs_row_B)</pre>
  mean row B <- data.frame(Variable = "Mean in Control not WR in 2005", stringsAsFactors = FALSE)
  for (i in 1:length(panel_B_indices)) {
    model idx <- panel B indices[i]</pre>
    col name <- panel B cols[i]</pre>
    mean_row_B[[col_name]] <- control_means[model_idx]</pre>
  panel_B_table <- rbind(panel_B_table, mean_row_B)</pre>
  test1_row_B <- data.frame(Variable = "Test Treat Effect", stringsAsFactors = FALSE)
  test2_row_B <- data.frame(Variable = "Test Perf Effect in Treat", stringsAsFactors = FALSE)
  for (i in 1:length(panel_B_indices)) {
    model_idx <- panel_B_indices[i]</pre>
    col_name <- panel_B_cols[i]</pre>
    test1_row_B[[col_name]] <- pvals_1[model_idx]</pre>
    test2_row_B[[col_name]] <- pvals_2[model_idx]</pre>
  panel_B_table <- rbind(panel_B_table, test1_row_B, test2_row_B)</pre>
  return(list(panel_A = panel_A_table, panel_B = panel_B_table))
}
# Create the reduced tables
reduced_tables <- create_reduced_performance_table(models_list, control_means, pvals_1, pvals_2)
# Display the tables
print("=== PANEL A: GP without Gender Quota in 2005 ===")
## [1] "=== PANEL A: GP without Gender Quota in 2005 ==="
print(reduced_tables$panel_A)
##
                             Variable Model_1
                                                  Model_5
## 1
                        INT_treatment -0.266** -6.761***
## 2
                     INT_treatment_se
                                       (0.101)
                                                  (2.515)
## 3
                           TEMP_index
                                        -0.089
                                                  -3.031*
## 4
                        TEMP index se (0.069)
                                                  (1.713)
## 5
                  TEMP_X_anytr_index 0.235**
                                                  7.048**
## 6
               TEMP_X_anytr_index_se
                                        (0.114)
                                                    (2.82)
## 7
                         Observations
                                             92
                                                       90
## 8
      Mean in Control not WR in 2005
                                           0.46
                                                      10.1
## 9
                    Test Treat Effect
                                           <NA>
                                                      <NA>
           Test Perf Effect in Treat
                                                      <NA>
## 10
                                           <NA>
##
      Model 13 Model 17 Model 25 Model 29
## 1
         0.066
                  0.597
                            0.104
                                     1.441
## 2
       (0.055)
                   (1.2)
                          (0.069)
                                   (0.994)
## 3
         0.014
                 -0.162
                           -0.016
                                    -0.507
## 4
       (0.037)
                (0.817)
                          (0.047)
                                   (0.677)
## 5
        -0.055
                 -0.437
                           -0.018
                                     1.053
       (0.061) (1.345)
## 6
                         (0.078) (1.115)
```

```
## 7
            92
                      90
                                92
                                         90
## 8
          0.04
                    0.73
                              0.08
                                       0.86
## 9
          <NA>
                    <NA>
                              <NA>
                                       <NA>
## 10
          <NA>
                    <NA>
                              <NA>
                                       <NA>
print("\n=== PANEL B: GP with Gender Quota in 2005 ===")
## [1] "n=== PANEL B: GP with Gender Quota in 2005 ==="
print(reduced_tables$panel_B)
##
                              Variable Model_37 Model_41
## 1
                                           0.15
                                                    2.479
                        INT treatment
## 2
                     INT treatment se
                                        (0.113)
                                                  (2.535)
## 3
                           TEMP_index
                                         -0.033
                                                  -0.182
## 4
                        TEMP_index_se
                                        (0.121)
                                                  (2.714)
## 5
                   TEMP_X_anytr_index
                                                   -2.542
                                         -0.133
## 6
                TEMP_X_anytr_index_se
                                        (0.143)
                                                  (3.227)
## 7
                         Observations
                                              60
                                                       59
## 8
      Mean in Control not WR in 2005
                                            0.15
                                                      2.5
## 9
                    Test Treat Effect
                                            < NA >
                                                     < NA >
## 10
           Test Perf Effect in Treat
                                            <NA>
                                                     <NA>
##
      Model_49 Model_53 Model_61 Model_65
      -0.268**
                  -5.815
                            0.123
## 1
                                      2.493
## 2
        (0.13)
                 (3.577)
                          (0.073)
                                    (2.615)
## 3
         0.066
                           -0.005
                                       1.32
                   4.566
## 4
        (0.14)
                 (3.829)
                          (0.078)
                                      (2.8)
## 5
         -0.09
                 -5.115
                           0.165*
                                      1.288
## 6
       (0.166)
                 (4.553)
                          (0.093)
                                    (3.329)
## 7
            60
                      59
                                60
                                         59
## 8
          0.33
                    6.15
                                 0
                                          0
## 9
          <NA>
                    <NA>
                              <NA>
                                       <NA>
## 10
          <NA>
                    <NA>
                              <NA>
                                       <NA>
```

Table 3 - Challengers 2010

Required libraries.

```
library(dplyr)
library(fixest)
library(stargazer)
library(haven)
library(broom)
library(aod)
```

Defining the macros: controls, interest and dependent variables.

Data processing.

```
data_path <- "~/work/Electoral data cleaned.dta"
data <- read_dta(data_path)</pre>
data_filtered <- data %>% filter(RES10_gender == 0, GP_tag == 1)
Function for the regressions.
run_regression_analysis <- function(data_subset, subset_name) {</pre>
  cat(paste("\n=== ANALYZE FOR:", subset_name, "===\n"))
  cat("Number of observations:", nrow(data_subset), "\n")
  results list <- list()
  for (i in seq_along(dep_vars)) {
    dep_var <- dep_vars[i]</pre>
    cat(paste(" Dependent variable:", dep_var, "\n"))
    if (!dep var %in% names(data subset)) {
      cat(paste(" ATTENTION: Variable", dep_var, "not found!\n"))
      next
    }
    control_subset <- data_subset %>% filter(INT_treatment == 0, RES05_gender == 0)
    control_mean <- if (nrow(control_subset) == 0) NA else control_subset %>%
      summarise(mean_val = mean(!!sym(dep_var), na.rm = TRUE)) %>%
      pull(mean_val) %>%
      round(2)
                    Control mean (non-previously gender-reserved): ", control mean, "\n"))
    cat(paste("
    available_controls <- gpcontrols[gpcontrols %in% names(data_subset)]
    reg_vars <- c(outregvar2, available_controls)</pre>
    reg_vars <- reg_vars[reg_vars %in% names(data_subset)]</pre>
    formula_str <- paste(dep_var, "~", paste(reg_vars, collapse = " + "), "+ factor(district)")</pre>
    tryCatch({
      model <- lm(as.formula(formula_str), data = data_subset)</pre>
      coef_names <- names(coef(model))</pre>
      res05_coef <- coef_names[grep1("RES05_gender", coef_names)]</pre>
      anytr_coef <- coef_names[grepl("X_anytr_genderres05", coef_names)]</pre>
      if (length(res05_coef) > 0 && length(anytr_coef) > 0) {
        L <- matrix(0, nrow = 1, ncol = length(coef(model)))</pre>
        names L <- names(coef(model))</pre>
        L[1, which(names_L == res05_coef[1])] <- 1
        L[1, which(names_L == anytr_coef[1])] <- 1
        restriction <- L %*% coef(model)
        var_restriction <- L %*% vcov(model) %*% t(L)</pre>
        wald_stat <- as.numeric(restriction^2 / var_restriction)</pre>
        pval <- round(1 - pchisq(wald_stat, df = 1), 3)</pre>
      } else {
```

```
pval <- NA
      results list[[i]] <- list(
       model = model,
        dep_var = dep_var,
        control_mean = control_mean,
        joint_test_pval = pval,
       subset = subset_name,
        formula = formula_str,
       n_obs = nrow(model$model)
      )
   }, error = function(e) {
      cat(paste("
                     ERROR in the regression:", e$message, "\n"))
      results_list[[i]] <- NULL
   })
  }
  results_list <- results_list[!sapply(results_list, is.null)]</pre>
  return(results_list)
We then split the analysis into three sub-samples.
results_full <- run_regression_analysis(data_filtered, "Full Sample")
## === ANALYZE FOR: Full Sample ===
## Number of observations: 382
   Dependent variable: ELEC10_nbcands
##
       Control mean (non-previously gender-reserved): 7.39
   Dependent variable: CHAL_nbchal
##
##
       Control mean (non-previously gender-reserved): 7.14
##
  Dependent variable: CHAL_prop_female
##
       Control mean (non-previously gender-reserved): 0.13
##
   Dependent variable: CHAL_voteshare_female
##
       Control mean (non-previously gender-reserved): 12.89
   Dependent variable: CHAL_prop_nongen
##
##
       Control mean (non-previously gender-reserved): 0.79
   Dependent variable: CHAL_voteshare_nongen
##
##
       Control mean (non-previously gender-reserved): 78.7
data_inc_can_run <- data_filtered %>% filter(INCO5_can_run == 1)
results_inc_can <- run_regression_analysis(data_inc_can_run, "Incumbent Can Run")
##
## === ANALYZE FOR: Incumbent Can Run ===
## Number of observations: 245
##
   Dependent variable: ELEC10_nbcands
##
       Control mean (non-previously gender-reserved): 7.36
   Dependent variable: CHAL_nbchal
##
##
       Control mean (non-previously gender-reserved): 6.96
##
  Dependent variable: CHAL_prop_female
       Control mean (non-previously gender-reserved): 0.11
```

```
Dependent variable: CHAL_voteshare_female
##
##
       Control mean (non-previously gender-reserved): 10.74
##
   Dependent variable: CHAL_prop_nongen
       Control mean (non-previously gender-reserved): 0.66
##
##
   Dependent variable: CHAL_voteshare_nongen
       Control mean (non-previously gender-reserved): 66.04
##
data_inc_cannot_run <- data_filtered %>% filter(INCO5_can_run == 0)
results inc cannot <- run regression analysis(data inc cannot run, "Incumbent Cannot Run")
##
## === ANALYZE FOR: Incumbent Cannot Run ===
## Number of observations: 137
   Dependent variable: ELEC10_nbcands
##
       Control mean (non-previously gender-reserved): 7.45
##
   Dependent variable: CHAL_nbchal
##
       Control mean (non-previously gender-reserved): 7.45
##
   Dependent variable: CHAL_prop_female
       Control mean (non-previously gender-reserved): 0.16
##
##
   Dependent variable: CHAL_voteshare_female
##
       Control mean (non-previously gender-reserved): 16.51
   Dependent variable: CHAL_prop_nongen
##
##
       Control mean (non-previously gender-reserved): 1
##
   Dependent variable: CHAL_voteshare_nongen
##
       Control mean (non-previously gender-reserved): 100
Output table into three panels, on the same .txt file.
# Regression for each sample (each panel)
results full <- run regression analysis(data filtered, "Full Sample")
##
## === ANALYZE FOR: Full Sample ===
## Number of observations: 382
   Dependent variable: ELEC10_nbcands
       Control mean (non-previously gender-reserved): 7.39
##
   Dependent variable: CHAL_nbchal
##
##
       Control mean (non-previously gender-reserved): 7.14
##
   Dependent variable: CHAL_prop_female
       Control mean (non-previously gender-reserved): 0.13
##
   Dependent variable: CHAL_voteshare_female
##
       Control mean (non-previously gender-reserved): 12.89
##
##
   Dependent variable: CHAL_prop_nongen
       Control mean (non-previously gender-reserved): 0.79
##
##
   Dependent variable: CHAL_voteshare_nongen
       Control mean (non-previously gender-reserved): 78.7
##
results_inc_can <- run_regression_analysis(data_inc_can_run, "Incumbent Can Run")
##
## === ANALYZE FOR: Incumbent Can Run ===
## Number of observations: 245
   Dependent variable: ELEC10 nbcands
##
       Control mean (non-previously gender-reserved): 7.36
##
   Dependent variable: CHAL_nbchal
##
       Control mean (non-previously gender-reserved): 6.96
   Dependent variable: CHAL_prop_female
```

```
Dependent variable: CHAL_prop_nongen
##
##
       Control mean (non-previously gender-reserved): 0.66
    Dependent variable: CHAL voteshare nongen
##
       Control mean (non-previously gender-reserved): 66.04
##
results inc cannot <- run regression analysis(data inc cannot run, "Incumbent Cannot Run")
##
## === ANALYZE FOR: Incumbent Cannot Run ===
## Number of observations: 137
    Dependent variable: ELEC10_nbcands
##
       Control mean (non-previously gender-reserved): 7.45
##
    Dependent variable: CHAL_nbchal
##
       Control mean (non-previously gender-reserved): 7.45
##
    Dependent variable: CHAL_prop_female
       Control mean (non-previously gender-reserved): 0.16
##
##
    Dependent variable: CHAL_voteshare_female
##
       Control mean (non-previously gender-reserved): 16.51
##
   Dependent variable: CHAL_prop_nongen
##
       Control mean (non-previously gender-reserved): 1
##
    Dependent variable: CHAL_voteshare_nongen
##
       Control mean (non-previously gender-reserved): 100
# Extract the results
panel_A_models <- lapply(results_full, function(x) x$model)</pre>
panel_B_models <- lapply(results_inc_can, function(x) x$model)</pre>
panel_C_models <- lapply(results_inc_cannot, function(x) x$model)</pre>
# Extract control means and p values for additional rows
control_means <- sapply(results_full, function(x) x$control_mean)</pre>
pvals <- sapply(results_full, function(x) x$joint_test_pval)</pre>
# Table for each panel, then combined into one txt file
panel_A <- stargazer(</pre>
  panel_A_models,
  type = "text",
  column.labels = c("Model 1", "Model 2", "Model 3", "Model 4", "Model 5", "Model 6"),
  keep = c("INT_treatment", "RES05_gender", "X_anytr_genderres05"),
  add.lines = list(
    c("District FE", rep("Yes", length(panel_A_models))),
    c("GP Controls", rep("Yes", length(panel_A_models))),
    c("Mean in Control not WR in 2005", control_means),
    c("Test Treat Effect", pvals)
  ),
  digits = 2,
  title = "Panel A: All GPs",
  single.row = TRUE
)
##
## Panel A: All GPs
##
                                                                                                 Dependent
```

Control mean (non-previously gender-reserved): 0.11

Control mean (non-previously gender-reserved): 10.74

Dependent variable: CHAL_voteshare_female

##

##

##

```
##
##
                                                                            formu
##
                               Model 1
                                                Model 2
                                                                  Model 3
##
                                (1)
                                                 (2)
                                                                    (3)
## -----
                                                               0.01 (0.03)
0.01 (0.03)
                            0.31 (0.56)
                                               0.38 (0.56)
## INT treatment
                                             1.22** (0.58)
## RES05 gender
                             1.03* (0.58)
                            -0.79 (0.93) -0.90 (0.94) -0.0004 (0.04)
## X_anytr_genderres05
## District FE
                                 Yes
                                                   Yes
                                                                      Yes
## GP Controls
                                 Yes
                                                   Yes
                                                                     Yes
                                 7.39
                                                   7.14
## Mean in Control not WR in 2005
                                                                      0.13
## Test Treat Effect
                                 0.76
                                                  0.694
                                                                   0.793
## Observations
                                 382
                                                   382
                                                                      382
## R2
                                 0.18
                                                   0.18
                                                                      0.11
## Adjusted R2
                                 0.14
                                                   0.14
                                                                      0.06
                      3.95 (df = 361) 3.96 (df = 361) 0.19 (df = 361)
4.06*** (df = 20; 361) 4.08*** (df = 20; 361) 2.16*** (df = 20; 361)
## Residual Std. Error
## F Statistic
panel_B <- stargazer(</pre>
 panel_B_models,
 type = "text",
 column.labels = c("Model 1", "Model 2", "Model 3", "Model 4", "Model 5", "Model 6"),
 keep = c("INT treatment", "RES05 gender", "X anytr genderres05"),
 add.lines = list(
  c("District FE", rep("Yes", length(panel_B_models))),
   c("GP Controls", rep("Yes", length(panel_B_models))),
   c("Mean in Control not WR in 2005", control_means),
  c("Test Treat Effect", pvals)
 ),
 digits = 2,
 title = "Panel B: Incumbent Can Run",
 single.row = TRUE
##
## Panel B: Incumbent Can Run
                                                                         Dependent
##
##
                                                                            formul
##
                               Model 1
                                                Model 2
                                                                    Model 3
                                                                     (3)
                                (1)
## -----
## INT treatment
                              0.83 (0.77)
                                               0.99 (0.77)
                                                                0.07** (0.03)
                                              1.46** (0.70)
-1 49 (1 15)
## RES05 gender
                             1.14 (0.70)
                                                                 -0.01 (0.03)
                              -1.27 (1.15)
                                               -1.49 (1.15)
                                                                 -0.05 (0.05)
## X_anytr_genderres05
## District FE
                                 Yes
                                                   Yes
                                                                      Yes
## GP Controls
                                 Yes
                                                   Yes
                                                                     Yes
## Mean in Control not WR in 2005
                                 7.39
                                                   7.14
                                                                     0.13
## Test Treat Effect
                                 0.76
                                                  0.694
                                                                     0.793
## Observations
                                 245
                                                  245
                                                                     245
```

```
## R2
                                  0.21
                                                    0.22
                                                                      0.16
## Adjusted R2
                                                                      0.09
                                  0.14
                                                    0.15
                      3.91 (df = 224) 3.91 (df = 224) 0.18 (df = 224) 3.01*** (df = 20; 224) 3.16*** (df = 20; 224) 2.14*** (df = 20; 224)
## Residual Std. Error
## F Statistic
## Note:
panel_C <- stargazer(</pre>
 panel_C_models,
 type = "text",
 column.labels = c("Model 1", "Model 2", "Model 3", "Model 4", "Model 5", "Model 6"),
 keep = c("INT_treatment", "RES05_gender", "X_anytr_genderres05"),
 add.lines = list(
   c("District FE", rep("Yes", length(panel_C_models))),
   c("GP Controls", rep("Yes", length(panel_C_models))),
   c("Mean in Control not WR in 2005", control_means),
  c("Test Treat Effect", pvals)
 ),
 digits = 2,
 title = "Panel C: Incumbent Cannot Run",
 single.row = TRUE
##
## Panel C: Incumbent Cannot Run
##
                                                                    Dependent variab
##
##
                                                                      formula str
##
                                                 Model 2
                                                                   Model 3
                               Model 1
                                (1)
                                                  (2)
                                                                    (3)
## ------
## INT treatment
                             0.17 (0.90)
                                                0.17 (0.90)
                                                                  -0.03(0.05)
                            1.06 (1.05)
                                              1.02 (1.05)
                                                                 0.03 (0.05)
## RES05_gender
                                                                0.002 (0.09)
                              -0.76 (1.77)
## X_anytr_genderres05
                                                -0.72(1.77)
## District FE
                                 Yes
                                                    Yes
## GP Controls
                                 Yes
                                                    Yes
                                                                     Yes
## Mean in Control not WR in 2005
                                 7.39
                                                    7.14
                                                                     0.13
## Test Treat Effect
                                 0.76
                                                  0.694
                                                                   0.793
## Observations
                                 137
                                                   137
                                                                     137
## R2
                                  0.29
                                                    0.29
                                                                     0.20
## Adjusted R2
                                 0.17
                                                    0.17
                                                                     0.07
                           3.94 (df = 117)
                                             3.94 (df = 117)
                                                               0.20 \text{ (df = } 117)
## Residual Std. Error
                        2.48*** (df = 19; 117) 2.48*** (df = 19; 117) 1.58* (df = 19; 117) 1.
## F Statistic
## Note:
# Combine three panels
combined_output <- c(panel_A, "\n\n", panel_B, "\n\n", panel_C)</pre>
writeLines(combined_output, "Table3_Challengers_2010_completed.txt")
Non-formatted table to fit in the PDF:
```

create_outreg_table <- function(results_list_full, results_list_inc, results_list_no_inc) {</pre>

extract_model_results <- function(model_result) {</pre>

```
if (is.null(model_result) || is.null(model_result$model)) return(NULL)
 model <- model_result$model</pre>
  summary_model <- summary(model)</pre>
 coef_table <- summary_model$coefficients</pre>
 results <- list()
 for (var in outregvar2) {
    matching_vars <- rownames(coef_table)[grepl(var, rownames(coef_table))]</pre>
    if (length(matching_vars) > 0) {
      var_name <- matching_vars[1]</pre>
      coef_val <- coef_table[var_name, "Estimate"]</pre>
      se_val <- coef_table[var_name, "Std. Error"]</pre>
      pval <- coef_table[var_name, "Pr(>|t|)"]
      stars <- if (pval < 0.01) "***" else if (pval < 0.05) "**" else if (pval < 0.1) "*" else ""
      results[[var]] <- list(</pre>
        coef = round(coef_val, 3),
        se = round(se_val, 3),
        pval = pval,
        stars = stars,
        coef_formatted = pasteO(round(coef_val, 3), stars),
        se_formatted = paste0("(", round(se_val, 3), ")")
    } else {
      results[[var]] <- list(
        coef = NA,
        se = NA,
        pval = NA,
        stars = "",
        coef_formatted = "NA",
        se_formatted = "(NA)"
   }
 }
 return(results)
final table <- data.frame(</pre>
 Variable = character(),
 Full_Sample = character(),
 Inc_Can_Run = character(),
 Inc_Cannot_Run = character(),
  stringsAsFactors = FALSE
for (i in seq_along(dep_vars)) {
 dep_var <- dep_vars[i]</pre>
 full_results <- if (i <= length(results_list_full)) extract_model_results(results_list_full[[i]]) e
  inc_results <- if (i <= length(results_list_inc)) extract_model_results(results_list_inc[[i]]) else</pre>
 no_inc_results <- if (i <= length(results_list_no_inc)) extract_model_results(results_list_no_inc[[
```

```
for (var in outregvar2) {
      coef_row <- data.frame(</pre>
        Variable = var,
        Full_Sample = if (!is.null(full_results[[var]])) full_results[[var]]$coef_formatted else "NA",
        Inc_Can_Run = if (!is.null(inc_results[[var]])) inc_results[[var]]$coef_formatted else "NA",
        Inc_Cannot_Run = if (!is.null(no_inc_results[[var]])) no_inc_results[[var]]$coef_formatted else
        stringsAsFactors = FALSE
      se_row <- data.frame(</pre>
        Variable = paste0("
                              ", var, "_se"),
        Full_Sample = if (!is.null(full_results[[var]])) full_results[[var]] $se_formatted else "(NA)",
        Inc Can Run = if (!is.null(inc results[[var]])) inc results[[var]] $se formatted else "(NA)",
        Inc_Cannot_Run = if (!is.null(no_inc_results[[var]])) no_inc_results[[var]]$se_formatted else "
        stringsAsFactors = FALSE
      )
      final_table <- rbind(final_table, coef_row, se_row)</pre>
    }
  }
  return(final_table)
}
main_table <- create_outreg_table(results_full, results_inc_can, results_inc_cannot)</pre>
print(main_table)
##
                       Variable Full_Sample Inc_Can_Run
## 1
                  INT_treatment
                                       0.305
                                                    0.835
## 2
                                      (0.56)
                                                  (0.768)
              INT_treatment_se
## 3
                   RES05_gender
                                      1.035*
                                                    1.143
## 4
               RES05_gender_se
                                     (0.575)
                                                  (0.704)
## 5
           X_anytr_genderres05
                                                    -1.27
                                      -0.789
## 6
        X_anytr_genderres05_se
                                     (0.933)
                                                  (1.155)
## 7
                  INT_treatment
                                       0.385
                                                    0.986
## 8
              INT_treatment_se
                                     (0.562)
                                                  (0.768)
## 9
                   RES05_gender
                                     1.221**
                                                  1.459**
## 10
                                                  (0.704)
               RES05_gender_se
                                     (0.577)
## 11
           X_anytr_genderres05
                                      -0.904
                                                    -1.49
## 12
        X_anytr_genderres05_se
                                     (0.935)
                                                  (1.154)
## 13
                  INT_treatment
                                       0.006
                                                  0.068**
## 14
              INT_treatment_se
                                     (0.027)
                                                  (0.034)
## 15
                   RES05_gender
                                        0.01
                                                   -0.007
## 16
               RES05_gender_se
                                     (0.027)
                                                  (0.032)
## 17
           X_anytr_genderres05
                                                   -0.051
## 18
        X_anytr_genderres05_se
                                     (0.045)
                                                  (0.052)
## 19
                  INT_treatment
                                      -2.805
                                                    2.447
## 20
              INT_treatment_se
                                     (2.966)
                                                  (3.668)
## 21
                   RES05_gender
                                       4.089
                                                    3.466
## 22
               RES05_gender_se
                                     (3.012)
                                                  (3.336)
## 23
           X_anytr_genderres05
                                       0.534
                                                   -5.082
## 24
        X_anytr_genderres05_se
                                     (4.926)
                                                  (5.522)
## 25
                  INT_treatment
                                     0.069**
                                                   0.095*
## 26
              INT_treatment_se
                                     (0.033)
                                                  (0.056)
```

```
## 27
                   RES05_gender
                                        0.045
                                                    0.086*
## 28
                RES05_gender_se
                                      (0.034)
                                                   (0.051)
## 29
                                                     -0.07
           X_anytr_genderres05
                                       -0.054
## 30
                                                   (0.084)
        X_anytr_genderres05_se
                                      (0.055)
##
  31
                  INT_treatment
                                      7.488**
                                                   10.094*
## 32
               INT_treatment_se
                                                   (5.914)
                                      (3.539)
## 33
                   RES05_gender
                                        4.088
                                                     8.289
## 34
                RES05_gender_se
                                      (3.594)
                                                   (5.379)
           X_anytr_genderres05
## 35
                                       -7.827
                                                    -10.16
## 36
        X_anytr_genderres05_se
                                      (5.877)
                                                   (8.904)
##
      Inc_Cannot_Run
## 1
                0.174
## 2
              (0.901)
## 3
                 1.06
## 4
              (1.047)
## 5
               -0.759
## 6
              (1.769)
## 7
                0.174
## 8
              (0.901)
## 9
                1.023
## 10
              (1.047)
## 11
               -0.717
## 12
              (1.769)
## 13
               -0.033
## 14
              (0.046)
## 15
                0.032
## 16
              (0.054)
##
  17
                0.002
## 18
              (0.091)
## 19
               -6.197
## 20
               (5.45)
## 21
                4.313
## 22
               (6.26)
## 23
                0.789
## 24
             (10.645)
## 25
## 26
              (0.008)
## 27
               -0.016
## 28
               (0.01)
## 29
                0.018
##
  30
              (0.016)
## 31
                0.004
##
  32
              (1.261)
## 33
                -2.36
## 34
              (1.449)
## 35
                2.643
## 36
              (2.464)
```

Table 4- Candidates 2015

Required libraries.

```
library(tidyverse)
library(fixest)
```

```
library(stargazer)
library(haven)
```

Defining the macros: controls, regression variables.

Data processing: upload and filter.

```
# Change path depending on your workspace.
data <- read dta("~/work/Electoral data 2015 cleaned.dta")</pre>
# Filtering the data
data_filtered <- data %>%
  filter(RES10_gender == 0, GP_tag == 1, RES15_gender == 0) %>%
  mutate(
   INC10_{can_{run}} = 1,
   INC10_can_run = ifelse(ELEC10_won_female == 0 & RES15_gender == 1, 0, INC10_can_run),
   INC10_can_run = ifelse(ELEC10_won_sc == 0 & RES15_sc == 1, 0, INC10_can_run),
   INC10_can_run = ifelse(ELEC10_won_st == 0 & RES15_st == 1, 0, INC10_can_run)
  )
# Generate new variables
for (var in c("INT_treatment", "X_anytr_genderres05", "RES05_gender")) {
 data_filtered <- data_filtered %>%
   mutate(!!paste0("X15_", var) := get(var) * (RES15_gender == 1))
}
```

Variables of the regression.

Lists to stock the results.

```
models_list <- list()
control_means <- numeric(length(dep_vars))
pvals <- numeric(length(dep_vars))</pre>
```

Regressions.

```
for (i in seq_along(dep_vars)) {
  dep_var <- dep_vars[i]

# control mean
  control_mean <- data_filtered %>%
```

```
filter(INT_treatment == 0 & RES05_gender == 0) %>%
    summarise(mean = mean(!!sym(dep_var), na.rm = TRUE)) %>%
    pull(mean) %>%
   round(2)
  control_means[i] <- control_mean</pre>
  # model estimation
  formula <- as.formula(paste(dep_var, "~", paste(c(outregvar2, gpcontrols15), collapse = " + "), "+ fa
  model <- lm(formula, data = data_filtered)</pre>
  models_list[[i]] <- model</pre>
  # do the test
 test_result <- summary(lm(test = RES05_gender + X_anytr_genderres05, data = model$model))$coefficient
  pvals[i] <- round(test_result, 2)</pre>
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## extra argument 'test' will be disregarded
Output table in .txt file.
stargazer(models_list,
          type = "text",
          column.labels = paste("Model", 1:length(dep_vars)),
          keep = outregvar2,
          add.lines = list(
            c("District FE", rep("Yes", length(dep_vars))),
            c("GP Controls", rep("Yes", length(dep_vars))),
            c("Mean in Control not WR in 2015", control_means),
            c("Test Treat Effect in WR=Treat Effect in NWR", pvals)
          ),
          digits = 2,
          title = "Table 4: Effects on Candidates - 2015",
          out = file.path("~/work/Rajasthan-Voters-Replication/Table4_Candidates_2015.txt"))
## Table 4: Effects on Candidates - 2015
```

```
##
##
                                                                                                                                                                             ELEC15_nbcands ELEC15_incum10_running ELEC15_voteshare_incum10_running ELEC15_voteshare_incum10_run
##
##
                                                                                                                                                                                         Model 1
                                                                                                                                                                                                                                                          Model 2
                                                                                                                                                                                               0.35
                                                                                                                                                                                                                                                                   0.07
## INT treatment
                                                                                                                                                                                                                                                                                                                                                           2.62**
##
                                                                                                                                                                                             (1.21)
                                                                                                                                                                                                                                                                 (0.05)
                                                                                                                                                                                                                                                                                                                                                            (1.29)
##
                                                                                                                                                                                               0.82
                                                                                                                                                                                                                                                         0.12***
                                                                                                                                                                                                                                                                                                                                                            2.42**
## RES05_gender
##
                                                                                                                                                                                             (1.13)
                                                                                                                                                                                                                                                                  (0.05)
                                                                                                                                                                                                                                                                                                                                                            (1.20)
                                                                                                                                                                                             -2.57
                                                                                                                                                                                                                                                                                                                                                           -3.72*
## X_anytr_genderres05
                                                                                                                                                                                                                                                                  -0.14*
##
                                                                                                                                                                                             (1.89)
                                                                                                                                                                                                                                                                   (0.08)
                                                                                                                                                                                                                                                                                                                                                            (2.00)
##
## District FE
                                                                                                                                                                                                                                                                      Yes
                                                                                                                                                                                                Yes
                                                                                                                                                                                                                                                                                                                                                               Yes
## GP Controls
                                                                                                                                                                                                                                                                     Yes
                                                                                                                                                                                                                                                                                                                                                               Yes
                                                                                                                                                                                                Yes
## Mean in Control not WR in 2015
                                                                                                                                                                                               7.83
                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                   0
## Test Treat Effect in WR=Treat Effect in NWR
                                                                                                                                                                                               0.77
                                                                                                                                                                                                                                                                      0.16
                                                                                                                                                                                                                                                                                                                                                               0.05
## Observations
                                                                                                                                                                                                   89
                                                                                                                                                                                                                                                                       89
                                                                                                                                                                                                                                                                                                                                                                   89
## R2
                                                                                                                                                                                                0.32
                                                                                                                                                                                                                                                                      0.29
                                                                                                                                                                                                                                                                                                                                                               0.27
## Adjusted R2
                                                                                                                                                                                               0.08
                                                                                                                                                                                                                                                                     0.03
                                                                                                                                                                                                                                                                                                                                                               0.02
## Residual Std. Error (df = 65)
                                                                                                                                                                                               3.65
                                                                                                                                                                                                                                                                     0.15
                                                                                                                                                                                                                                                                                                                                                               3.87
## F Statistic (df = 23; 65)
                                                                                                                                                                                               1.32
                                                                                                                                                                                                                                                                      1.13
                                                                                                                                                                                                                                                                                                                                                               1.06
## Note:
```

Non formatted table to fit into the PDF.

```
create_regression_table <- function(models_list, dep_vars, outregvar2) {</pre>
  extract model results <- function(model) {</pre>
    if (is.null(model)) return(NULL)
    summary_model <- summary(model)</pre>
    coef_table <- summary_model$coefficients</pre>
    results <- list()
    for (var in outregvar2) {
      if (var %in% rownames(coef_table)) {
        coef_val <- coef_table[var, "Estimate"]</pre>
        se_val <- coef_table[var, "Std. Error"]</pre>
        pval <- coef_table[var, "Pr(>|t|)"]
        stars <- if (pval < 0.01) "***" else if (pval < 0.05) "**" else if (pval < 0.1) "*" else ""
        results[[var]] <- list(
          coef = round(coef_val, 3),
          se = round(se_val, 3),
          pval = pval,
          stars = stars,
          coef_formatted = pasteO(round(coef_val, 3), stars),
          se_formatted = paste0("(", round(se_val, 3), ")")
        )
      } else {
```

```
results[[var]] <- list(</pre>
          coef = NA,
          se = NA,
          pval = NA,
          stars = "",
          coef_formatted = "NA",
          se_formatted = "(NA)"
      }
    }
    return(results)
  final_table <- data.frame(</pre>
    Variable = character(),
    stringsAsFactors = FALSE
  for (i in seq_along(dep_vars)) {
    dep_var <- dep_vars[i]</pre>
    model_results <- extract_model_results(models_list[[i]])</pre>
    for (var in outregvar2) {
      coef_row <- data.frame(</pre>
        Variable = var,
        stringsAsFactors = FALSE
      se_row <- data.frame(</pre>
        Variable = paste0(" ", var, "_se"),
        stringsAsFactors = FALSE
      for (j in seq_along(models_list)) {
        col_name <- paste0("Model_", j)</pre>
        coef_row[[col_name]] <- if (!is.null(model_results[[var]])) model_results[[var]]$coef_formatted</pre>
        se_row[[col_name]] <- if (!is.null(model_results[[var]])) model_results[[var]]$se_formatted els
      final_table <- rbind(final_table, coef_row, se_row)</pre>
    }
 }
 return(final_table)
}
regression_table <- create_regression_table(models_list, dep_vars, outregvar2)</pre>
print(regression_table)
##
                       Variable Model_1 Model_2 Model_3
## 1
                  INT_treatment
                                                       0.349
                                   0.349
                                             0.349
## 2
              INT_treatment_se (1.214) (1.214)
                                                    (1.214)
## 3
                   RES05_gender
                                  0.818
                                             0.818
                                                     0.818
## 4
               RES05_gender_se (1.132) (1.132) (1.132)
```

```
## 5
            X_anytr_genderres05
                                    -2.575
                                              -2.575
                                                        -2.575
## 6
        X_anytr_genderres05_se
                                    (1.89)
                                              (1.89)
                                                        (1.89)
## 7
                  INT treatment
                                     0.069
                                               0.069
                                                         0.069
## 8
               INT_treatment_se
                                   (0.049)
                                             (0.049)
                                                       (0.049)
## 9
                   RES05_gender 0.122***
                                           0.122*** 0.122***
## 10
                RES05 gender se
                                   (0.045)
                                             (0.045)
                                                       (0.045)
## 11
            X anytr genderres05
                                   -0.136*
                                             -0.136*
                                                       -0.136*
        X_anytr_genderres05_se
## 12
                                   (0.076)
                                             (0.076)
                                                       (0.076)
## 13
                  INT_treatment
                                   2.625 **
                                             2.625 **
                                                       2.625 **
##
  14
               INT_treatment_se
                                   (1.286)
                                             (1.286)
                                                       (1.286)
##
  15
                   RES05_gender
                                   2.424**
                                             2.424**
                                                       2.424**
##
  16
                RES05_gender_se
                                   (1.198)
                                             (1.198)
                                                       (1.198)
##
   17
            X_anytr_genderres05
                                   -3.715*
                                             -3.715*
                                                       -3.715*
## 18
        X_anytr_genderres05_se
                                   (2.001)
                                             (2.001)
                                                       (2.001)
## 19
                                     0.005
                  INT_treatment
                                               0.005
                                                         0.005
## 20
               INT_treatment_se
                                   (0.021)
                                             (0.021)
                                                       (0.021)
##
  21
                   RES05_gender
                                    -0.014
                                              -0.014
                                                        -0.014
##
  22
                RES05_gender_se
                                    (0.02)
                                              (0.02)
                                                        (0.02)
##
  23
                                               0.012
           X_anytr_genderres05
                                     0.012
                                                         0.012
        X_anytr_genderres05_se
##
  24
                                   (0.033)
                                             (0.033)
                                                       (0.033)
##
  25
                  INT_treatment
                                     0.678
                                               0.678
                                                         0.678
##
  26
               INT_treatment_se
                                   (3.008)
                                             (3.008)
                                                       (3.008)
## 27
                   RES05_gender
                                    -2.227
                                              -2.227
                                                        -2.227
  28
##
                RES05_gender_se
                                   (2.804)
                                             (2.804)
                                                       (2.804)
## 29
            X_anytr_genderres05
                                     2.976
                                               2.976
                                                         2.976
##
  30
        X_anytr_genderres05_se
                                   (4.682)
                                             (4.682)
                                                       (4.682)
##
  31
                  INT_treatment
                                   0.183**
                                             0.183**
                                                       0.183**
   32
##
               INT_treatment_se
                                   (0.083)
                                             (0.083)
                                                       (0.083)
##
  33
                                     0.025
                                               0.025
                   RES05_gender
                                                         0.025
##
  34
                RES05_gender_se
                                   (0.077)
                                             (0.077)
                                                       (0.077)
## 35
            X_anytr_genderres05
                                    -0.059
                                              -0.059
                                                        -0.059
##
   36
        X_anytr_genderres05_se
                                   (0.129)
                                             (0.129)
                                                       (0.129)
  37
##
                  INT_treatment
                                   17.391*
                                             17.391*
                                                       17.391*
##
  38
                                   (8.859)
               INT_treatment_se
                                             (8.859)
                                                       (8.859)
##
   39
                   RES05_gender
                                     7.566
                                               7.566
                                                         7.566
##
  40
                RES05_gender_se
                                   (8.259)
                                             (8.259)
                                                       (8.259)
## 41
            X anytr genderres05
                                   -11.201
                                             -11.201
                                                       -11.201
## 42
        X_anytr_genderres05_se
                                  (13.792)
                                            (13.792)
                                                      (13.792)
## 43
                  INT_treatment
                                     0.087
                                               0.087
                                                         0.087
##
  44
                                   (0.078)
               INT_treatment_se
                                             (0.078)
                                                       (0.078)
##
   45
                   RES05_gender
                                    -0.086
                                              -0.086
                                                        -0.086
##
  46
                RES05_gender_se
                                   (0.073)
                                             (0.073)
                                                       (0.073)
   47
##
           X_anytr_genderres05
                                     0.148
                                               0.148
                                                         0.148
  48
##
        X_anytr_genderres05_se
                                   (0.122)
                                             (0.122)
                                                       (0.122)
## 49
                  INT_treatment
                                     6.688
                                               6.688
                                                         6.688
## 50
               INT_treatment_se
                                   (8.328)
                                             (8.328)
                                                       (8.328)
## 51
                   RES05_gender
                                    -7.176
                                              -7.176
                                                        -7.176
## 52
                RES05_gender_se
                                   (7.764)
                                             (7.764)
                                                       (7.764)
                                                         9.024
## 53
           X_anytr_genderres05
                                     9.024
                                               9.024
## 54
        X_anytr_genderres05_se (12.965) (12.965)
                                                     (12.965)
##
                           Model_6
                 Model_5
                                     Model_7
                                               Model_8
                                                         Model_9
       Model_4
                                                 0.349
## 1
         0.349
                   0.349
                             0.349
                                       0.349
                                                           0.349
## 2
        (1.214)
                 (1.214)
                           (1.214)
                                     (1.214)
                                               (1.214)
                                                         (1.214)
## 3
         0.818
                   0.818
                             0.818
                                       0.818
                                                 0.818
                                                           0.818
```

```
## 4
        (1.132)
                  (1.132)
                            (1.132)
                                      (1.132)
                                                (1.132)
                                                           (1.132)
## 5
         -2.575
                   -2.575
                             -2.575
                                                 -2.575
                                                           -2.575
                                       -2.575
## 6
         (1.89)
                   (1.89)
                             (1.89)
                                       (1.89)
                                                  (1.89)
                                                            (1.89)
          0.069
                    0.069
                              0.069
                                        0.069
                                                  0.069
                                                             0.069
##
   7
##
   8
        (0.049)
                  (0.049)
                            (0.049)
                                      (0.049)
                                                (0.049)
                                                           (0.049)
  9
      0.122*** 0.122*** 0.122***
                                               0.122*** 0.122***
##
        (0.045)
                  (0.045)
                            (0.045)
                                      (0.045)
                                                (0.045)
                                                           (0.045)
## 10
                                                -0.136*
        -0.136*
                  -0.136*
                            -0.136*
## 11
                                      -0.136*
                                                          -0.136*
## 12
        (0.076)
                  (0.076)
                            (0.076)
                                      (0.076)
                                                (0.076)
                                                           (0.076)
## 13
       2.625**
                  2.625**
                            2.625**
                                      2.625**
                                                2.625**
                                                          2.625 **
##
   14
        (1.286)
                  (1.286)
                            (1.286)
                                      (1.286)
                                                (1.286)
                                                           (1.286)
                                      2.424**
                                                2.424**
   15
       2.424**
                  2.424**
                            2.424**
                                                          2.424**
##
##
   16
        (1.198)
                  (1.198)
                            (1.198)
                                      (1.198)
                                                (1.198)
                                                           (1.198)
##
        -3.715*
                  -3.715*
                            -3.715*
                                      -3.715*
                                                -3.715*
                                                          -3.715*
   17
## 18
        (2.001)
                  (2.001)
                            (2.001)
                                      (2.001)
                                                (2.001)
                                                           (2.001)
##
   19
          0.005
                    0.005
                              0.005
                                        0.005
                                                  0.005
                                                             0.005
##
   20
        (0.021)
                  (0.021)
                            (0.021)
                                      (0.021)
                                                (0.021)
                                                           (0.021)
         -0.014
##
   21
                   -0.014
                             -0.014
                                       -0.014
                                                 -0.014
                                                           -0.014
##
         (0.02)
                   (0.02)
                             (0.02)
                                       (0.02)
                                                  (0.02)
                                                            (0.02)
   22
##
   23
          0.012
                    0.012
                              0.012
                                        0.012
                                                  0.012
                                                             0.012
##
   24
        (0.033)
                  (0.033)
                            (0.033)
                                      (0.033)
                                                (0.033)
                                                           (0.033)
##
  25
          0.678
                    0.678
                              0.678
                                        0.678
                                                  0.678
                                                             0.678
## 26
        (3.008)
                  (3.008)
                            (3.008)
                                      (3.008)
                                                (3.008)
                                                           (3.008)
  27
         -2.227
                   -2.227
                             -2.227
                                       -2.227
                                                 -2.227
                                                           -2.227
##
        (2.804)
                            (2.804)
##
  28
                  (2.804)
                                      (2.804)
                                                (2.804)
                                                           (2.804)
##
   29
          2.976
                    2.976
                              2.976
                                        2.976
                                                   2.976
                                                             2.976
##
   30
        (4.682)
                  (4.682)
                            (4.682)
                                      (4.682)
                                                (4.682)
                                                           (4.682)
   31
       0.183**
                  0.183**
                            0.183**
                                      0.183**
                                                0.183**
##
                                                          0.183**
##
   32
        (0.083)
                  (0.083)
                            (0.083)
                                      (0.083)
                                                (0.083)
                                                           (0.083)
##
   33
          0.025
                    0.025
                              0.025
                                        0.025
                                                  0.025
                                                             0.025
##
   34
        (0.077)
                  (0.077)
                            (0.077)
                                      (0.077)
                                                (0.077)
                                                           (0.077)
##
   35
         -0.059
                   -0.059
                             -0.059
                                       -0.059
                                                 -0.059
                                                           -0.059
   36
                  (0.129)
##
        (0.129)
                            (0.129)
                                      (0.129)
                                                (0.129)
                                                           (0.129)
       17.391*
                  17.391*
                            17.391*
                                      17.391*
                                                17.391*
                                                           17.391*
##
   37
                                                (8.859)
##
   38
        (8.859)
                  (8.859)
                            (8.859)
                                      (8.859)
                                                           (8.859)
##
   39
          7.566
                    7.566
                              7.566
                                        7.566
                                                  7.566
                                                             7.566
##
  40
        (8.259)
                  (8.259)
                            (8.259)
                                      (8.259)
                                                (8.259)
                                                           (8.259)
##
  41
       -11.201
                  -11.201
                            -11.201
                                      -11.201
                                                -11.201
                                                          -11.201
   42
      (13.792)
                 (13.792)
                           (13.792)
                                     (13.792)
                                               (13.792)
                                                         (13.792)
##
##
   43
          0.087
                    0.087
                              0.087
                                        0.087
                                                  0.087
                                                             0.087
        (0.078)
                  (0.078)
                            (0.078)
                                      (0.078)
                                                (0.078)
                                                           (0.078)
##
   44
##
   45
         -0.086
                   -0.086
                             -0.086
                                       -0.086
                                                 -0.086
                                                           -0.086
        (0.073)
                  (0.073)
                            (0.073)
                                      (0.073)
                                                (0.073)
                                                           (0.073)
##
   46
##
   47
          0.148
                    0.148
                              0.148
                                        0.148
                                                  0.148
                                                             0.148
  48
        (0.122)
                  (0.122)
                            (0.122)
                                      (0.122)
                                                (0.122)
                                                           (0.122)
##
  49
          6.688
                    6.688
                              6.688
                                        6.688
                                                   6.688
                                                             6.688
##
                  (8.328)
##
  50
        (8.328)
                            (8.328)
                                      (8.328)
                                                (8.328)
                                                           (8.328)
##
  51
         -7.176
                   -7.176
                             -7.176
                                       -7.176
                                                 -7.176
                                                           -7.176
##
   52
        (7.764)
                  (7.764)
                            (7.764)
                                      (7.764)
                                                (7.764)
                                                           (7.764)
          9.024
                    9.024
                              9.024
                                        9.024
                                                  9.024
##
   53
                                                             9.024
      (12.965) (12.965) (12.965) (12.965)
                                                         (12.965)
```

Table 5 - Voters perception