## Replication - Main Tables

2025-06-15

## Replication of the main tables

## Table 1 - Incumbent 2010

Packages to install if not done already.

```
install.packages(c("tidyverse","stargazer","knitr","broom","haven","fixest","modelsummary","gt","websho
## Installing packages into '/usr/local/lib/R/site-library'
## (as 'lib' is unspecified)
Required libraries.
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
               1.1.4
                        v readr
                                     2.1.5
## v forcats 1.0.0
                         v stringr
                                     1.5.1
                                     3.2.1
## v ggplot2 3.5.2
                         v tibble
## v lubridate 1.9.4
                         v tidyr
                                     1.3.1
## v purrr
              1.0.4
                            ----- tidyverse_conflicts() --
## -- 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)
Macros, controls, and sample selection.
# Defining the 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")

Model estimation.

```
# Function for the regression formulas
create_formula <- function(dep_var, model_type) {</pre>
  base_controls <- paste(gpcontrols, collapse = " + ")</pre>
  if (model_type == "any_treatment") {
    formula_str <- paste(dep_var, "~ INT_treatment + RES05_gender + X_anytr_genderres05 +",
                         base_controls, "+ factor(district)")
  } else if (model_type == "gender_general") {
    formula_str <- paste(dep_var, "~ INT_treatment_gender + INT_treatment_general + RES05_gender +",</pre>
                          "X_generaltr_genderres05 + X_gendertr_genderres05 +",
                         base_controls, "+ factor(district)")
  }
 return(as.formula(formula_str))
}
# Function for the statistical tests
calculate tests <- function(model, model type) {</pre>
  if (model_type == "any_treatment") {
    # Test: RES05_gender + X_anytr_genderres05 = 0
    test1 <- car::linearHypothesis(model, "RES05_gender + X_anytr_genderres05 = 0")
    pval1 <- test1$`Pr(>F)`[2]
    # Test: INT treatment = RESO5 gender
    test2 <- car::linearHypothesis(model, "INT_treatment - RES05_gender = 0")</pre>
    pval2 <- test2$`Pr(>F)`[2]
    return(list(pval1 = round(pval1, 2), pval2 = round(pval2, 2)))
  } else if (model_type == "gender_general") {
    # Test: INT_treatment_gender = INT_treatment_general
    test1 <- car::linearHypothesis(model, "INT_treatment_gender - INT_treatment_general = 0")</pre>
    pval1 <- test1$`Pr(>F)`[2]
```

```
\# Test: INT\_treatment\_gender + X\_gendertr\_genderres05 = <math>INT\_treatment\_general + X\_generaltr\_genderres05
    test2 <- car::linearHypothesis(model,</pre>
                                      "INT_treatment_gender + X_gendertr_genderres05 - INT_treatment_gener
    pval2 <- test2$`Pr(>F)`[2]
    return(list(pval1 = round(pval1, 2), pval2 = round(pval2, 2)))
  }
}
# Estimating the models
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
  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 estimate
  formula <- create_formula(dep_var, "any_treatment")</pre>
  model <- lm(formula, data = data_filtered)</pre>
  models_list[[i]] <- model
  # statistical tests
  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]</pre>
  j <- i + length(incum_dep_vars1)</pre>
  # control mean
  control_means[[j]] <- control_means[[i]]</pre>
  # model estimate
  formula <- create_formula(dep_var, "gender_general")</pre>
  model <- lm(formula, data = data_filtered)</pre>
  models_list[[j]] <- model</pre>
  # statistical tests
  test_results[[j]] <- calculate_tests(model, "gender_general")</pre>
}
```

## Table.

## Observations

## Adjusted R2

## R2

```
# variables to display
outregvar2 <- c("INT_treatment", "INT_treatment_gender", "INT_treatment_general")</pre>
# colnames
col names <- c(</pre>
 paste("Any Treat", 1:12),
 paste("Gender/General", 1:12)
# additional lines for means and test results!
additional_lines <- list(</pre>
  c("District FE", rep("Yes", length(models_list))),
  c("GP Controls", rep("Yes", length(models_list))),
 c("Mean in Control not WR in 2005", unlist(control_means)),
  c("Test Treat Effect in WR=0", sapply(test_results, function(x) x$pval1))
# generate table
stargazer(models_list,
          type = "text",
          column.labels = col_names,
          keep = outregvar2,
          add.lines = additional_lines,
          digits = 2,
          title = "Table 1: Effects on Incumbent and Family Candidate Entry (2005)",
          out = "Table1_Incumbent_2010.txt")
```

## ## Table 1: Effects on Incumbent and Family Candidate Entry (2005) ## ## INCO5\_running INCO5\_voteshare INCO5\_won
Any Treat 1 Any Treat 2 Any Treat 3 ## IN Any Treat 2 ## (1) (2) -0.26\*\*\* -6.27\*\*\* -0.01 ## INT\_treatment ## (0.09)(2.35)(0.05)## INT\_treatment\_gender ## ## ## INT\_treatment\_general ## ## ## District FE Yes Yes Yes ## GP Controls Yes Yes Yes ## Mean in Control not WR in 2005 0.46 10.1 0.06 ## Test Treat Effect in WR=0 0.86 0.71 0.83

152

0.11

-0.03

149

0.39

0.29

152

0.32

0.21

Table 2 - Performance 2010

Table 3 - Challengers 2010

Table 4- Candidates 2015

Table 5 - Voters perception