

Replication files for ‘When Can We Ignore Measurement Error in the Running Variable?’

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File descriptions

- `florida.csv`: dataset extract from “Making Young Voters”. The dataset contains 186,575 observations on 3 variables: `voted` (indicator for voting), `prereg` (indicator for pre-registering to vote), and `proximity` (proximity to eligibility to pre-register in days).
- `prepare_data.do`: process original data from “Making Young Voters” to make dataset extract `florida.csv`
- `functions.R`: supporting functions used by `florida.R`
- `florida.R`: main script

Replication instructions

1. Download the file `Pre-Reg FL Data 8.6.13.dta` from the replication files for “Making Young Voters”, <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/27672> and save it in the current directory
2. Run the Stata script `prepare_data.do`. This produces the intermediate file `florida.dta` that is the basis for all analysis. For convenience, we include this intermediate file in the directory.
3. Make a directory `output/` and run the R script `florida.R`. All tables and figures are stored in the `output/` directory (as LaTeX tables and TikZ/LaTeX figures).

Package requirements

`ggplot`, `RDHonest`, `ggthemr`, `tikzDevice`, `rdrobust`, `tidyr`, `limSolve`

To install `RDHonest` and `ggthemr`, run

```
if (!requireNamespace("remotes")) {
  install.packages("remotes")
}
remotes::install_github("kolesarm/RDHonest")
remotes::install_github("Mikata-Project/ggthemr")
```

The remaining packages are available on CRAN.

System information

R version 4.2.2 (2022-10-31)

Platform: x86_64-pc-linux-gnu (64-bit)

Running under: Debian GNU/Linux 11 (bullseye)

Matrix products: default

BLAS: /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3
LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblas-p-r0.3.13.so

locale:

[1] LC_CTYPE=en_US.UTF-8 LC_NUMERIC=C
[3] LC_TIME=en_GB.UTF-8 LC_COLLATE=en_US.UTF-8
[5] LC_MONETARY=en_US.UTF-8 LC_MESSAGES=en_US.UTF-8
[7] LC_PAPER=en_US.UTF-8 LC_NAME=C
[9] LC_ADDRESS=C LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C

attached base packages:

[1] stats graphics grDevices utils datasets methods base

other attached packages:

[1] ggplot2_3.4.0

loaded via a namespace (and not attached):

[1] Formula_1.2-4 ggthemr_1.1.0 magrittr_2.0.3
[4] MASS_7.3-58.2 tidyselect_1.2.0 munsell_0.5.0
[7] colorspace_2.0-3 R6_2.5.1 quadprog_1.5-8
[10] rlang_1.0.6 filehash_2.4-3 fansi_1.0.3
[13] dplyr_1.0.10 tools_4.2.2 grid_4.2.2
[16] lpSolve_5.6.17 tikzDevice_0.12.3.1 gtable_0.3.1
[19] utf8_1.2.2 cli_3.5.0 withr_2.5.0
[22] ellipsis_0.3.2 tibble_3.1.8 lifecycle_1.0.3
[25] crayon_1.5.2 farver_2.1.1 purrr_1.0.0
[28] tidyr_1.2.1 vctrs_0.5.1 RDHonest_0.4.1
[31] glue_1.6.2 labeling_0.4.2 compiler_4.2.2
[34] pillar_1.8.1 generics_0.1.3 scales_1.2.1
[37] rdrobust_2.1.1 limSolve_1.5.6 pkgconfig_2.0.3