Replication for ‘Ticket Splitting in a Nationalized Era’

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This repository is a replication archive for the manuscript, “Ticket Splitting in a Nationalized Era”.

Both a Dataverse version and a Github version are available.

How to Replicate

I strongly recommend downloading this entire repository and opening it as **a RStudio Project**. This will activate the package manager **renv** easily. Specifically:

1. In RStudio, create a new Rstudio project.
    1. If you downloaded the packet from Dataverse, you can open the `ticketsplit-JOP.Rproj` file.
    2. If you are starting from Github, start from your local RStudio and create a new project with the option of `Create from Version Control` > `Git`, and this this URL https://github.com/kuriwaki/ticketsplit-JOP.
2. A new Project should open. Run `renv::restore()` to download the necessary packages with their versions in one step. When prompted if you want to proceed with installing packages, enter “Y” (for yes) on the R console.
3. Then, inside the Rstudio and renv environment, replicators can run the master script `00_replicate-ALL.R` or run each R script.

See the “package and dependencies” section for more on replication environment.

Project Structure

This repository has the following scripts. The name of the file indicates the figure / table that it reproduces. For example, `02_fig-02-B5_topline.R` indicates that it creates Figure 2 and Figure B5.

```
## 00_replicate-ALL.R                01_fig-01_historical-ticketsplit.R
## 02_fig-02-B5_topline.R            03_fig-03_vis-clusterCVR.R
## 04_fig-04_valence-reg.R           05_fig-05_deluca.R
## 06_fig-06_DIME-positioning.R      07_fig-A2_tab-A2_news-mention.R
## 08_tab-A3_SC-historical.R         09_tab-A4_samplesizes.R
## 10_fig-B1_vticket-SC.R            10_fig-B2_vticket-MD.R
## 10_fig-B3_vticket-AZ.R            10_fig-B4_vticket-FL.R
## 11_tab-B1_by-person-stats.R       12_tab-B2_crosstab_inc.R
## 13_fig-B6_viz-logit-fit.R         14_tab-B3_multivariate.R
```

```
## 15_fig-B7_uncontested.R            16_tab-B4_overtime-trend.R
## 17_fig-C1_elbow-plots.R
```

All scripts default to the project directory (e.g., “ticketsplit-JOP”, or where the `.Rproj` file is located) as its working directory.

Datasets

The data in this archive include standard `csv` files, Stata `dta` files (which should be read in with `.dta`) and parquet files (`.parquet`). The parquet files are compact storage formats for large datasets and allows the models to be run quickly. It can be loaded with the `arrow` package using the `open_dataset()` function. For a reference, see https://r4ds.hadley.nz/arrow.

Packages and Dependencies (renv)

This repository uses R. It uses the renv package to manage package versions, so that there are no internal inconsistencies on your computer The `renv.lock` file encodes all the necessary dependencies. Opening the project in Rstudio Projects will automatically register the lockfile (from the `.Rprofile`), and Rstudio Projects will ask if you want to install missing packages. You can install the missing packages using `renv::restore()`. See https://rstudio.github.io/renv/articles/renv.html for more help on how to start this.

For reference, here are the package dependencies across all scripts, from most used to least (renv will instlal these for you).

```
## Finding R package dependencies ... Done!
## c("tidyverse", "scales", "fs", "ticketsplitJOPpkg", "arrow",
## "patchwork", "glue", "haven", "fixest", "ggtext", "broom", "ggrepel",
## "kableExtra", "lemon", "marginaleffects", "modelsummary", "renv",
## "rmarkdown", "cli", "dplyr", "gt", "knitr", "stringi")
```

All packages are on CRAN except `ticketsplitJOPpkg`, which is a bundle of extra functions specific to this repository. It is available at https://github.com/kuriwaki/ticketsplitJOPpkg. `renv` will install this for you, but it can also be manually installed with

```
remotes::install_github("kuriwaki/ticketsplitJOPpkg")
```