

ReadMe: data and replication code for “Persistent Political Engagement: Social Interactions and the Dynamics of Protest Movements”

openicpsr-122421

Data Availability Statements

The article is based on one main dataset. This dataset is provided in the data repository under `data/raw/wave201806_deidentified_minimal.dta`. Table D.10 is based on a separate dataset, which is provided in the repository under `data/raw/deidentified_data_w12345_minimal.dta`.

Other materials

The folder `code` contains all programs used for the analyses in this article. The folder `templates` contains `.tex` files that are used as templates for certain tables.

Computational requirements

Software Requirements

- R 4.0.2
 - `tidyverse` (1.3.0)
 - `lfe` (2.8.5.1)
 - `stargazer-booktabs` (5.2; available from Github: <https://github.com/markwestcott34/stargazer-booktabs>)
 - `starpolishr` (0.0.0.9004; available from Github: <https://github.com/ChandlerLutz/starpolishr>)
 - `AER` (1.2.9)
 - `ivpack` (1.2)
 - `stringr` (1.4.0)
 - `rlang` (0.4.7)
 - `ggsignif` (0.6.0.9000; available from Github: <https://github.com/const-ae/ggsignif>)
 - `WeightIt` (0.10.1)
 - `radiant.data` (1.3.10)
 - `ri2` (0.1.2)
 - `haven` (2.3.1)
 - `xtable` (1.8.4)

(The packages are available from CRAN unless specified otherwise.)

- Stata (code was last run with version 14)
 - `mhtexp` (available from SSC)

Portions of the code use bash scripting, which may require Mac or Linux.

Description of programs

The program `run-all.sh` in the main folder runs all programs that generate the tables and figures in the article. These programs are located in the subfolder `code` and described in more detail below. Instead of running the program `run-all.sh`, one can run the programs manually in the order specified in `run-all.sh`.

The programs in the subfolder `code` generate all tables and figures in the article.

- Program `code/load.R` loads the required packages, loads and prepares the data, and defines general functions and themes. It is run in the beginning of the other R programs.
- Program `code/analysis_mainexhibits.dta` generates all tables and figures in the main part of the article.
- Program `code/analysis_appendixexhibits.R` generates all tables and figures in the appendix of the article, except for Tables D.9 and D.10.
- Program `code/multiple-hypothesis-testing.do` perform some analyses used for Table D.9. It has to be run after `code/analysis_appendixexhibits.R`, which generates the input dataset.
- Program `code/individual-outcomes-table.R` generates Table D.9. It has to be run after `code/multiple-hypothesis-testing.do`.
- Program `code/nudge_persistence_rate.do` generates Table D.10.

Memory and Runtime Requirements

The code was last run on a **4-core Intel-based laptop with Windows version 10.0.19041**.

Instructions

- Make sure you have R and Stata and the required packages (specified under Software Requirements) installed.
- Run the program `run-all.sh` to run all the programs, which generate all the tables and figure in both the main part and the appendix, in the correct order.
- Alternatively, if you cannot run the `run-all.sh` file, perform the following steps (in the specified order):
 1. run with R: `code/analysis-mainexhibits.R`
 2. run with R: `code/analysis-appendixexhibits.R`
 3. run with Stata: `code/multiple-hypothesis-testing.do`
 4. run with R: `code/individual-outcomes-table.R`
 5. run with Stata: `code/nudge_persistence_rate.do`

List of figures/tables and programs

List of figures/tables and programs in the main part

Exhibit	Panel	Program/Source	Output
Figure 1	A, 2017	code/analysis_mainexhibits.R	minimal/protest-participation-2017.pdf
Figure 1	A, 2018	code/analysis_mainexhibits.R	minimal/protest-participation-pooled-2017.pdf
Figure 1	B, 2017	code/analysis_mainexhibits.R	minimal/protest-participation-2018.pdf
Figure 1	B, 2018	code/analysis_mainexhibits.R	minimal/protest-participation-pooled-2018.pdf
Figure 2	A	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2017.pdf
Figure 2	A, table	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2017.tex
Figure 2	B	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018.pdf
Figure 2	B, table	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018.tex
Figure 3	A, plan	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018-plan.pdf
Figure 3	B, no plan	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018-noplan.pdf
Figure 3	A	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018-plan.tex
Figure 3	B	code/analysis_mainexhibits.R	minimal/protest-participation-heterogeneity-2018-noplan.tex
Table 1		code/analysis_mainexhibits.R	minimal/participation-target.tex
Table 2		code/analysis_mainexhibits.R	minimal/outcomes-target.tex

List of figures/tables and programs in the appendix

Exhibit	Program/Source	Output
Figure A.1	https://www.hkupop.hku.hk/english/features/july1/index.html	
Figure A.2	Cantoni et al. (2019)	
Figure A.3	Cantoni et al. (2019)	
Figure D.1		
Figure D.2	code/analysis_appendixexhibits.R	minimal/takeup-proportions.pdf
Figure D.3	code/analysis_appendixexhibits.R	minimal/social-utility-target.pdf
Table D.1	code/analysis_appendixexhibits.R	minimal/attrition.tex
Table D.2	code/analysis_appendixexhibits.R	minimal/balance-participants-2017-vs-any-past-tr.tex
Table D.3		
Table D.4		
Table D.5	code/analysis_appendixexhibits.R	minimal/balance-all3.tex
Table D.6	code/analysis_appendixexhibits.R	minimal/cell-balance.tex
Table D.7	code/analysis_appendixexhibits.R	minimal/participation-target-controls_for_unbalanced.tex
Table D.8	code/analysis_appendixexhibits.R	minimal/outcomes-target-controls_for_unbalanced.tex
Table D.9	code/multiple-hypothesis-testing.do code/individual-outcomes-table.R	minimal/individual-outcome-table.tex
Table D.10	code/nudge_persistence_rate.do	persistence_natural_1.tex
Table D.11	code/analysis_appendixexhibits.R	reweight/participation-target.tex
Table D.12	code/analysis_appendixexhibits.R	reweight/outcomes-target.tex
Table E.1		
Table E.2		
Table E.3		

References

Cantoni, Davide, David Y. Yang, Noam Yuchtman, and Jane Zhang,
“Protests as Strategic Games: Experimental Evidence from Hong Kong’s
Democracy Movement,” *Quarterly Journal of Economics*, 2019, *134* (2), 1021–
1077.