

README

Overview

The codes in this replication package were written using Stata 16.1. Three do files run all of the codes to generate the 4 figures and 3 tables in the main text, as well as 6 figures and 11 tables in the online appendix. The replicator should expect the code for each table or figure to run for at most a few minutes.

Data Availability and Provenance Statements

The data used in this paper were generated (by the authors) in the course of conducting online survey experiments.

- **experimental design.pdf** is a summary of the experiments reported in the paper.
- **experimental instructions.pdf** is a copy of instructions and questionnaires given to the participants including all screenshots.
- **ethics approval letter.pdf** is the ethics approval (IRB) obtained from the Chinese University of Hongkong at the date of 29 December 2021.
- **selection and eligibility of participants.pdf** is a summary of subject eligibility criteria.

Statement about Rights

- I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.
- I certify that the author(s) of the manuscript have documented permission to redistribute/publish the data contained within this replication package.

Summary of Availability

- All data are publicly available.

Dataset list

- **data/processed** contains **spectator_main.dta**, **spectator_vary.dta** and **worker_main.dta** that are the datasets for all data analyses.
- **data/raw** contains **spectator_main_raw.dta**, **spectator_vary_raw.dta** and **worker_main_raw.dta** that are the raw datasets.
- **data/raw** contains **spectator_main_raw.csv**, **spectator_vary_raw.csv** and **worker_main_raw.csv** that are the non-proprietary format of the raw datasets.

Computational requirements

Software Requirements

- Stata (code was last run with version 16.1)
 - `estout` (as of 2024-10-08)

- moremata (as of 2024-10-08)
- mhtreg (as of 2024-10-08)
- grc1leg2 (as of 2024-10-08)
- the program “0PathSetup.do” will install all dependencies locally, and should be run once.

Controlled Randomness

- Random seed is set at line 5 of the program “0PathSetup.do”.

Memory and Runtime Requirements

Summary

Approximate time needed to reproduce the analyses on a standard (2023) desktop machine:

- < 10 minutes

Approximate storage space needed:

- < 25 MBytes

Details

The code was last run on a **6-core AMD-based desktop PC with Windows 11**.

Description of programs/code

- “1DataClean_Spectator.do” and “1DataClean_Worker.do” will produce the data files located in data/processed. There is no need to run these codes for the purpose of reproducing analyses.
- “spectator_main.do” contains codes for reproducing Table 2, Figure 1, Figure A1, A2 and Table A1-A5, B1-B2.
- “spectator_vary.do” contains codes for reproducing Tables 3 and 4, Figures 2 and 3, Figure A3, Table A6-A8.
- “worker_main.do” contains codes for reproducing Figure 4, Table C1, Figures C1-C3.

Instructions to Replicators

- Edit the line at the top of the program “0PathSetup.do” to adjust the default path.
- Run the program “0PathSetup.do” once to produce all figures and tables. All figures and most of the tables are saved as separate files as indicated in the table of list below. However, some table outputs are not saved as separate files; all of them use the “mhtreg” command to conduct multiple hypothesis testing

(which for some reason cannot save outputs as desired). Therefore, for the convenience of checking the results from these tables (A2, A3, A5, B2), please find these results in the log file. Alternatively, please run all the code under each table again one by one (through manually highlighting the relevant lines of code by checking the table below, and check the output immediately after it is generated).

- Please note the labels in Figures A1, A3 and C2 are manually added. In Table 3, variance of residual, log likelihood and number of subjects are not included in the output tex file but can be found in each regression output. The format of Table 4 is constructed manually from the output. For tables (A1 and A4) that contain p-values or F-test statistics at the bottom of the table, the output tex files do not include these statistics but all of them can be found on the Stata console when executing the relevant table.

List of tables and programs

The provided code reproduces:

- All tables and figures related to data analysis in the paper

Figure/Table #	Output	Program	Line Number	Note
Figure 1	output/figures/figure1.pdf	spectator_main.do	41-64	
Figure 2	output/figures/figure2.pdf	spectator_vary.do	161-388	
Figure 3	output/figures/figure3.pdf	spectator_vary.do	393-626	
Figure 4	output/figures/figure4.pdf	worker_main.do	8-33	
Table 2	output/tables/table2.tex	spectator_main.do	4-33	
Table 3	output/tables/table3.tex	spectator_vary.do	6-91	Variance of residual, log likelihood and number of subjects are not included in the output and must be found in each regression output
Table 4	output/tables/table4.tex	spectator_vary.do	95-159	Format is constructed manually from the output
Figure A1	output/figures/figureA1.pdf	spectator_main.do	68-85	Labels manually added

Figure A2	output/figures/figureA2.pdf	spectator_main.do	91-194	
Figure A3	output/figures/figureA3.pdf	spectator_vary.do	631-724	Labels manually added
Table A1	output/tables/tableA1.tex	spectator_main.do	201-226	p-values at the bottom can be found on console
Table A2	on the console screen	spectator_main.do	230-257	
Table A3	on the console screen	spectator_main.do	260-281	
Table A4	output/tables/tableA4.tex	spectator_main.do	283-335	F-test statistics at the bottom can be found on console
Table A5	on the console screen	spectator_main.do	337-403	
Table A6	output/tables/tableA6.tex	spectator_vary.do	729-756	
Table A7	output/tables/tableA7.tex	spectator_vary.do	759-800	
Table A8	output/tables/tableA8.tex	spectator_vary.do	802-807	
Table B1	output/tables/tableB1.tex	spectator_main.do	408-435	
Table B2	on the console screen	spectator_main.do	438-463	
Table C1	output/tables/tableC1.tex	worker_main.do	37-70	
Figure C1	output/figures/figureC1.pdf	worker_main.do	72-98	
Figure C2	output/figures/figureC2.pdf	worker_main.do	103-119	Labels manually added
Figure C3	output/figures/figureC3.pdf	worker_main.do	124-137	Labels manually added
