Measuring and Bounding Experimenter Demand: READ ME

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This folder contains data and Stata code to replicate all tables and figures in "Measuring and Bounding Experimenter Demand," as well as its web appendix tables and figures. The code is designed to run in Stata 13 or later versions.

To produce all tables and figures in one procedure:

1. Open `masterdofile.do` located in the folder `do-files`.
2. Set the `$filepath` variable to equal the path to the `Replication_files` folder on your computer.
3. Run this do file to generate all tables and figures. They will be placed in the folder `output`.

The folder `ado-files` contains additional programs necessary to run our code.

If you are interested in reproducing specific results, please refer to Tables 1, 2 and 3 below to identify the appropriate code file and dataset. Individual do files are found in the subfolders of `do-files`.

1 Contents of this folder

There are five main parts in this folder

- `data`: contains cleaned data and (anonymized) raw data

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- `do-files`: contains code for cleaning the data in the folder `generate_datasets`, code for reproducing figures in the folder `generate_figures`, and code for reproducing tables in the folder `generate_tables`.
- `ado-files`: additional programs necessary to run our code.
- `Qualtrics_files`: contains the Qualtrics files used to run the experiments
- `output`: contains two folders, `figures` and `tables`. Code in `do-files` puts tables and figures here.

2 Ado-files

This folder contains additional programs necessary to run our code. We include copies of these in case future updates break the code. The main do-file `masterdofile.do` sets the path to include these files when running the code.

- `_eststo.ado`, `estadd.ado`, `estout_mystyle.def`, `estout.ado`, `estpost.ado`, `eststo.ado`, `esttab.ado`. Written by Jann (2007).
- `distplot.ado`. Written by Cox (1998).
- `grc1leg.ado`. Written by Wiggins (2010).
- `sigstar2.ado` (written by us).
- `demandbounds.ado` (written by us).
- `minq.ado` (written by us).
- `multproc.ado`. Written by Newson and The ALSPAC Study Team (2003).
- `scheme-lean2.scheme`. Written by Juul (2003).

3 Data

Raw Datasets

We use 7 raw datasets located in `data/raw_data_files`. These files are unedited except to remove potentially identifying information (MTurk IDs).

1. `experiment1_strong_noid.csv` raw data from experiment 1.
2. `experiment2_weak_noid.csv` raw data from experiment 2.
3. `experiment3_effort_noid.csv` raw data from experiment 3.
4. `experiment4_rep_sample_noid.csv` raw data from experiment 4.
5. `experiment5_manytask_noid.csv` raw data from experiment 5.
6. `experiment6_effort_noid.csv` raw data from experiment 6.
7. `experiment7_within_noid.csv` raw data from experiment 7.

Final Datasets

The replication files consist of 9 datasets, located in `data/final_data_files`. They are as follows:

1. `experiment1.dta` subject-level data from experiment 1.
2. `experiment2.dta` subject-level data from experiment 2.
3. `experiment3.dta` subject-level data from experiment 3.
4. `experiment4.dta` subject-level data from experiment 4.
5. `experiment5.dta` subject-level data from experiment 5.
6. `experiment6.dta` subject-level data from experiment 6.
7. `experiment7.dta` subject-level data from experiment 7.
8. `pooled_all.dta` subject-level data from all experiments.
9. `demand_pooled_attrition.dta` subject-level data from all experiments including those who did not complete their task.

4 Do-files: generate datasets

Folder `do-files/generate_datasets` contains 8 Stata do files which clean the raw data and produce final datasets.

- `01_generate_data.do` runs all cleaning and creates the final datasets.
- `experiment1_strong.do` cleans the raw data from experiment 1
- `experiment2_weak.do` cleans the raw data from experiment 2
- `experiment3_strong_effort.do` cleans the raw data from experiment 3
- `experiment4_Rep_sample.do` cleans the raw data from experiment 4
- `experiment5_manytasks.do` cleans the raw data from experiment 5
- `experiment6_weak_effort.do` cleans the raw data from experiment 6
- `experiment7_within.do` cleans the raw data from experiment 7

5 Do-files: generate tables and figures

Folders `do-files/generate_tables` and `do-files/generate_figures` contain do files to generate all tables and figures. Tables 1, 2 and 3 below reference the relevant do file for each table and figure in the paper and web appendix.

Note that some symbols in the figure labels may render differently on different systems.

6 Qualtrics files

This folder contains the Qualtrics files used to run each experiment: `Experiment1.qsf, Experiment2.qsf, Experiment3.qsf, Experiment4.qsf, Experiment5.qsf, Experiment6.qsf, Experiment7.qsf`.

References

Cox, Nicholas J. 1998. "DISTPLOT: Stata module to generate distribution function plot." *Statistical Software Components, Boston College Department of Economics, revised 16 Sep 2017.*

Jann, Ben. 2007. "Making regression tables simplified." *The Stata Journal*, 7(2): 227–244.

Juul, Svend. 2003. "Lean mainstream schemes for Stata 8 graphics." *The Stata Journal*, 3(3): 295–301.

Newson, Roger, and The ALSPAC Study Team. 2003. "Multiple-test procedures and smile plots." *The Stata Journal*, 3(2): 109–132.

Wiggins, Vince. 2010. "grc1leg." *https://www.stata.com/users/vwiggins/grc1leg/grc1leg.ado*.

Table 1	`Table1weak.do`
Table 2	`Table2strong.do`
Table 3	`Table3treatmentbounds.do`
Table 4	`Table4effort_nlls.do`
Table 5	`Table5HETERO.do`
Table 6	Manual: Overview of experiments
Table 7	Manual: Details of experimental tasks
Table A1	`TableA1_Controllingfordemand.do`
Table A2	`TableA2_within.do`
Table A3	`TableA3_CI_naturalaction.do`
Table A4	`TableA4_CIs_treatment.do`
Table A5	`TableA5_withindefierscompliers.do`
Table A6	`TableA6_modified_CIs.do`
Table A7	`TableA7_weak_belief_objective.do`
Table A8	`TableA8_strong_belief_objective.do`
Table A9	`TableA9_weak_belief_hypothesis.do`
Table A10	`TableA10_strong_belief_hypothesis.do`
Table A11	Manual: Summary of previous anonymity studies.
Table A12	`TableA12_standard_deviations.dodo`

Table 1: Main Tables and Appendix A

Table C1	C1_rawdataoverview.do
Table C2	C2_gamelevelregressionsexp1.do
Table C3	C3_exp1.do
Table C4	C4belief_PAP1.do
Table C5	C5_exp2rawdataoverview.do
Table C6	C6_gamelevelregressionsexp2.do
Table C7	C7_exp2.do
Table C8	C8_exp2_withcontrol.do
Table C9	C9_diffexp1_exp2.do
Table C10	C10_belief_PAP2.do
Table C11	C11_belief_incentives.do
Table C12	C12_exp2_attrition.do
Table C13	C13_exp3rawdataoverview.do
Table C14	C14_exp3.do
Table C15	C15_exp3_withcontrols.do
Table C16	C16_belief_PAP3.do
Table C17	C17_exp3_attrition.do
Table C18	C18_exp4rawdataoverview.do
Table C19	C19_gamelevelregressionsexp4.do
Table C20	C20_repsample.do
Table C21	C21_diffmTurk_rep.do
Table C22	C22belief_PAP4.do
Table C23	C23cr_exp4_attrition.do
Table C24	C24_omnibus_test_allgames.do
Table C25	C25_strong_vs_weak.do
Table C26	C26_or_within_withcontrols.do
Table D1	D1_balance_exp1.do
Table D2	D2_balance_exp2.do
Table D3	D3_balance_exp3.do
Table D4	D4_balance_exp4.do
Table D5	D5_balance_exp5.do
Table D6	D6_balance_exp6.do
Table D7	D7_balance_exp7.do
Table D8	D8_sum-unconditional_pooled.do
Table D9	D9_sum-unconditional_exp1.do
Table D10	D10_sum-unconditional_exp2.do
Table D11	D11_sum-unconditional_exp3.do
Table D12	D12_sum-unconditional_exp4.do
Table D13	D13_sum-unconditional_exp5.do
Table D14	D14_sum-unconditional_exp6.do
Table D15	D15_sum-unconditional_exp7.do
Table D16	D16_strong_attrition.do
Table D17	D17_weak_attrition.do

Table 2: Tables: Appendices C and D

Figure 1	`Figure1_sensitivity_weakstrong.do`
Figure 2	`Figure2_raw_strong_weak.do`
Figure 3	`Figure3_within.do`
Figure A1	Manual: Screenshot
Figure A2	`FigureA2_distributionweak.do`
Figure A3	`FigureA3distributionstrong.do`
Figure B1	`B1_Figurepowercostextraolation.do`
Figure B2	`B2_applyingthemethod.do`
Figure C1	`C1_PAP1raw overviewexp1.do`
Figure C2	`C2_PAP2raw overviewexp2.do`
Figure C3	`C3_PAP3raw overviewexp3.do`
Figure C4	`C4_PAP4raw overviewexp4.do`
Figure C5	`C5_PAP6within.do`

Table 3: Figures