

README: Replication for “When does decision-making reflect agency? Evidence from the rural Philippines” (Arugay et al 2024)

Overview:

The code in this replication package constructs all tables and figures from the working paper using Stata. The package consists of two Stata do-files. All figures can be constructed using the code from the primary Stata do-file. Two datasets are included in the package, one for each survey referenced. The replicator should expect the code to run for 30 minutes or less.

Data and Code Availability Statement:

This paper uses data from the baseline survey of an impact evaluation of the Philippines Comprehensive Agrarian Reform Program. The datasets are publicly available on the World Bank Microdata Library, and can be downloaded [here](#).

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.

Data Sources:

Two raw datasets are included: the main baseline survey, carried out with agrarian reform beneficiaries (ARBs), and the baseline spousal survey, carried out with ARBs and their spouses. Additional information on each dataset can be found in the table below.

Data name:	File name:	Location:	Provided:	Description:
CARP IE baseline survey master data	Main baseline master data.dta	\$folder/data	TRUE	Full anonymized baseline survey from impact evaluation.
CARP IE baseline spousal survey raw data	Spousal survey- raw data_anonymized.dta	\$folder/data	TRUE	Raw anonymized baseline spousal survey from impact evaluation.

Software Requirements:

This replication package requires Stata (code was last run with version 18.0). The Stata do-file will require the **outreg** and **confa** packages to be installed.

Description of code:

This package consists of three Stata do-file. All figures and data in the paper can be generated using only the *Main analysis.do* file. The files and their purposes are as follows:

- Code in *Main analysis.do* generates all figures and tables in the paper. It references *Data generation.do* and *qvalues_1_sharpened.do* and is the only Stata file that needs to be run for the replication.
- Code in *Data generation.do* generates the variables and datasets used for analysis from the two raw data files described above. It is called in *Main analysis.do* and does not need to be run separately.
- Code in *qvalues_1_sharpened.do* generates sharpened q-values as described in Benjamini, Krieger and Yekutieli (2006) in order to control for multiple hypothesis testing. It is used only for figures in Appendix C and cannot be run separately.

Instructions for replicators:

- Download the two datasets in the replication package and place in the same folder as the analysis files.
- Edit the file path in lines 15-17 the *Main analysis.do* file to reflect the folder that will be used for replication.
- Install required packages (**outreg** and **confa**) as necessary.
- Run only *Main analysis.do* to generate all tables and results.
- NOTE: Several tables were not generated in Stata, while others are modified from the original output for readability or due to the limitations of Stata commands. These modifications are described in *Main analysis.do* and in the next section.

List of tables and programs

NOTE: Tables and programs are listed in order of appearance in the paper text.

Table:	Program:	Line Number	Output file:	Notes:
Table 1	None			List of variables only; no code used.
Table 2	None			List of variables only; no code used
Table 3	<i>Main analysis.do</i>	83	Arugay et al forthcoming replication.smcl	Table created manually; all statistics generated in do-file.
Table 4a	<i>Main analysis.do</i>	144	Autonomy Regressions_Table 4a.doc	Format of table in paper draft modified slightly from raw output for readability.
Table 4b	<i>Main analysis.do</i>	248	Autonomy Regressions_Table 4a.doc	Format of table in paper draft modified slightly from raw output for readability.

Table 5	<i>Main analysis.do</i>	350	Autonomy Regressions_Table 5.doc	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Table 6	<i>Main analysis.do</i>	408	Autonomy Regressions_Table 6.doc	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Figure A1	None			Source: Donald et al 2020
Appendix Table A1	<i>Main analysis.do</i>	467	Arugay et al forthcoming replication.smcl	Table created manually; all statistics generated in do-file.
Appendix Table A2	None			List of variables only; no code used
Appendix Table B1	<i>Main analysis.do</i>	551	RAI.log	Table created manually; all statistics generated in do-file.
Appendix B goodness of fit statistics	<i>Main analysis.do</i>	569	RAI.log	Statistics generated with R code; no associated table.
Appendix Table C1a	<i>Main analysis.do</i>	585	Autonomy Regressions_Table C1a.do	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Table C1b	<i>Main analysis.do</i>	657	Autonomy Regressions_Table C1b.do	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Table C1c	<i>Main analysis.do</i>	722	Autonomy Regressions_Table C1c.do	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Table C1d	<i>Main analysis.do</i>	787	Autonomy Regressions_Table C1d.do	Table is reformatted in paper draft due to

				limitations of <i>outreg</i> command.
Appendix Table C1e	<i>Main analysis.do</i>	852	Autonomy Regressions_Table C1e.do	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Table C1f	<i>Main analysis.do</i>	917	Autonomy Regressions_Table C1f.do	Table is reformatted in paper draft due to limitations of <i>outreg</i> command.
Appendix Table C2a	<i>Main analysis.do</i>	981	Autonomy Regressions_Table C2a.do	
Appendix Table C2b	<i>Main analysis.do</i>	1068	Autonomy Regressions_Table C2b.do	
Appendix Table C2c	<i>Main analysis.do</i>	1154	Autonomy Regressions_Table C2c.do	
Appendix Table C2d	<i>Main analysis.do</i>	1239	Autonomy Regressions_Table C2d.do	
Appendix Table C2e	<i>Main analysis.do</i>	1326	Autonomy Regressions_Table C2e.do	
Appendix Table C2f	<i>Main analysis.do</i>	1411	Autonomy Regressions_Table C2f.do	

References

Benjamini, Yoav, Abba M. Krieger, and Daniel Yekutieli. "Adaptive linear step-up procedures that control the false discovery rate." *Biometrika* 93, no. 3 (2006): 491-507.

Donald, A., Koolwal, G., Annan, J., Falb, K. and Goldstein, M., 2020. Measuring women's agency. *Feminist Economics*, 26(3), pp.200-226.