



Measuring Agency Through Psychological Constructs in Lower-Income Settings

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This review verifies the reproducibility of the exhibits included in the paper “*Measuring Agency Through Psychological Constructs in Lower-Income Settings*”.

Contents in this review:

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Main findings

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Updating the working directory in the main do-file "Setup.do" and running the code.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 9 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on March 20th.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: restricted data (available only from the authors).
 - Reviewers used restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The data is forthcoming on the World Bank Microdata Library.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**

- **Data:** All data is temporarily embargoed by the authors and is expected to be made public through the World Bank Microdata Library in the future.
- **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
- **Outputs:** All outputs are generated by code included in the reproducibility package.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Table 1** Does not apply. Output is not analytical.
- **Table 2** Reproduced.
- **Table 3** Does not apply. Output is not analytical.
- **Table 4** Reproduced.
- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well. The seed used to generate the random selection was [928745], the Stata version used was [19], and the exhibits selected were: Table B15, Table B18, Table B22, Table B23, Table C1, Table C4, Table C12, Table C20, Table C30, Table C32

- **Table B15** Reproduced.
- **Table B18** Reproduced.
- **Table B22** Reproduced.
- **Table B23** Reproduced.
- **Table C1** Reproduced.
- **Table C4** Reproduced.
- **Table C12** Reproduced.
- **Table C20** Reproduced.
- **Table C30** Reproduced.
- **Table C32** Reproduced.

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz (2.90 GHz) (2 processors)
- Memory available: 16 GB
- Software version: Stata 18.0 MP