



Where You Are Born Matters. Inequality of Opportunities and Intergenerational Mobility across Colombia's Territory

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This review verifies the reproducibility of the exhibits included in the paper "*Where You Are Born Matters. Inequality of Opportunities and Intergenerational Mobility across Colombia's Territory*".

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

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 lines 22 and 57 of the do-file "1im_io 1.0 Master_out.do", and running it.
 2. Opening the R project "IMG-IOP.Rproj"
 3. Restoring the environment by running `renv::restore()` and following the prompts.
 4. Opening the main.R and running the code.
- The code takes approximately 2 days to run.
- We conducted our reproducibility analysis based on the paper shared by the authors.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, accessible (public but not included in the reproducibility package), and limited-access (available to World Bank staff and forthcoming on World Bank Development Data Hub).
 - Open data is included in the public reproducibility package.
 - Reviewers used forthcoming/accessible/limited-access data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. Limited-access data is forthcoming on World bank Development Data Hub.

- Reviewers used the intermediate data files provided by the authors, derived from the Encuesta Nacional de Calidad de Vida (ECV/ENCV). The raw data is available in a secure environment and cannot be redistributed; the aggregated files derived from the raw data are included in the package.
- *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Some data is limited-access and has not been included in the reproducibility package. For more details, please refer to the README file.
- **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

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** 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 961021, the Stata version used was 18, and the exhibits selected were: Tables A2, A3, A4, A6, and Figures A1, A2, A3, A6, A7, A8

- **Table A2** Reproduced.

- **Table A3** Reproduced.
- **Table A4** Reproduced.
- **Table A6** Reproduced.
- **Figure A1** Results reproduced. Figure was not exported by code but was verified from the results window.
- **Figure A2** Reproduced.
- **Figure A3** Reproduced. Verified against Figure A2.png and Figure A3.png.
- **Figure A6** Reproduced.
- **Figure A7** Reproduced.
- **Figure A8** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y+ 2.80 GHz (2 processors)
- Memory available: 128 GB
- Software version: Stata 18.0 MP; R 4.3.2