



Not Faster, but Better: Generative AI and Teacher Skill in Peru

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This review verifies the reproducibility of the exhibits included in the paper “Not Faster, but Better: Generative AI and Teacher Skill in Peru”.

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Main findings

- **Every exhibit in the main section of the paper and the appendix were reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the working directory in line 38 of the do-file "oo_master.do", and running it.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 5 minutes 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 one type of data: embargoed (forthcoming as licensed files in the World Bank Microdata Library).
 - 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 forthcoming/accessible/limited-access/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 (expected to be made public 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

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.

Results in the Annex

- **Figure A1** Reproduced.
- **Figure A2** Reproduced.
- **Figure A3** Reproduced.
- **Figure A4** Reproduced.
- **Figure A5** Reproduced.
- **Figure A6** Reproduced.
- **Figure A7** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) GOLD 6226R CPU @ 2.90 GHz (2 processors)
- Memory available: 16.0 GB
- Software version: Stata 19.5 MP