Reproducible Research Repository

How Do Organizations Learn? The Diffusion of Scientific Evidence on Generative AI

First Submission: RR_USA_2025_499

Ceren Huryol
reproducibility@worldbank.org

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This review verifies the reproducibility of the exhibits included in the paper *"How Do Organizations Learn? The Diffusion of Scientific Evidence on Generative AI"*.

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 takes approximately 1 minute to run.
- We conducted our reproducibility analysis based on the paper shared by the authors on December 18th.
- **Verification Process and Data Handling**:
  - The reproducibility package relies on 2 types of data: restricted (available only from the authors) and forthcoming.
  - Reviewers verified the package via virtual verification and did not have access to the data.
  - *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 and restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary**:
  - **Data**: All data is not yet publicly available but is expected to be made available 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 reproducibility package does not use external dependencies.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Table 1 Panel A** Reproduced. Verified against *table1_seed_POOLED.tex*.
- **Table 1 Panel B** Reproduced. Verified against *table1_seed_wave1.tex*.
- **Table 1 Panel C** Reproduced. Verified against *table1_seed_wave2.tex*.
- **Table 2 Panel A** Reproduced. Verified against *table2_contacts_PanelA_.tex*.
- **Table 2 Panel B** Reproduced. Verified against *table2_contacts_PanelB_.tex*.
- **Table 3 Panel A** Reproduced. Verified against *table3A_firststage_POOLED.tex and table3B_percept_POOLED.tex*.
- **Table 3 Panel B** Reproduced. Verified against *table3A_firststage_wave1.tex and table3B_percept_WAVE1.tex*.
- **Table 3 Panel C** Reproduced. Verified against *table3A_firststage_wave2.tex and table3B_percept_WAVE2.tex*.

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 511125, the Stata version used was 19MP, and the exhibits selected were: 1, 7, 8, 12, 14, 16, 17, 19, 32, 40.

- **Figure A2a** Reproduced. Verified against *A2_predictions_CLEAN_share.gph*.
- **Figure A4** Reproduced. Verified against *A4_reasons_and_barriers_combined.png*.
- **Figure A5** Reproduced. Verified against *A5_reasons_to_share_het_coef.png*.
- **Table A1 Panel A** Reproduced. Verified against *tableA1_balance.tex*.
- **Table A1 Panel C** Reproduced. Verified against *tableA1_balance.tex*.
- **Table A2 Panel B** Reproduced. Verified against *tableA2_balance.tex*.
- **Table A2 Panel C** Reproduced. Verified against *tableA2_balance.tex*.
- **Table A3 Panel B** Reproduced. Verified against *tableA3_contacts_PanelB_longTerm.tex*.
- **Table A8 Panel C** Reproduced. Verified against *tableA8_adoption_wave2.tex*.
- **Figure B3 Panel A** Reproduced. Verified against *B3_histProductivityPrior_CLEAN*.

Reproduction Environment

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

- OS: MacBook-Pro (13 inch, M2, 2022)
- Processor: Apple M2
- Memory available: 8 GB
- Software version: Stata 18 MP