



Reproducible Research Repository

Click, Code, Earn: The Returns to Digital Skills

Second Submission: RR_WLD_2025_451

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This review verifies the reproducibility of the exhibits included in the paper “Click, Code, Earn: The Returns to Digital Skills”.

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
- 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 2 types of data: open, and restricted data (available only from the authors).
 - Open data is included in the public reproducibility package.
 - Reviewers used restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility 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 restricted 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.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.
- **Table 9** Reproduced.
- **Table 10** Reproduced.
- **Table 11** Reproduced.
- **Table 12** 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 435698, the Stata version used was 16, and the exhibits selected were: Tables A1, A2, A4, A5, Figure A1, Tables B1, B3, B5, B6, B8.

- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A4** Reproduced.
- **Table A5** Reproduced.

- **Figure A1** Reproduced.
- **Table B1** Reproduced.
- **Table B3** Reproduced.
- **Table B6** Reproduced.
- **Table B8** 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 18.5 MP