



## *Do bilateral labor agreements increase migration? Global evidence from 1960 to 2020*

*Second Submission: RR\_WLD\_2024\_243*

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This review verifies the reproducibility of the exhibits included in the paper “*Do bilateral labor agreements increase migration? Global evidence from 1960 to 2020*”.

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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Updating the global path.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 10 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by mail on December 9th.
- **Note:** The reproducibility verification begins with the intermediate data shared by the authors. The authors have provided a description of the steps taken in the README. The replicators reviewed a few cases of the data provided by the authors against the original sources, and these cases matched. However, this review was not conducted for the entire dataset.
- All exhibits are reproduced.
- **Reproducibility Summary:**
  - **Data:** All data sources are publicly available and included in the reproducibility package.
  - **Code:** All available code files are included in the reproducibility package. The intermediate data was constructed manually and are documented in the README but not in code.
  - **Outputs:** All outputs are generated by code included in the reproducibility package.

- **Reproducibility verification:** Reviewers had access to the same materials in the public reproducibility package. The reviewers verified that publicly available data matches the data in the reproducibility package for specific numbers.
- **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

### *List of exhibits and reproducibility status*

#### **Results in the Main Section of the Paper**

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

#### **Results in the Annex**

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining exhibits 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 838595, the Stata version used was 18 MP, and the exhibits selected were: Figures A.1, A.2, A.4, C.1, C.3, and Tables B.1, B.2, B.3, B.4, B.5

- **Figure A.1** Reproduced.
- **Figure A.2** Reproduced.
- **Figure A.4** Reproduced.
- **Figure C.1** Reproduced.
- **Figure C.3** Reproduced. Figure C.3c was checked against Figure\_C3D.png, and figure C.3d was checked against Figure\_C3C.png.
- **Table B.1** Reproduced.
- **Table B.2** Reproduced.
- **Table B.3** Reproduced.
- **Table B.4** Reproduced.
- **Table B.5** Reproduced.

### *Reproduction Environment*

- Paper exhibits were reproduced in a computer with the following specifications:
  - OS: Windows 10 Enterprise
  - Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz 2.90 GHz (2 processors)
  - Memory available: 32 GB
  - Software version: Stata version 18 MP