



Rising Heat In The Labor Market: The Impact Of Climate Change On Jobs In Europe

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This review verifies the reproducibility of the exhibits included in the paper “*Rising Heat In The Labor Market: The Impact Of Climate Change On Jobs In Europe*”.

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 in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Updating the file path in `wbes/replication_wbes.do` do-file and running the code.
 2. Updating the file path in `ardeco/replication_ardeco.do` do-file and running the code.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 30 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on March 3rd.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on two types of data: open, and limited-access .
 - Some open data are not included in the public reproducibility package because the versions used by the authors are no longer available and others due to file size constraints.
 - Verification was conducted using intermediate data shared directly by the authors. The data construction process is described in the README.
 - `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, refer to the README file.
- **Code:** All code files are included in the reproducibility package but operate from intermediate data, not raw data.
- **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

- **Table 1 Reproduced.** Verified against ardeco/charts/table1.doc. Minor formatting differences.
- **Table 2 Reproduced.** Verified against ardeco/charts/table2.doc. Minor formatting differences.
- **Table 3 Reproduced.** Verified against ardeco/charts/table3.doc. Minor formatting differences.
- **Figure 1 Reproduced.** Verified against the figure generated in Stata. Minor formatting differences.
- **Figure 2a Reproduced.** Verified against the figure generated in Stata.
- **Figure 2b Reproduced.** Verified against the figure generated in Stata.
- **Figure 3 Reproduced.** Verified against ardeco/charts/FIG3.doc. The axis are different, but figure is reproducible.
- **Figure 4a Reproduced.** Verified against ardeco/charts/FIG4a.doc.
- **Figure 4b Reproduced.** Verified against ardeco/charts/FIG4b.doc.
- **Figure 4c Reproduced.** Verified against ardeco/charts/FIG4c.doc.
- **Figure 5a Reproduced.** Verified against ardeco/charts/FIG5a.doc.
- **Figure 5b Reproduced.** Verified against ardeco/charts/FIG5b.doc.
- **Figure 5c Reproduced.** Verified against ardeco/charts/FIG5c.doc.
- **Figure 6 Reproduced.** Verified against ardeco/charts/FIG6.doc.
- **Figure 7 Reproduced.** Verified against ardeco/charts/FIG7.doc.
- **Figure 8 Reproduced.** Verified against ardeco/charts/FIG8.doc.
- **Figure 9 Reproduced.** Verified against ardeco/charts/FIG9.doc.
- **Figure 10 Reproduced.** Verified against ardeco/charts/FIG10.doc.
- **Figure 11 Reproduced.** Verified against ardeco/charts/FIG11.doc.

Results in the Annex

- **Table A1** Does not show analysis results.
- **Table A2** Does not show analysis results.
- **Table A3 Reproduced.** Verified against the statistics shown in Stata results window.
- **Table A4 Reproduced.** Verified against the statistics shown in Stata results window.
- **Table A5 Reproduced.** Verified against wbes/tableA5.doc. Minor formatting differences.
- **Table A6 Reproduced.** Verified against wbes/tableA6.doc. Minor formatting differences.
- **Figure A1a Reproduced.** Verified against wbes/tableA1a.doc.
- **Figure A1b Reproduced.** Verified against wbes/tableA1b.doc.
- **Figure A1c Reproduced.** Verified against wbes/tableA1c.doc.
- **Figure A1d Reproduced.** Verified against wbes/tableA1d.doc.
- **Figure A1e Reproduced.** Verified against wbes/tableA1e.doc.
- **Figure A1f Reproduced.** Verified against wbes/tableA1f.doc.
- **Figure A1g Reproduced.** Verified against wbes/tableA1g.doc.
- **Figure A1h Reproduced.** Verified against wbes/tableA1h.doc.
- **Figure A1i Reproduced.** Verified against wbes/tableA1i.doc.
- **Figure A1j Reproduced.** Verified against wbes/tableA1j.doc.
- **Figure A1k Reproduced.** Verified against wbes/tableA1k.doc.
- **Figure A1l Reproduced.** Verified against wbes/tableA1l.doc.
- **Figure A2 Reproduced.** Verified against the figure generated in Stata.
- **Figure A3a Reproduced.** Verified against wbes/tableA1a.doc.
- **Figure A3b-e Reproduced.** Verified against wbes/tableA1be.doc.
- **Figure A3f Reproduced.** Verified against wbes/tableA1f.doc.
- **Figure A3g-i Reproduced.** Verified against wbes/tableA1gi.doc.
- **Figure A3j Reproduced.** Verified against wbes/tableA1j.doc.
- **Figure A3k Reproduced.** Verified against wbes/tableA1k.doc.
- **Figure A3l Reproduced.** Verified against wbes/tableA1l.doc.
- **Figure A3m-n Reproduced.** Verified against wbes/tableA1lm.doc.
- **Figure A3o-q Reproduced.** Verified against wbes/tableA1oq.doc.
- **Figure A3r-u Reproduced.** Verified against wbes/tableA1ru.doc.

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 @ 2.90GHz
- Memory available: 32.0 GB
- Software version: Stata 19.5 MP