



Untying the Knot: Divorce Legalization and the Decline of Marriage

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This review verifies the reproducibility of the exhibits included in the paper “*Untying the Knot: Divorce Legalization and the Decline of Marriage*”.

Contents in this review:

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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. Stata: Updating the working directory in line 41 of the do-file "01_master_project.do", and running it.
 2. Matlab: Running the code in "04_code_matlab" to produce Figure 6 and Table 3.
- 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 16 July, 2026.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, limited-access, and restricted data.
 - Open data is included in the public reproducibility package.
 - Reviewers used limited-access and restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - Reviewers did not verify the limited-access data against the data provided by the authors, as access requires human approval.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire limited-access and 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 (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.
- **Figure 6** Reproduced. Produced in MATLAB.
- **Figure 7** Reproduced.
- **Figure 8** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced. Produced in MATLAB.
- **Table 4** Reproduced.
- **Table 5** Reproduced.

Results in the Annex

- **Figure A1** Reproduced.
- **Figure A2** Reproduced.
- **Figure A3** Reproduced.
- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A3** 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: 32.0 GB
- Software version: Stata 19.5 MP