



Rationalizing Informality: Self-Employment, Job Quality and Growth

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This review verifies the reproducibility of the exhibits included in the paper "*Rationalizing Informality: Self-Employment, Job Quality and Growth*".

Contents in this review:

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2. List of exhibits and reproducibility status
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Main findings

- **Every exhibit of the paper has been reproduced accurately.**
- The code was partially reproduced on a new computer due to redistribution restrictions on the code used to transform raw data into intermediate data.
- The code starting from intermediate data was successfully executed on a new computer after:
 1. Updating the working directory in line 6 of the do-file "o. Master", and running it.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 25 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on June 30, 2026.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open and restricted data.
 - 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 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

1. Introduction

- **Figure I.1** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure I.2** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure I.3** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure I.4** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure I.5** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Table I.1** Reproduced

2. Chapter 1

- **Figure 1.1.a** Reproduced
- **Figure 1.1.b** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.2** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.3.a** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.3.b** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.4** Reproduced with changes.
- **Figure 1.5** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.6** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.7** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.8** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 1.9** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.10.a** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 1.10.b** Reproduced with changes. There is a small typo in the x-axis labels in the manuscript but this does not affect reproducibility.
- **Figure 1.11.a** Reproduced with changes. Formatting differs but this does not affect reproducibility.

- **Figure 1.11.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 1.12.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 1.12.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 1.13.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 1.13.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 1.14** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Table 1.1.a** *Reproduced with changes* Some values in the code output are not included in the manuscript. This does not affect reproducibility.
- **Table 1.1.b** *Reproduced with changes* Some values in the code output are not included in the manuscript. This does not affect reproducibility.
- **Table 1.2** *Reproduced*.

3. Chapter 2

- **Figure 2.1.a** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 2.1.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.1.c** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 2.2** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.3** *Reproduced with changes*. Formatting differs (scale-difference) but this does not affect reproducibility.
- **Figure 2.4.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.4.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.5.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.5.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.6.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.6.b** *Reproduced with changes*.
- **Figure 2.6.c** *Reproduced with changes*.
- **Figure 2.7** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.8** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 2.9** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 2.10** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 2.11.a** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.
- **Figure 2.11.b** *Reproduced with changes*. Formatting differs but this does not affect reproducibility.

- **Table 2.1** Does not apply. This table is from an external source. For the full citation, please refer to the README file.
- **Table 2.2** Reproduced. For US, figures from an external source specified in the README file.

4. Chapter 3

- **Figure 3.1** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.2** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.3** Reproduced.
- **Figure 3.4** Reproduced.
- **Figure 3.5** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.6** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.7** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.8** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.9** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.10** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.11** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.12** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.13** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.14** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.15** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.16** Reproduced.
- **Figure 3.17** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.18** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.19** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.20** Reproduced with changes. Formatting differs but this does not affect reproducibility.
- **Figure 3.21** Reproduced.
- **Figure 3.22** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Table 3.1** Reproduced with changes. Some values in the code output not in the paper, but this does not affect reproducibility.
- **Table 3.2** Reproduced.
- **Table 3.3** Reproduced.
- **Table 3.4** Reproduced.
- **MAP 3.1** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.

5. Chapter 4

- **Figure 4.1.a** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.
- **Figure 4.1.b** Does not apply. This figure is from an external source. For the full citation, please refer to the README file.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 8.15 GB
- Software version: Stata 19.5 MP