



Inequality, Education, and Occupational Change in the Philippines

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This review verifies the reproducibility of the exhibits included in the paper “*Inequality, Education, and Occupational Change in the Philippines*”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

Main findings

- **Every exhibit in the main paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the working directory.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1 hour 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: accessible (public but not included in the reproducibility package), and limited-access (forthcoming on Development Data Hub).
 - Reviewers used forthcoming/accessible data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The limited-access data is forthcoming on the World Bank Development Data Hub.
 - *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. Reviewers did not verify that the accessible data matches what was provided by the authors.
- **Reproducibility Summary:**
 - **Data:** Some data is not yet publicly available but is expected to be made available through the World Bank Development Data Hub in the future.

- **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 Results reproduced.** The values were copied from the results window to the excel file to create the figure.
- **Figure 2 Reproduced.** The exhibit was compared against *Fig2.density_weekly_wage.gph*.
- **Figure 3 Reproduced.** The exhibit was compared against *Fig3_educ_hour_shares_all.gph*.
- **Figure 4 Reproduced.** The exhibit was compared against *Fig4.Comp-adj-lnwgs-all.gph*.
- **Figure 5 Reproduced.** The exhibit was compared against *Fig5.college Premium_weekly wage gap by Gender.gph*.
- **Figure 6 Reproduced.** The exhibit was compared against *Fig6.College-High-School Log Relative Supply by gender.gph*.
- **Figure 7A Reproduced.** The exhibit was compared against *Fig7a.Relative-supply-index-expcat1-bygender.gph*.
- **Figure 7B Reproduced.** The exhibit was compared against *Fig7b.Relative-supply-index-expcat3-bygender.gph*.
- **Figure 8 Reproduced.** The exhibit was compared against *Fig8>Returns to educ_occup_RIF.gph*.
- **Figure 9 Reproduced.** The exhibit was compared against *Fig9.change in weekly wage by occup.gph*.
- **Figure 10 Reproduced.** The exhibit was compared against *Fig10.Change in occup shares_total_pp.gph*.
- **Figure 11 Reproduced.** The exhibit was compared against *Fig11.change in occup_college vs non-college_pp.gph*.
- **Figure 12A Reproduced.** The exhibit was compared against *Fig12A.Density_wage_reweighted.gph*.
- **Figure 12B Reproduced.** The exhibit was compared against *Fig12B.Wagechange_reweighted.gph*.
- **Figure 13A Results reproduced.** The values were copied from the results window to the excel file to create the figure.
- **Figure 13B Results reproduced.** The values were copied from the results window to the excel file to create the figure.

Results in the Annex

- **Table 1A Reproduced.** The exhibit was compared against *Tab1A_Rif_coeff_ineq.csv*.
- **Table 2A Reproduced.** The exhibit was compared against *Tab2A_Rif_coeff_quant.csv*

- **Figure 1A Reproduced.** The exhibit was compared against *Fig1A.Educ_hour_shares_mf.gph*.
- **Figure 2A Reproduced.** The exhibit was compared against *Fig2A.lnwgs-male_female.gph*.
- **Figure 3A Reproduced.** The exhibit was compared against *Fig3A>Returns to educ_occup_RIF_yearly.gph*.
- **Figure 4A.A Reproduced.** The exhibit was compared against *Fig4A.wagechange_reweighted_final_men.gph*.
- **Figure 4A.A Reproduced.** The exhibit was compared against *Fig4A.wagechange_reweighted_final_women.gph*.
- **Figure 5A Results reproduced.** The values were copied from the results window to the excel file to create the figure.

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 18.0 MP