



Foreign Demand Shocks and Domestic Value Added: Firm-Level Evidence from Viet Nam

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Padmakshi Singh, Mahin Tariq

reproducibility@worldbank.org

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This review verifies the reproducibility of the exhibits included in the paper “*Foreign Demand Shocks and Domestic Value Added: Firm-Level Evidence from Viet Nam*”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
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Main findings

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Changing the file paths in the main do file
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on October 19th/published paper.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, accessible (public but not included in the reproducibility package) and restricted data (available only from the authors).
 - Open data is included in the public reproducibility package.
 - 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 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, please 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 1a Reproduced.** This exhibit was compared against *decomposition_dvar_firm_changes.png*
- **Figure 1b Reproduced.** This exhibit was compared against *dvar_tiva_stata.png*
- **Figure 2 Reproduced.** This exhibit was compared against *dvar_agg.png*
- **Figure 3 Reproduced.** This exhibit was compared against *decomposition_dvar_firm_changes.png*
- **Figure 4a Reproduced.** This exhibit was compared against *dvar_unwgt.png*
- **Figure 4b Reproduced.** This exhibit was compared against *dvar_wgt.png*
- **Figure 5a Reproduced.** This exhibit was compared against *materials.png*
- **Figure 5b Reproduced.** This exhibit was compared against *prod*
- **Figure 6a Reproduced.** This exhibit was compared against *output.png*
- **Figure 6b Reproduced.** This exhibit was compared against *labor.png*
- **Figure 7a Reproduced.** This exhibit was compared against *imp_mat.png*
- **Figure 7b Reproduced.** This exhibit was compared against *dom_mat.png*
- **Figure 8 Reproduced.** This exhibit was compared against *imp_mat_b_ratio.png*
- **Figure 9a Reproduced.** This exhibit was compared against *total_exports.png*
- **Figure 9b Reproduced.** This exhibit was compared against *us_exports.png*
- **Figure 9c Reproduced.** This exhibit was compared against *nonus_exports.png*
- **Figure 10a Reproduced.** This exhibit was compared against *total_imports_expshock.png*
- **Figure 10b Reproduced.** This exhibit was compared against *chn_imports_expshock.png*
- **Figure 10c Reproduced.** This exhibit was compared against *nonchn_imports_expshock.png*
- **Figure 11 Reproduced.** This exhibit was compared against *dvar_tariff_quartile.png*
- **Figure 12 Reproduced.** This exhibit was compared against *robust_dvar_specifications.png*

- **Figure 13 Reproduced.** This exhibit was compared against *dvar_by_forcty.png*
- **Figure 14a Reproduced.** This exhibit was compared against *usexp_foreign_chn.png*
- **Figure 14b Reproduced.** This exhibit was compared against *usexp_foreign_chn2.png*
- **Figure 15a Reproduced.** This exhibit was compared against *chnimp_foreign_chn.png*
- **Figure 15b Reproduced.** This exhibit was compared against *chnimp_foreign_chn2*
- **Figure 16a Reproduced.** This exhibit was compared against *dvar_foreign_chn.png*
- **Figure 16b Reproduced.** This exhibit was compared against *dvar_foreign_chn2.png*
- **Figure 17a Reproduced.** This exhibit was compared against *ind_roo_max.png*
- **Figure 17b Reproduced.** This exhibit was compared against *ind_roo_mean.png*
- **Figure 17c Reproduced.** This exhibit was compared against *ind_roo_median.png*
- **Figure 18 Reproduced.** This exhibit was compared against *dvar_roo_abmed.png*
- **Figure 19a Reproduced.** This exhibit was compared against *CHN_fdi_mf_share_asia_pac.png*
- **Figure 19b Reproduced.** This exhibit was compared against *USA_fdi_mf_share_asia_pac.png*
- **Figure 20 Reproduced.** This exhibit was compared against *increase_labor_decomp.png*
- **Figure 21 Reproduced.** This exhibit was compared against *dvar_by_birthyear.png*
- **Table 1 Reproduced.** This exhibit was compared against *dvar.tex*
- **Table 2 Reproduced.** This exhibit was compared against *real_vars.tex*
- **Table 3 Reproduced.** This exhibit was compared against *Exports.tex*
- **Table 4 Reproduced.** This exhibit was compared against *rob_alt_usshock.tex*

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets 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 281910, the Stata version used was 18, and the exhibits selected were: Figures A1, A2, A4, A5, A6, A8, A9, A10, A12, A13.

- **Figure A1 Reproduced.** This exhibit was compared against *export_intensity.png*
- **Figure A2 Reproduced.** This exhibit was compared against *dvar_output_17_corr.png*
- **Figure A4 Reproduced.** This exhibit was compared against *corr_exp_imp_share.png*
- **Figure A5 Reproduced.** This exhibit was compared against *corr_usexp_chimp.png*

- **Figure A6a Reproduced.** This exhibit was compared against *us_asia_europe_dvar_es.png*
- **Figure A6b Reproduced.** This exhibit was compared against *asia_europe_dvar_es.png*
- **Figure A8a Reproduced.** This exhibit was compared against *nonusexp_foreign_chn.png*
- **Figure A8b Reproduced.** This exhibit was compared against *nonusexp_foreign_chn2.png*
- **Figure A9a Reproduced.** This exhibit was compared against *dommat_foreign_chn.png*
- **Figure A9b Reproduced.** This exhibit was compared against *dommat_foreign_chn2.png*
- **Figure A10 Reproduced.** This exhibit was compared against
- **Figure A12 Reproduced.** This exhibit was compared against *dvar_us_post_exp_status.png*
- **Figure A13a Reproduced.** This exhibit was compared against *increase_CH_imp_decomp.png*
- **Figure A13b Reproduced.** This exhibit was compared against *increase_US_exp_decomp.png*

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
- Memory available: 15.7 GB
- Software version: Stata 18.0 MP