REPLICATION PROJECT CHECK-IN 4: PEER REVIEW

Repository: [battini-garizio-lee-zlavog-replication-project](#)

STATUS CHECK
WHO checked WHAT, and HOW?

REVIEW OWNER	CHECKED BY	STATUS
OUTPUTS MATCH	All team members	**Passed**
LICENSES	Aboli Moroney	**Incomplete**
DIFFERENCES RELEVANT	Mayank Goel	**Passed**
OPEN FORMATS	Harini Ramprasad	**Passed**
FAIR DATA & SOFTWARE	Samarth Modi	**Passed**

Please refer to the descriptions below on details of what was checked and how for each checkpoint.

OUTPUTS MATCH
Do the generated outputs match the ones in the paper in the target group's repo?

- We needed to install the 'Pacman' package manually to Knit the paper.rmd successfully. We also got 50+ warnings while installing this package and it took more than 10 minutes to install this package.
- We generated a word document by knitting the R Markdown (paper.rmd) that is provided in the target group's repository (paper.docx). The generated word document matches the target file.
- We were also able to match the outputs of the paper which were claimed by the team.
  - Figure 1: Effect of annual average temperature on economic production.
  - Figure 2: Country-level income projections with and without temperature effects of climate change with SSP5 on the left and SSP3 on the right

LICENSES
Are used pieces of software and data properly CITED and with suitable LICENSES?

- We checked the README.md for the Git repository. Under the 'Dependencies' section, the softwares R and Stata and packages have been listed with the required version numbers and OS requirements.
- We did not see any DESCRIPTION file containing licenses being cited for the software or data though.
- The README.md also contains a hyperlink to the original data source from where we can download the raw data for this replication study. This has also been cited in the paper.rmd.

- Further, we checked the 'References' section from the knitted paper.rmd. With the exception of the last reference which does not provide details about author names, all others were cited correctly.

DIFFERENCES RELEVANT
Are the differences relevant or not?

- We took the diff of the knitted document on our local machines with the available document in the target repo to check the differences. The results generated at our end matched exactly with the results in paper.docx uploaded in the target repo. There were no relevant differences to comment on.
- We were not able to evaluate the differences between the original paper and the reproduced paper as the original paper is paid and not directly accessible.

OPEN FORMATS
Are open formats (text-based) included?

- All of the authors' code and documents are in open format. The text-based open format documents include the R Markdown file as well as the knitted word document. In addition, the data, analysis R scripts have also been made available in open format.
- However, it is a noteworthy mention that the original paper that the authors chose to replicate is not available for viewing without a subscription or login credentials.

'FAIR' DATA AND SOFTWARE
Is the data and software FAIR?

FAIR CATEGORY	SOFTWARE	DATA
Findable	Passed	Passed
Accessible	Passed	Passed
Interoperable	Passed	Passed
Reusable	Passed	Passed