Reproduction of

< Insert title of original study >

by < Insert Names of original authors in Kedron, P.J. format >

in: Journal, Volume(Issue), pages

Reproduction Authors:
Insert reproduction author names in Peter Kedron format

Reproduction Materials are Available at:
Insert location of finalized reproduction materials, or procedure to access reproduction materials

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Abstract

Briefly describe the original analysis – research design, analytical approach, and results; motivation of the reproduction; and outline of the reproduction study

*Related content is available on the project GitHub repository (https://github.com/HEGSRR) and OSF repository (WEB ADDRESS). **Corresponding Author:** Peter.Kedron@asu.edu

Original Study Information

Present key information about the original study.

1. Identify the type of study (e.g., experiment, observational, meta-analysis).
2. Describe the original effect – effect size, inference criteria (e.g., confidence interval), sample size
    a. Identify the spatial coverage over which each hypothesis is expected to hold, and the spatial coverage at which each hypothesis will be tested (e.g., the entire study area, a specific sub-region)
3. Provide the spatial extent of the study area and scale(s) of analysis
4. What type of sample/data did the original study use?
5. Are the data and code used in the original analysis available/used in this reproduction?

Data Description

Describe the data used in the original study.

1. Briefly describe the dataset(s), and any sub-set(s) of the data that will be used in this study.
    a. If selected datasets or sub-sets cover only portions of the overall study area, clearly identify which datasets are associated with which locations.
2. If the data used in the original study are not available with that study, describe how that data will be obtained. Discuss if/how the retrieved data will be compared with the original study (e.g., using summary statistics).
3. If the original study geographically masked the data, explain how the original data was accessed.

Materials and Procedure

Describe how the reproduction study will be implemented and identify any materials and procedures used to complete the reproduction.

1. For computational studies include information about the hardware and software environments of both the original study and the reproduction attempt.

Analysis

Describe how the original analysis will be reproduced and what criteria will be use to assess the success of the reproduction.

1. Explain how the analysis of the reproduction will proceed and identify if the analysis plan will match the original study.
2. Identify the criteria that will define whether the reproduction attempt was successful (e.g., matched statistical significance, direction of effect, similar magnitude of effect)

Differences from the Original Study

Describe any differences between the reproduction attempt and the original study.

1. Identify any differences from the original study in a) location, b) sampling, c) data, d) measures/variable construction, d) analytical techniques
2. State how the differences identified above may influence the expected size/direction of the effect of the original study
3. Outline any steps that were taken to assess whether the differenced identified above will influence the outcome of the reproduction attempt.

Reproduction Results

Provide a judgement of the success or failure of the reproduction attempt following the criteria established in the *Analysis* section. Explain why the judgement was made.

1. Provide information about where others can find the produces (e.g., data, code, figures, reports) associated with the reproduction attempt.

Unplanned Deviations from the Protocol

Identify any unplanned deviations from the protocol presented above. Provide information as to why the deviation occurred and identify if/how the deviation may have affected the results of the reproduction attempt.

Discussion

Discuss key aspects of the reproduction attempt that are of particular interest or merit further discussion. If the attempt was a failure, discuss possible causes of the failure. *Practical Causes* – related to lack of data, code, details in the original analysis; *Informative Causes* – related to absence of effect, change in population, or location. Identify any limitations of the reproduction attempt.

References

Include any referenced studies or materials