

Survey on Reproducibility Practices

Dear researchers, We @Penn State are developing AI to estimate the reproducibility and replicability of published findings in the social and behavioral sciences. Therefore we are doing this survey to understand the perceptions and the current challenges encountered by the academic researchers. We would appreciate if you might be willing to share your perspectives about the reproducibility and replicability of work in your field/community. This will take less than 15 minutes! We promise :)

Potential Risks and Discomforts

There is minimal risk to you if you participate in the study. During the process of taking the survey, if you experience any discomfort you can choose to drop out of the survey anytime.

Confidentiality

Any potential loss of confidentiality will be minimized by collecting the data via an online survey provider and stored in the survey provider's database. Once the information is downloaded from the online survey provider, it will be stored in a password-protected laptop computer. Permission will only be given to the investigators to access the data.

You must be 18 years of age or older to participate. If you are not 18 or older, please do not agree to participate. Your decision to be in this research is voluntary. Please be assured you do not have to participate unless you wish to do so.

Thank you for your help and support!

This survey is Penn State IRB approved. Further information is available: Tatiana Chakravorti, tfc5416@psu.edu

* Indicates required question

1. Please provide your consent: I consent to participate in the research study and I agree that my age is more than 18 years. I comprehend the study's purpose and its nature, and I am participating voluntarily. I am aware that I have the option to withdraw from the study at any time, without incurring any penalties or consequences. *

Mark only one oval.

☐ Yes

☐ No

2. Field of Research (e.g., computer science, mechanical engineering, economics, sociology, etc. Please mention in details)

3. Position (i.e., assistant professor, others)

4. Country of residence

5. Country of Work currently

6. Have you heard much about the "reproducibility crisis" in science?

Mark only one oval.

☐ Quite a lot

☐ A little bit

☐ Not really

7. To what extent would you say your peers (colleagues in your field) are concerned about the "reproducibility crisis"?

Mark only one oval.

☐ Quite a lot

☐ A little bit

☐ Not really

☐ Other:

8. Have you ever tried to repeat a research study someone else published?

Mark only one oval.

☐ Yes

☐ No

☐ Other: _____

9. If yes, how did it go? Did you have enough information and materials to repeat the study or were you missing key elements? If you were able to repeat the study, was your reproduction/replication result affirmative? (Please describe)

10. What factors contribute to *lack* of reproducibility in your field? (select all that apply)

Tick all that apply.

☐ Selective Reporting

☐ Pressure to publish

☐ Low statistical power

☐ Insufficient peer review

☐ Raw data not available

☐ Code unavailable

☐ Other: _____

11. What kinds of changes could help support reproducible research practices? (select all that apply)

Tick all that apply.

- ☐ Changes to funding models
- ☐ Changes to publication models
- ☐ Changes to promotion and tenure models
- ☐ Other: _____

12. When you read (or review) a paper, what signals of credibility do you look for? (mark all that apply)

Tick all that apply.

- ☐ Study design
- ☐ Sample size
- ☐ Theoretical basis
- ☐ Pre-registration of study plans
- ☐ Open data
- ☐ Open code
- ☐ Author reputation
- ☐ Journal reputation
- ☐ Other: _____

13. Have you heard much about the "open science" movement?

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Other: _____

14. What do you think of the "open science" movement?

Mark only one oval.

- ☐ No Opinion
- ☐ Slightly Support
- ☐ Mostly Support
- ☐ Strongly Support
- ☐ Slightly Opposed
- ☐ Mostly Opposed
- ☐ Strongly Opposed

15. If you don't support open science, can you provide any reason for that? (This is an Optional question)

16. Should coursework on reproducibility and open science be a part of undergraduate curriculum?

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Other: _____

17. Have you ever pre-registered a study?

Mark only one oval.

☐ Yes

☐ No

☐ Other: _____

18. If you have pre-registered a study, did that pre-registered study turn into a peer-reviewed publication?

Mark only one oval.

☐ Yes

☐ No

☐ Other: _____

19. How frequently have you been asked questions by reviewers of your own work that focus on reproducibility?

20. Have you been asked to share data files, analytic code, or other materials associated during the review process?

21. What best practices do you adhere to in your own work to ensure that your work is reproducible?

22. Your name and email address (totally optional!.. if you share, we'll be happy to send you the outcomes of the study and the work)

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