Improving Openness of Scholarly Communication

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FIG. 3. Norm versus Counternorm Scores: Percent with Norm > Counternorm (dotted), Norm = Counternorm (striped), Norm < Counternorm (solid).
Problems

Flexibility in analysis
Selective reporting
Ignoring nulls
Lack of replication

Referees are **three times as likely** to give red cards to dark-skinned players.

**Statistically significant** results showing referees are more likely to give red cards to dark-skinned players.

Twice as likely

Equally likely

Non-significant results

Source: Brian Nosek et al.

Figure credit: fivethirtyeight.com
Open Science Collaboration, 2015, Science
Incentives for individual success are focused on getting it published, not getting it right.

Nosek, Spies, & Motyl, 2012
Barriers

1. Perceived norms (Anderson, Martinson, & DeVries, 2007)

2. Motivated reasoning (Kunda, 1990)

3. Minimal accountability (Lerner & Tetlock, 1999)

4. I am busy (Me & You, 2016)
Mission: Improve openness, integrity, and reproducibility of research
Documentation
Curation
Preservation
Accessibility
Open Science Framework

A scholarly commons connecting the entire research lifecycle

https://osf.io/
Collaboration
Documentation
Archiving
Study 3: Gupta et al. 2010, Nature

Contributors: Tim Errington, Elizabeth Iorns, William Gunn, Fraser Elisabeth Tan, Sarah Statt, Joelle Lomax, Nicole Perfito

Date Created: 2013-10-22 02:04 PM | Last Updated: 2015-01-20 06:16 PM

Category: Project

Wiki

This project contains all information pertaining to the replication of key experiments from this paper. It includes the detailed protocols, including reagents and author clarifications. We also include any comments from other contributors, researchers from the Science Exchange network, and further information with the original authors that we have learned since the beginning of the project. When experimental studies begin all data collected will also be deposited here, including data analysis...

Files

Search

Recent Activity

All times displayed at -0700 UTC offset.

2015-01-20 06:16 PM  Tim Errington added Nicole Perfito as contributor(s) to
Version Control
Bowman.ACS.2015.08.17.pptx

Revisions

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Merges Public-Private Workflows
Incentives for Openness
File downloads

Forks
Registration cannot be undone, and the archived content and files cannot be deleted after registration. Please be sure the project is complete and comprehensive for what you wish to register.

Type "register" if you are sure you want to continue

https://osf.io/wx7ck/

https://osf.io/c97pd/
Register

Is data collection for this project underway or complete?

No

Have you looked at the data?

No

Other Comments

This registration includes a pre-analysis plan and all of the project materials, but will remain private until data collection is complete.

Registration cannot be undone, and the archived content and files cannot be deleted after registration. Please be sure the project is complete and comprehensive for what you wish to register.

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Connects Services Researchers Use
Component: Demo Add-Ons

GitHub: AndrewSallans/demofiles master d2e68a6246
- ExamplePythonNotebook.ipynb
- ExampleImage.jpg
- ExampleCSV.csv
- ExampleImage.png
- ExampleSPSS.sav
- ExamplePython.py
- ExampleSpreadsheet.xlsx
- ExamplePDF.pdf
- ExampleR.r
- ExampleWordDocument.docx

Amazon Simple Storage Service: osfdemofiles

FigShare: demofiles:892

Dropbox: /demofiles
- ExampleImage.jpg
- ExampleImage.png
- ExamplePDF.pdf
- ExamplePython.py
- ExampleSPSS.sav
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- Attention, Perception, & Psychophysics
- Cognition and Emotion
- Comprehensive Results in Social Psychology
- Cortex
- Drug and Alcohol Dependence
- eLife
- Euro Journal of Neuroscience
- Experimental Psychology

- Journal of Accounting Research
- Journal of Business and Psychology
- Journal of Personnel Psychology
- Journal of Media Psychology
- Nutrition and Food Science Journal
- Perspectives on Psych. Science
- Royal Society Open Science
- Social Psychology
- Stress and Health
- Work, Aging, and Retirement
Promoting an open research culture

Author guidelines for journals could help to promote transparency, openness, and reproducibility


http://cos.io/top

538 Journals
58 Organizations
What can you do?

• Libraries and institutions
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  – SHARE Harvesters
  – OSF Integrations
  – OSF for Meetings
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Email: Support@cos.io or nosek@virginia.edu