



Open Science, fair science

Davide Crepaldi

University of Pavia

Italian Reproducibility Network

Abbracciare il futuro. Fare Scienza Aperta oggi.

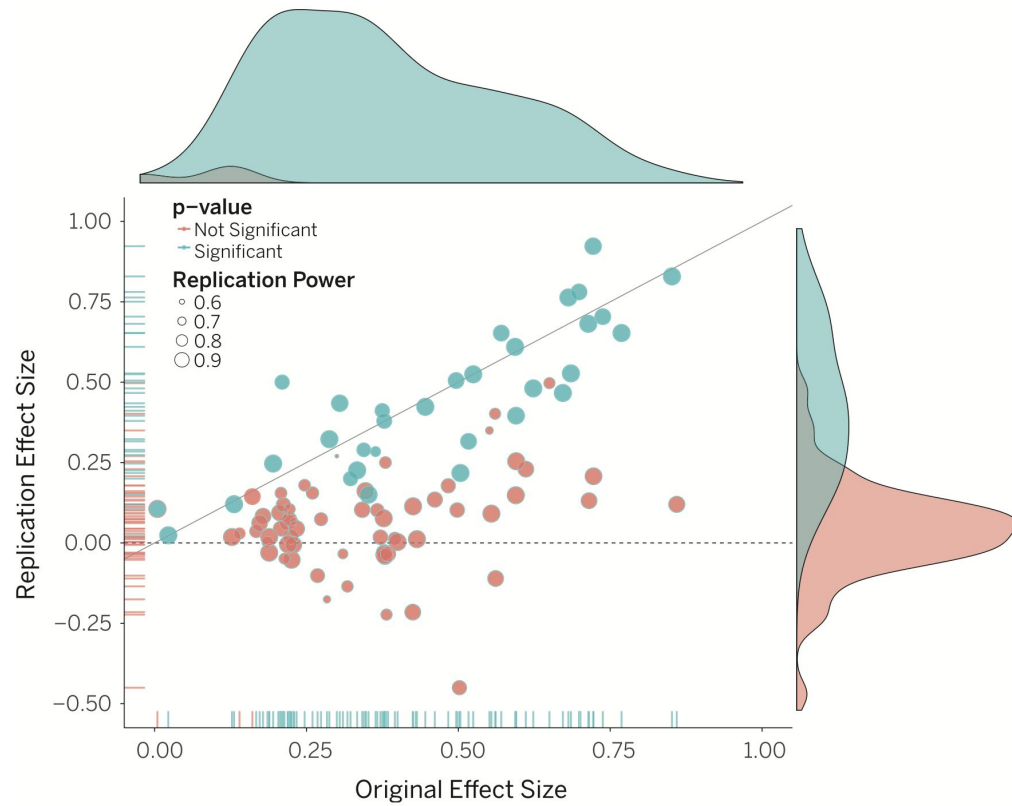
Università degli studi di Ferrara

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(Open Science Collaboration, 2015)



Why?

1. Low-power research
2. Publication bias -> p hacking + file drawer
3. Unaccounted research degrees of freedom
4. Hunger for novelty vs. confirmation



Possible solutions?

Issue	Solution
Low-power research	Multi-lab collaborations, on-line testing
Publication bias -> p hacking + file drawer	Pre-registration, registered report
Unaccounted degrees of freedom	

No one-size-fits-all solution...

...but you can still improve the pipeline!

How to Prosper and Live Happy in Crepaldi's lab at SISSA

A lab userguide

(Inspired by Jonathan Peelle's lab manual)

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Share everything

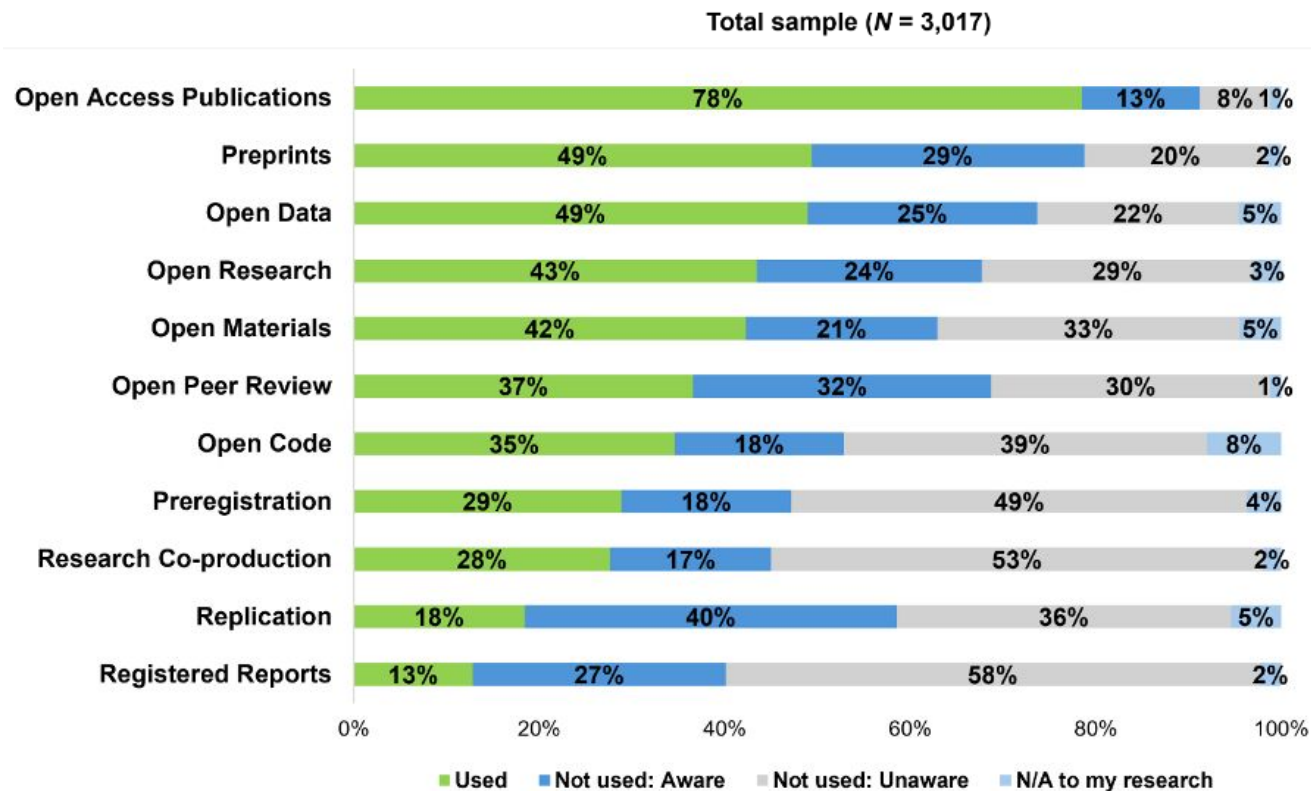
- Code
- Stimuli
- Data
- Papers
- What you're working on, early on (e.g., conferences, socials)



But solutions bring further issues

- Ownership and leadership
- Ethics, privacy, protection
- Quality vs. quantity
- Coding skills and infrastructures (e.g., scripting, large data, servers)
- [...]

Knowledge vs. use



(Pennington et al., 2026)

Incentives



CoARA

Coalition for Advancing
Research Assessment



Advantages people often don't see

- We're too lazy and too busy to do things twice (ref. Tal Yarkoni)
- Protect your work and ideas
- If you're good, you get popular



ITRN

- A grassroot community, peer-led
- Find a lot of expertise to get help from
- Seminars, PhD courses, ...
- Part of a large international consortium (25 RN around the world)
- Very cheap (30€ for individuals, 250€ for institutions)





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