Diversity, Accessibility, and Inclusion in ‘Open Science’

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What is Open Science?
Open Data, Open Methods, Open publishing, Open Scholarship

Feminism and Open Science
How the two interrelate

Challenges for engaging in Open Science as a feminist ECR
The barriers that exist

Benefits of engaging in Open Science as a feminist ECR
What there is to gain from OS

https://psyarxiv.com/f9m47
Is (psychological) science broken?

Concern for Open Science

- Replication: The ability for other researchers to directly replicate your findings in a different sample with different data

- Reproducibility: The ability for other researchers to directly reproduce your findings in the same data

- Good Science!: Robust, transparent methodologies
  - Emerging attitudes and cultural changes
  - Questionable Research Practices
Questionable Research Practices (QRPs)
Munafo et al., 2017

- Publish and/or conduct next experiment
  - Publication bias
- Generate and specify hypothesis
  - Failure to control for bias
- Design study
  - Low statistical power
- Conduct study and collect data
  - Poor quality control
- Analyse data and test hypothesis
  - P-hacking
- Interpret results
  - P-hacking

HARKing
FOSTER’s Open Science Taxonomy
What is Open Science?

Open Data
Open and transparent sharing of study data, allowing reproducibility

Open Materials
Open and transparent sharing of study materials

Open Access
Transparency and openness in publishing. Improving accessibility

Open Scholarship
A culture which welcome scholarly openness and robust methods

See also: alternative publishing tools (pre-registration and Registered Reports)
“As open as possible, as closed as necessary"
Barriers to engagement with Open Science

- Power imbalances and exacerbating ECR’s vulnerability
- Open Science and non-quantitative approaches
- Vulnerable to abrasive and competitive online debates
  -- #BopenScience
- Invisible labour
Open Science in the Global South

• Why do we care about OS in the Global South?

• Unique challenges

• Outreach to researchers (outside of UK/EU and Northern America) – NOT a ‘one-size-fits-all’ approach

• Existing collaborations and myths
Tip 1
Start at your own pace
There is no ‘all or nothing’ way to participate

Tip 2
Do what you need to survive
We need to contextualize Open Science in neoliberal academia

Tip 3
Engage in research advocacy
Help others, be collegiate

Tip 4
Be as open as possible
Not all data can be open, not all data should be open

Tip 5
Find (or create) your community
Community will get you through!
Thanks!

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