Alexander Strobel, Anne Gärtner
Faculty of Psychology

Workshop Open Science Practices – Part 1
Wrap Up

02.02.2022

Wrap Up
Overview

What we covered

– Power

– Data collection

– P-hacking

– Publication Bias

– Preregistration

What comes in second part of the workshop (stay tuned!)

– Open Access

– Open Data and Materials

– Reproducible Analyses

– More Excercises

Wrap Up
8 easy steps to increase your openness

1. Provide **open data, material**, and/or **reproducible code** (e.g., OSF/OPARA/ZPID)

   - For the next project: Change the consent forms in a way that open data would be possible for that project (see https://osf.io/mgwk8/wiki/Consent%20form%20templates%20for%20open%20data/)

   - For the next data analysis: Practice to create scripts for reproducible data analysis (e.g., SPSS syntax, R scripts). All analytic steps that lead from raw data to the final results should be reproducible.

   - Publish your first open data set: Ensure anonymity, provide a codebook. See here for details: http://econtent.hogrefe.com/doi/pdf/10.1026/0033-3042/a000341

2. Publish **preprints**

3. **Preregister** your studies

4. Use the **21 word solution** in your manuscripts

5. Include the **standard reviewer statement** for disclosure in your reviews

6. Do **power calcualtions** and well powered studies

7. Try to detect and avoid (or be transparent about) **biases** (e.g., forking path analysis)
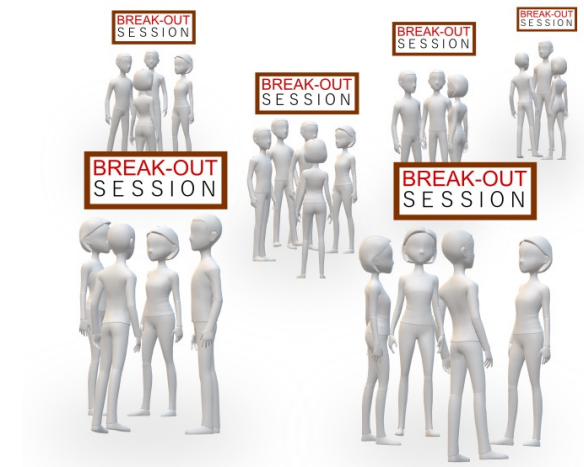
8. Visit **OSIP**

Wrap Up

Open Science practices are like a **buffet**, you can take what you want – not all at once!

Wrap Up
A final group discussion

– Form groups of 2-3

– 5 min. discussion in breakout rooms on the question:

What are the **next steps** you could try to implement Open Science elemets in your **research**?

TECHNISCHE
UNIVERSITÄT
DRESDEN

DRESDEN
concept

MGK Open Science Module
Find all workshop material here

TU Dresden | semesterübergreifend

MGK Open Science Module

Verantwortliche/r: Anne Gärtner | Alexander Strobel | Patricia Schimm | Josephine Zerna | Stefan Scherbaum

Doing research responsibly, efficiently and transparently

With this e-learning module, we would like to support you in conducting your research efficiently and transparently according to the rules of good scientific practice. To this end, this module combines three workshops:

- Workshop 1: Good Scientific Practice
- Workshop 2: Research Data Management
- Workshop 3: Research Transparency

For each workshop, online content is provided, but there will also be virtual or presence meetings of one to two days to follow up on essential issues of each workshop. You are free to go through the online content of each workshop as your times allows, but you are required to attend the respective meetings to follow up on the online content of each workshop during the initial period of your doctoral studies. Be assured that you will find the topics dealt with most helpful for your scientific work.

https://bildungsportal.sachsen.de/opal/auth/RepositoryEntry/25989742594/CourseNode/1022981296639372

Thank you!

Evaluation

https://redcap.zih.tu-dresden.de/redcap/surveys/?s=HYKNDCEKY7LYKA9M

Workshop Open Science Practices – Part 1
Faculty of Psychology / Alexander Strobel / Anne Gärtner
Dresden // 01.02.22

Folie 8

TECHNISCHE
UNIVERSITÄT
DRESDEN

DRESDEN
concept

Credentials

The creation of this workshop material was partially funded by the SFB 940.

Some slides of the workshop were taken or adapted from the Open Science Workshop Materials of the LMU Open Science Center: https://osf.io/zjrhu/wiki/home/

TECHNISCHE UNIVERSITÄT DRESDEN

Workshop Open Science Practices – Part 1
Faculty of Psychology / Alexander Strobel / Anne Gärtner
Dresden // 01.02.22

Folie 9

DRESDEN concept