

Alexander Strobel, Anne Gärtner
Faculty of Psychology

Workshop Open Science Practices – Part 1

Wrap Up

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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 Exercises



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 calculations** 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!



MGK Open Science Module

Find all workshop material here

The screenshot shows the OSFHOME interface for a project titled 'Open Science Workshop for CRC at TUD'. The header includes navigation links like 'My Projects', 'Search', 'Support', 'Donate', and a user profile for 'Anne Gärtner'. The project page displays metadata such as '39.0MB', 'Public', and '0' participants. It lists contributors (Josephine Zerna, Alexander Strobel, Anne Gärtner), creation and update dates, and a category of 'Project'. A description states it's a project to share materials for PhD students at TU Dresden. The license is 'CC-BY Attribution 4.0 International'. The main content area is divided into sections: 'Wiki' (with a text input field), 'Files' (showing a list of files including 'Self-Study Material', 'Slides of Workshop I', and 'Slides of Workshop II'), 'Citation', 'Components', 'Tags' (with tags like 'openscience', 'teaching', 'workshop'), and 'Recent Activity' (showing a file upload by Josephine Zerna).

OSF

The screenshot shows the GitHub repository page for 'JZerna / OpenScience_Course'. The header includes a 'Sign up' button, the GitHub logo, and a hamburger menu. The repository is public and has 0 notifications, 0 forks, and 0 stars. The main content area shows a list of commits, including 'JZerna wrote Replication chapter', '01_Material Day 1', '02_Material Day 2', '03_Handbook', and 'README.md'. The 'About' section describes the repository as a course hosted by the Modulgraduiertenkolleg (MGK) of the Collaborative Research Centre 940 at the Technische Universität Dresden. The 'Releases' section shows 'No releases published'.

Github

<https://osf.io/djkm6/> | https://github.com/JZerna/OpenScience_Course

Evaluation

https://redcap.link/os_eva1



Thank you!

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/>



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