

Alexander Strobel, Anne Gärtner, Christoph Scheffel  
Faculty of Psychology

# Workshop Open Science Practices

## Part 2

### Wrap Up

# Wrap Up

## Overview

### What we covered today

- Open Access
- Open Data and Materials
- Reproducible Analyses
- Exercises

### What we covered in the first part of the workshop

- Power
- Data collection
- P-hacking
- Publication Bias
- Preregistration

# Wrap Up

## 5 easy steps to increase your openness

1. Provide **open data, materials, 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>
  - Upload (stimulus) **material** that you create on an open repository
2. Publish **Open Access**
3. Publish **Preprints**
4. Try to write a **reproducible manuscript** (or a part of it, e.g. with Rmarkdown)
5. 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 on the question:

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



# MGK Open Science Module

## OPAL Course



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.



# Evaluation

<https://redcap.zih.tu-dresden.de/redcap/surveys/?s=F9PPTX4CY837RPJL>

# Thank you!