Using the Open Science Framework

Enhancing Your Research Projects

Land acknowledgement:

I acknowledge that I live and work on Treaty 6 Territory and the Homeland of the Métis. I pay my respects to the First Nations and Métis ancestors of this place.

About me

Health Sciences Librarian at the University of Saskatchewan (USask)

Have been supporting open science, reproducibility, data management, and data sharing at NIH, NYU School of Medicine, and USask for >8 years

Chair of the Portage Network Data Discovery Expert Group



Kevin Read, MLIS, MAS



Examine the Open Science Framework (OSF) tool within the context of open science best practices

Explore the features of OSF and its capabilities

Use case studies to demonstrate how OSF can be used in practice

Highlight the advantages and disadvantages of using OSF

Open Science AKA...

Open Science Equity Citizen Science **Open Access** Open Data **Open Research Open Education Open Source**

Open Science & OSF Open Science Equity Citizen Science **Open Access Open Data Open Research Open Education Open Source**















Publication





Why does this matter?

Improve transparency, reproducibility, and reuse of research

Avoid duplication of efforts

Increase the potential for collaboration

Make publicly-funded research products openly accessible



OSF: Open Science by Design



Have you ever pre-registered a research project before you started working on it?

Have you ever openly shared your methods, protocols, instruments, or tools before publication?

Have you ever shared your research data before or after publication?

OSF Features

Open Science Framework



Register your work

Organize projects

Manage collaborators

Utilize version control

Connect to well-known tools

Share your work

But first! The basics.

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Files, linked tools, and storage directory

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Key OSF Features

Open Science Framework



Register your work

Organize projects

Manage collaborators

Utilize version control

Connect to well-known tools

Share your work

Register your work

Preregistration:

Make your hypothesis, analysis plan, and/or your entire project public before peer review

Creates a timestamped immutable version of your project

Improves transparency, reproducibility, and discoverability of your research

Can develop brand registries for an entire research community (fee-based)

Public registration 🔻

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The main reasons for the difficulty in replicating published results are believed to lie in a number of problems. First, statistically significant results have a much higher probability of getting published (Dwan et al., 2008; D. Fanelli, 2010; Fanelli, 2012; Sterling, 1959; Sterling, Rosenbaum, & Weinkam, 1995), commonly known as publication bias. Second, many statistically significant results constitute false-positive findings (loannidis, 2005), and many published effect sizes are over-estimated (Bakker, van Dijk, & Wicherts, 2012; loannidis, 2008; Simonsohn, Nelson, & Simmons, 2014; van Aert, Wicherts, & van Asser,

Do current study pre-registrations on the Open Science Framework limit opportunistic

(Asendorpf et al., 2013; Mahoney, 1985; Makel, Plucker, & Hegarty, 2012; Sterling, 1959),

use of researcher degrees of freedom in the design, data collection, analyses and

Attempts to replicate original research findings seem uncommon in psychology

although some argue that the number of replication studies are underestimated

Collaboration, 2015; Pashler & Harris, 2012; Spellman, 2015).

(Neuliep & Crandall, 1993a, 1993b). When replications do occur, they often produce

weaker or no evidence for the original findings (Asendorpf et al., 2013; Open Science

Collaboration, 2015). In recent years, many psychologists have expressed their concerns about the size and the gravity of this problem (Nosek & Lakens, 2015; Open Science

Sampling Plan

Study Information

reporting of studies?

Research Questions

Title

Existing Data

Registration prior to creation of data

Explanation of existing data

Not applicable

Data collection procedures

We randomly selected a total of 106 registrations from two sets of pre-registrations:

- 53 public OSF Standard Pre-Data Collection Registrations
- 53 public COS Prereg Challenge registrations

Contributors

Coosje Lisabet Sterre Veldkamp, David Thomas Mellor, Marjan Bakker, Marcel A.L.M. van Assen, Jelte Wicherts, Brian A. Nosek, How Hwee Ong, Elise Anne Victoire Crompvoets, and Courtney K. Soderberg

Registration type

Prereg Challenge

Date registered

September 14, 2016

Date created September 2, 2016

Registered from osf.io/emh59

Category O Uncategorized

Publication DOI https://doi.org/10.31234/osf.io/cdgyh

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Organize projects

Can group files and content into specific sections called "Components"

Components serve as sub-categories within a hierarchical project structure

Components become their own independent projects

Each Component can have specific collaborators

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Manage collaborators

Assign different permission levels for contributors to a project

All contributors must have an OSF account

Can decide whether or not to include collaborators as "Bibliographic Contributors"



Utilize version control

OSF Storage:

- 5 GB for private projects
- 50 GB for public projects

Track all versions of files that utilize OSF-specific storage

Must upload files with the **same name** and within the **same folder** on OSF

Activity log tracks every change made to an OSF project



Connect to well-known tools

OSF syncs with many other tools that are used to find, store, and analyze data

Can import data from any of the tools shown

Changes made in those tools will be reflected on OSF



Share your work

Can share any type of research output

OSF provides the ability to assign digital object identifiers (DOIs) to projects

Can apply a license to projects to dictate terms of use

All projects are citable in any format

A pre-print server is available to publish research before peer review



OSF Demo



Case Study 1: My Research

Study: Analyze CIHR-funded publications to scope the landscape of data sharing practices.



Case Study 2: Software Project

Project: Develop software to make research data more discoverable for the purpose of widespread implementation. **Project Description and Marketing**

Code from GitHub

Documentation

Publications and Presentations



Pros & Cons of OSF

PROS

- A one-stop-shop for making your project open
- Intuitive, flexible, and easy to use
- Ability to apply DOIs and licenses to projects
- Easily manage collaborators and project components
- Version control and free storage capacity a big plus

CONS

- Requires adaptation from most research workflows
- Analytics are poor
- Working with add-ons make versioning unstable
- Discoverability of projects not as good as it could be



OSF is one of the only tools that enables open science practices at every stage of the research process

Useful as a sharing or project management tool

Ideal if you want to make research products open, control terms of use, and have your work cited

Before using OSF, seriously consider your research needs and workflows

Would the Open Science Framework suit your research needs?



Open Science Framework Guides: <u>https://help.osf.io/hc/en-us</u>

OSF 101: https://youtu.be/dLEIhJESIQA

Nosek BA. Improving my lab, my science with the open science framework. APS Observer. 2014 Feb 28;27(3).

Sullivan I, DeHaven A, Mellor D. Open and reproducible research on open science framework. Current Protocols Essential Laboratory Techniques. 2019 Jun;18(1):e32.

Tackett JL, Brandes CM, Reardon KW. Leveraging the Open Science Framework in clinical psychological assessment research. Psychological assessment. 2019 Dec;31(12):1386.

Questions? kevin.read@usask.ca