# Principles and Practices in Open Science, EAPL 2021

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#### 2021-08-26

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## Part I: Planning and Preregistration

## Repositories and Platforms

#### General

- Open Science Framework: https://osf.io/
- AsPredicted: https://aspredicted.org/

#### Specialized

- ClinicalTrials.gov: https://clinicaltrials.gov/
- PROSPERO: https://www.crd.york.ac.uk/prospero/

### Registration Guides and Templates

#### AsPredicted Example

https://aspredicted.org/nfj4s.pdf

#### Open Science Framework

Templates https://osf.io/zab38/wiki/home/

#### Guides

- Registration guides: https://help.osf.io/hc/en-us/categories/360001550953-Registrations
- Creating a registration: https://help.osf.io/hc/en-us/articles/360019738834-Create-a-Preregistration

## Part II: Archiving Materials and Data

## **FAIR Principles**

• https://www.go-fair.org/fair-principles/

## Licenses

- Creative Commons licenses: https://creativecommons.org/licenses/
- GNU General Public License: https://www.gnu.org/licenses/licenses.html
- GNU License Recommendations: https://www.gnu.org/licenses/license-recommendations.html
- GNU License List and Commentary: https://www.gnu.org/licenses/license-list.html

## Repositories, Platforms, and Organizations

- Open Science Framework: https://osf.io/
- figshare: https://figshare.com/
- Git
  - GitHub: https://github.com/
  - GitLab: https://about.gitlab.com/
- rOpenSci: https://ropensci.org/

#### **Data Sharing**

Ellis, S. E., & Leek, J. T. (2018). How to Share Data for Collaboration. The American Statistician, 72(1), 53-57. https://doi.org/10.1080/00031305.2017.1375987

Gilmore, R. O., Kennedy, J. L., & Adolph, K. E. (2018). Practical Solutions for Sharing Data and Materials From Psychological Research. Advances in Methods and Practices in Psychological Science, 1(1), 121–130. https://doi.org/10.1177/2515245917746500

#### Code Style

https://style.tidyverse.org/

## Part III: Stowing Down and Clearing Up: Preprints and Research Compendia

#### Preprint Servers

- PsyArXiv: https://psyarxiv.com/
- OSF Preprints: https://osf.io/preprints/

## Sherpa Romeo

https://v2.sherpa.ac.uk/romeo/

## Research Compendia

Marwick, B., Boettiger, C., & Mullen, L. (2018). Packaging Data Analytical Work Reproducibly Using R (and Friends). The American Statistician, 72(1), 80–88. https://doi.org/10.1080/00031305.2017.1375986

### Organization

- OSF Guides
  - File organization: https://help.osf.io/hc/en-us/articles/360019738994-Organizing-files
  - File naming: https://help.osf.io/hc/en-us/articles/360019931113-File-naming
- Data Carpentry: https://datacarpentry.org/
  - https://github.com/datacarpentry/rr-organization1

### Compendium Examples (Not Psychology, Unfortunately)

- http://www.biostat.jhsph.edu/~rpeng/reproducible/
- https://aem.asm.org/content/81/16/5486 & https://zenodo.org/record/17804#.X\_dXNBZwGUk

#### An Example Compendium (in progress): The CLIMR Project

- https://climr.org/
- https://osf.io/ra3dp/
- https://github.com/RabbitSnore/CLIMR