School of BES

Open Research: OSF

Susi Zajitschek

- Reproducibility and transparency → credible science

- Irreproducible findings: "reproducibility crisis"

- Open practices: promote collaboration, efficiency, public trust

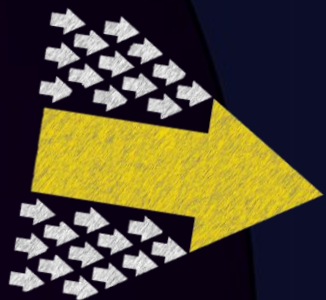- Funders: increasingly mandate openness

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Why Open Research?

Why Open Research?

Enhancing transparency

Reproduciblity

Reliability

Integrity

Steering Research in the right direction!

Open Research

Best Practice Guide

Open Research in BES

Unlock your research potential with our guide tailored for Biological and Environmental Sciences at Liverpool John Moores University.

Explore open access publishing, data sharing, reproducible workflows and public engagement. Enhance transparency, collaboration and impact.

Start your journey towards more open and impactful science today!

Made in collaboration with Dr Susanne Zajitschek, Maria Follett, Phebie Watson and Amie Longthorne

V1 03/25

LIVERPOOL JOHN MOORES UNIVERSITY

LIBRARY TEAM

Amie Longthorne

Maria Folett

Open Research at BES

https://www.ljmu.ac.uk/about-us/faculties/school-of-biological-and-environmental-sciences

https://www.ljmu.ac.uk/about-us/faculties/school-of-biological-and-environmental-sciences/open-research
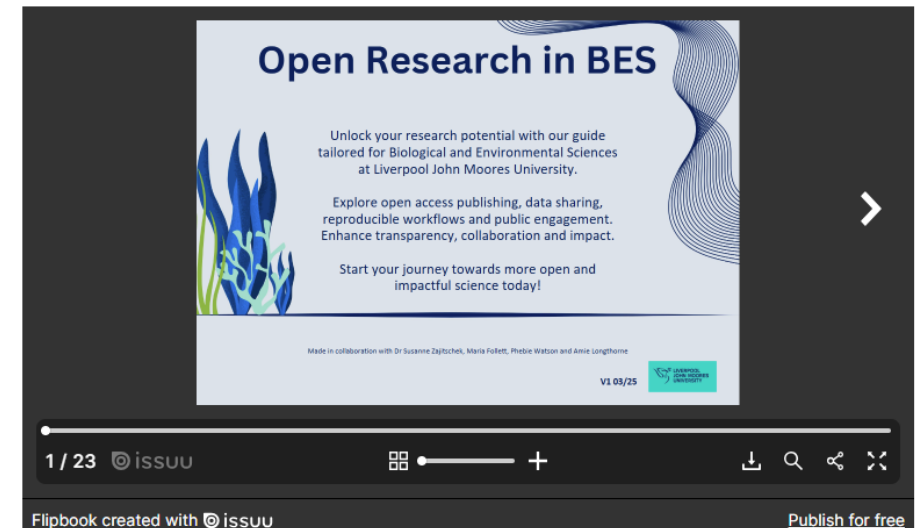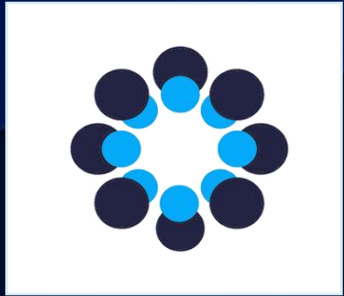
Collaboration

- Sharing data

- Sharing code

- Sharing drafts

- Sharing versions

OSF – Open Science Framework

Center for Open Science
- non-profit
- Free, open-source platform

Supports research lifecycle
- Planning to publication

Project Management
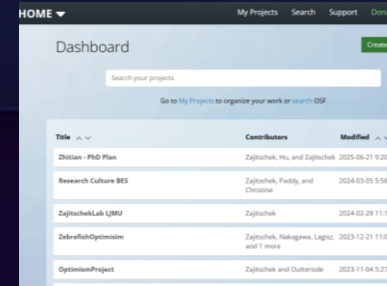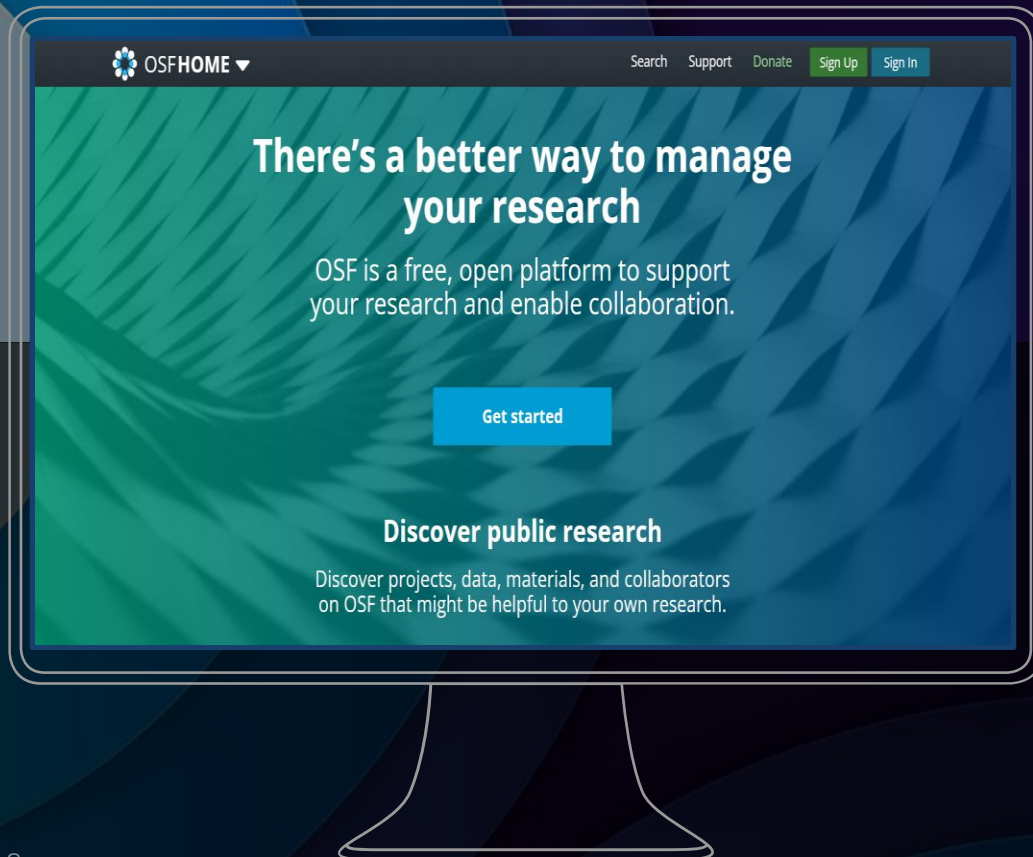- File organisation
- Sharing
- Version control

Combined funding sources
- Preservation fund: 50yrs + accessibility

OSF.io
Home screen

Key Features

- **Projects and components**
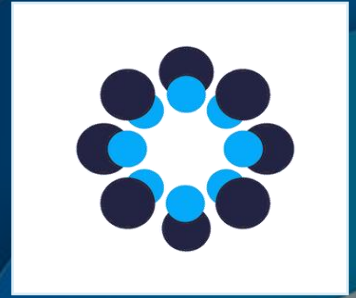- **File storage**
- **Version control**
- **Collaboration**

Preprints & Pre-registration

Study plan / methods:

- **Documented**
- **Pre-Reg: Peer-reviewed**
- **Decouples study design from outcome**

OSF in practise

Individual project

Manage Thesis

Analysis pipeline

Admin project

Lab/Group space

Centralise resources

Share protocols

Store shared files

Collaborative space

Open access: data, code, protocols

Link preprints, papers, supplements

Tour...

https://osf.io/dashboard

Wiki	Files	Contributors	Activity logs
Project overview	Uploads	Manage permissions	Automatic tracking
Documentation	Linked services		
Key information			

OSF and FAIR Principles

Findable	Accessible	Interoperable	Reusable
Projects and data indexed	Public sharing	Supports metadata	Wikis structured templates
DOIs available	Embargo options	Common file types	

Publications   Link preprints, published papers supplements

# Pre-registration and Preprint registries

Pre-registration on OSF

- What: Time-stamped record of study design

- Why: Improves credibility, reduces hindsight bias

- How: OSF pre-registration templates

  - AsPredicted, Prereg Challenge, Standard Pre-registration

- Options to embargo

OSF Registries

- Public, searchable repository of registered studies

- Domain-specific registries: PsyArXiv, BioArXiv, OSF Registries, etc.

- Permanent DOI links for citation

- Promotes visibility and credit for study design

Advantages / Limitations
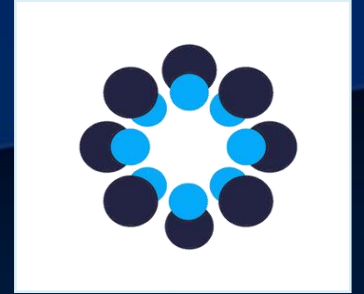
Facilitates reproducibility

Modular

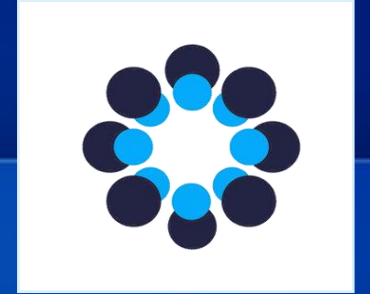Centralised

Requires getting used to

Single file limit: 5GB

Public projects: 50 GB each

Community support

Free of charge

Private projects: 5 GB max

No storage limit per user

Thank you!

Resources and Support

COS Help Center: https://help.osf.io

Example projects: Browse featured OSF projects

OSF YouTube tutorials and webinars

COS Ambassadors and community forums