

# What is the Open Science Framework?

Julie Vecchio

*Assistant Director*

*Hesburgh Libraries Center for Digital Scholarship*

cos.io | osf.io Ambassador, **Center for Open Science**



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Science.  
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# Open Science Framework

**Free, open-source** web app that **manages** research projects at all stages of the **research lifecycle** and connects the **tools researchers use**

Planning

Execution

Reporting

Archiving

Discovery



# Open Science Framework

## Open Science Framework

A scholarly commons to connect the entire research cycle



FREE AND OPEN SOURCE. START NOW.

osf.io





# RESEARCH

In partnership with the Center for Research Computing, Engineering & Science Computing, and the Hesburgh Libraries

All Projects > Filter displayed projects

Collections	Name ^ v	Contributors	Modified ^ v
<b>All Projects</b>	Publishers in the ESS team (PESST) - TAG B	Meyers, Ahern + 153	9 days ago
All Registrations	Role of Libraries in Retention of Female Faculty and Graduate Students	Meyers, Boehm	a month ago
Contributors	Container Strategies for Data and Software Preservation Workshop	Gesing, Michael Hildreth + 42	2 months ago
Natalie Meyers	Supporting Research Computing with Library Services	Meyers	2 months ago
Rick Johnson	Science Gateways	Meyers	3 months ago
Mark Suhovecky	External Link to daspos	Meyers, Brower + 4	3 months ago
Jody Peters	Data Management & R Graphics Resources	Peters	4 months ago
Tags	Pictures	Peters, Alex Perkins + 5	4 months ago
talk	Day 1: Random Variables, Data Distributions, & Disease	Peters, Vahsen + 1	4 months ago
PresQT1	Day 2: State Space Models & Ecosystem Measurements	Peters, Jones	4 months ago
software preservation	Day 3: Uncertainty and it's Application	Peters, McLachlan	4 months ago
umbrella	PresQT Data and Software Preservation Quality Tool Planning Project	Wang, Gesing + 3	5 months ago
	OSF and Fedora	Johnson, Choudhury + 4	5 months ago

[osf.io/institutions/nd](https://osf.io/institutions/nd)



# Open Science Framework

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Password:

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If you do not currently have an OSF account, this will create one. By creating an account you agree to our [Terms of Use](#) and that you have read our [Privacy Policy](#), including our information on [Cookie Use](#).

✓ -- select an institution --

- Boston University
- Brown University
- Duke University
- East Carolina University
- Ferris State University
- Florida State University
- James Madison University
- Johns Hopkins University
- New York University
- Oklahoma State University
- UCLA
- Universiteit Gent
- University of California Riverside
- University of California San Diego
- University of Cape Town
- University of Cincinnati
- University of Colorado Boulder
- University of Göttingen
- University of Notre Dame
- University of Southern California
- University of Virginia
- University of Washington

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[osf.io/institutions/nd](https://osf.io/institutions/nd)

**Planning**

Execution

Reporting

Archiving

Discovery

**Create new projects**

**Register a research plan**

# Dashboard

[Create new project](#)



Go to [My Projects](#) to organize your work or [search](#) the OSF

Title	Contributors	Modified
COS Ambassadors / <b>One pagers</b>	Esposito, Bowman, Nosek + 124	2017-03-22 10:41 AM
COS Ambassadors / <b>Media Files</b>	Zargar, Bowman, Nosek + 118	2017-03-22 10:41 AM
COS Ambassadors / <b>Slide Decks</b>	Bowman, Nosek, Sallans + 127	2017-03-22 10:41 AM
COS Ambassadors / <b>Ambassador Slides</b>	Bowman, Nosek, Sallans + 129	2017-03-22 10:41 AM
<b>COS Ambassadors</b>	Bowman, Nosek, Sallans + 124	2017-03-22 10:41 AM
Center for Open Science / <b>Presentations</b>	Bowman, 陈	2017-03-22 09:32 AM

### Create new project

Title

Affiliation [Select all](#) [Remove all](#)

- 
- ▶ More

Transparency and Openness Promotion (TOP) Guidelines / <b>Resources</b>	Mellor, Esposito, DeHaven + 1	2017-03-22 02:07 PM
COS Ambassadors / <b>One pagers</b>	Esposito, Bowman, Nosek + 124	2017-03-22 10:41 AM
COS Ambassadors / <b>Media Files</b>	Zargar, Bowman, Nosek + 118	2017-03-22 10:41 AM
COS Ambassadors / <b>Slide Decks</b>	Bowman, Nosek, Sallans + 127	2017-03-22 10:41 AM





Private   Make Public   0   +

# The effects of chocolate on graduate student happiness

Contributors: [Jolene Esposito](#)

Affiliated Institutions: [Center For Open Science](#)

Date created: 2017-06-09 12:06 PM | Last Updated: 2017-06-09 12:06 PM

Category: Project

Description: Add a brief description to your project

License: Add a license

Wiki

Add important information, links, or images here to describe your project.

Files

Click on a storage provider or drag and drop to upload

Citation osf.io/wt34a ▾

Components

Add components to organize your project.

Tags





Private Make Public 0

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Filter



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osf.io/wt34a ▾

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Make Public

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Citation osf.io/wt34a

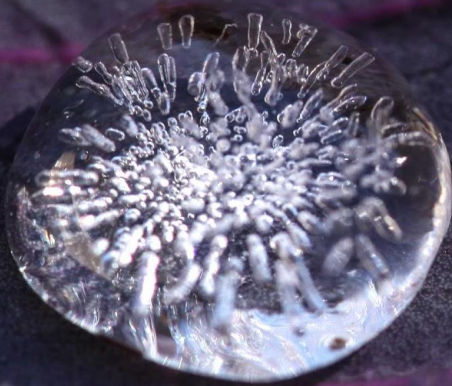
Components

Add components to organize your project.

Tags

# Registration

- Creates a **frozen, time-stamped version of the project**
- A registration can be made public immediately or embargoed for up to 4 years





Private

Make Public

0



# Influence of Gene Mutations on Fruit Fly Lifespan

Contributors: Sara Bowman, Tim Errington, **Jolene Esposito**, Courtney Soderberg, Alexander DeHaven, Rebecca Rosenblatt

Affiliated Institutions: Center For Open Science

Date created: 2015-09-03 03:15 PM | Last Updated: 2017-05-26 03:12 PM

Category: Project

Description:

NSF-funded work investigating Drosophila lifespan as a function of genetic mutations.

License: Add a license

## Wiki

In this work, we investigate the influence various gene mutations have on Drosophila lifespan.

Mutations investigated manifest visibly as:

Characteristics	Types
Altered Wing Structures	Short, long, none
Altered Body Color	brown, gold, green
Altered Eye Color	brown, red, hazel

## Citation

osf.io/hnwxx ▾

## Components

Add Component

Link Projects

### Literature Review ▾

Bowman, Errington, Esposito & 2 more  
39 contributions

### Data ▾



## Register

Registration creates a frozen version of the project that can never be edited or deleted but can be withdrawn. Your original project remains editable but will now have the registration linked to it. Things to know about registration:

- Ensure your project is in the state you wish to freeze before registering.
- Consider turning links into forks.
- Registrations can have embargo periods for up to four years. If you choose an embargo period, the registration will automatically become public when the embargo expires.
- Withdrawing a registration removes the contents of the registrations but will leave behind a log showing when the registration was created and withdrawn.

Continue your registration by selecting a registration form:

- Prereg Challenge ⓘ
- Open-Ended Registration ⓘ
- AsPredicted Preregistration ⓘ
- OSF-Standard Pre-Data Collection Registration ⓘ
- Replication Recipe (Brandt et al., 2013): Pre-Registration ⓘ
- Replication Recipe (Brandt et al., 2013): Post-Completion ⓘ
- Pre-Registration in Social Psychology (van 't Veer & Giner-Sorolla, 2016): Pre-Registration ⓘ
- Election Research Preacceptance Competition ⓘ

Cancel

Create draft

Planning

**Execution**

Reporting

Archiving

Discovery

## Managing your research workflow

- Collaboration
- Version Control
- Hub for Services
- Project Management



Private

Make Public

0



# Influence of Gene Mutations on Fruit Fly Lifespan

Contributors: Sara Bowman, Tim Errington, **Jolene Esposito**, Courtney Soderberg, Alexander DeHaven, Rebecca Rosenblatt

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Add Component

Link Projects

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Make Public

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Contributors: Sara Bowman, Tim Errington, **Jolene Esposito**, Courtney Soderberg, Alexander DeHaven, Rebecca Rosenblatt

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## Components

Add Component

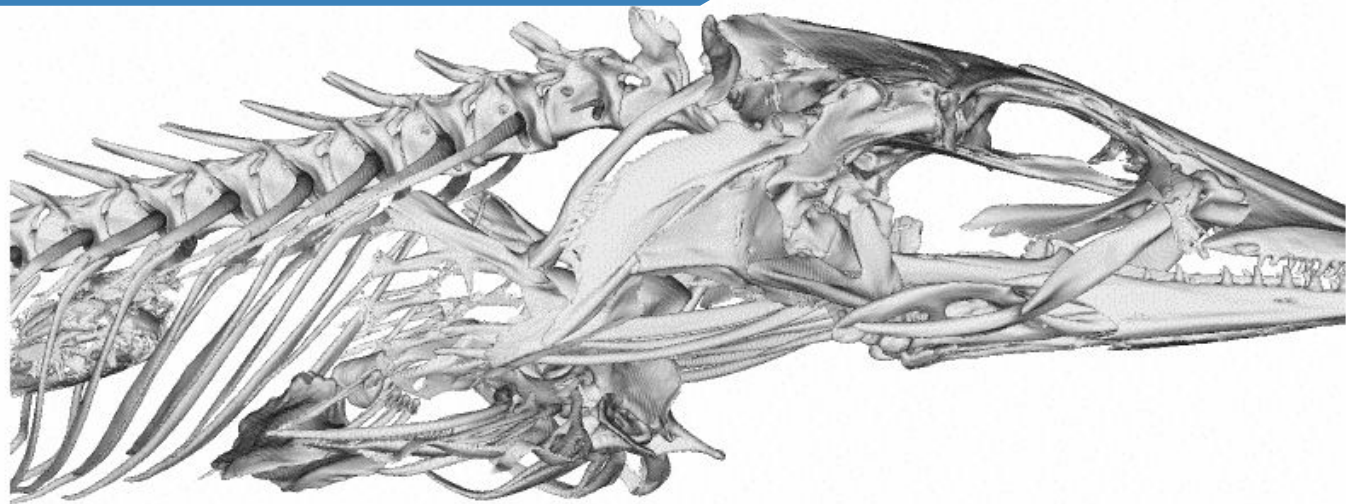
Link Projects

Literature Review

Bowman, Errington, Esposito & 2 more  
39 contributions

Data

# Put data, materials, and code on the OSF

[Share](#)[Download](#)[View](#)[Revisions](#)[Lepadogaster.stl](#)[+ low res slice data](#)[oblique.jpg](#)[+ slice data](#)[standard headshot.jpg](#)[ventral.jpg](#)





Open Science



Presentations

# Automatic File Versioning

Bowman.ACS.2015.08.17.pptx

Delete

Filter

Component: Presentations

OSF Storage

2015.10.GHC.general.shar...

20150107\_cendi\_spies.pptx

20160128\_uva\_dev\_psych...

20160205\_rpi\_rcos\_spies...

Bowman.ACS.2015.08.17....

Bowman.LJAF.2015.04.22...

## Revisions

Version ID	Date	User	Download	MD5
4	2015-08-17 01:05 PM	Sara Bowman	14	66518
3	2015-08-17 12:49 PM	Sara Bowman	0	5341f
2	2015-08-17 12:32 PM	Sara Bowman	0	d6d9e
1	2015-08-17 12:25 PM	Sara Bowman	0	122fb





Open Science



Presentations

# Automatic File Versioning

Bowman.ACS.2015.08.17.pptx

Delete

Filter

Component: Presentations

OSF Storage

- 2015.10.GHC.general.shar...
- 20150107\_cendi\_spies.pptx
- 20160128\_uva\_dev\_psych...
- 20160205\_rpi\_rcos\_spies...
- Bowman.ACS.2015.08.17...**
- Bowman.LJAF.2015.04.22...

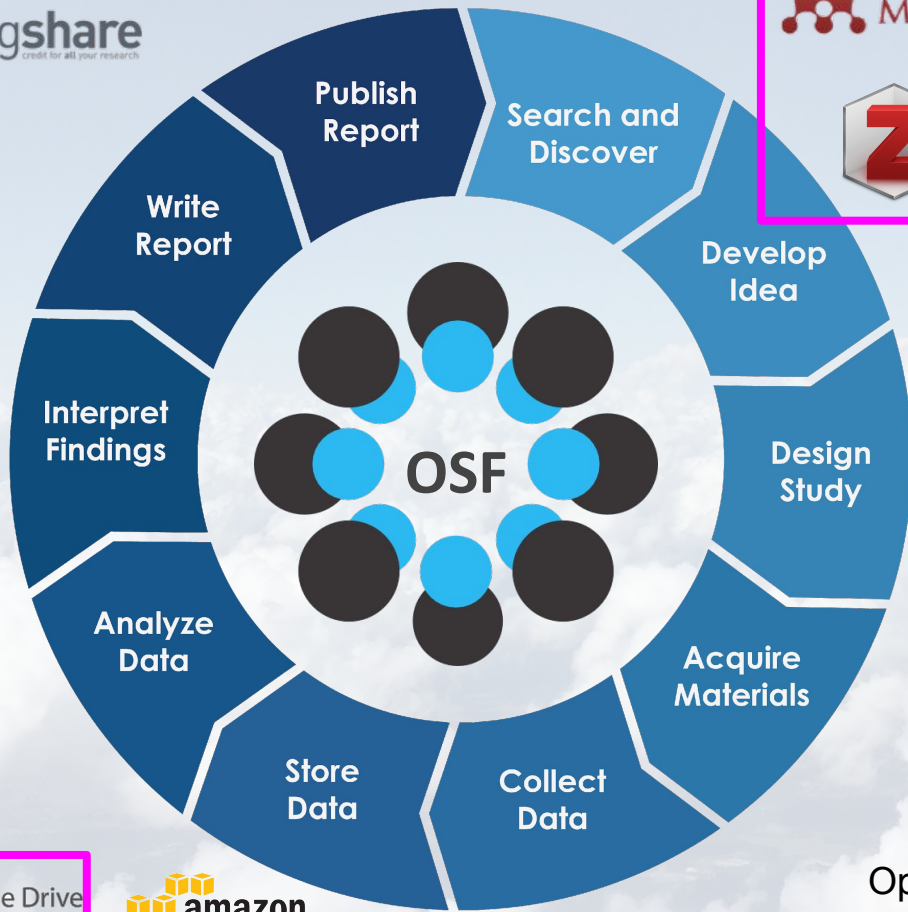
Revisions						
Version ID	Date	User	Download		MD5	
4	2015-08-17 01:05 PM	Sara Bowman	14		66518	
3	2015-08-17 12:49 PM	Sara Bowman	0		5341f	
2	2015-08-17 12:32 PM	Sara Bowman	0		d6d9e	
1	2015-08-17 12:25 PM	Sara Bowman	0		122fb	



recent and previous versions of file

An aerial photograph of a landscape, likely a valley or plain, viewed from a high altitude. The ground is a mix of green and brown, suggesting fields and forests. The sky is a deep blue, filled with numerous white, fluffy clouds that partially obscure the view of the ground below. A semi-transparent blue rectangular box is overlaid on the upper portion of the image, containing white text.

Connects Services  
Researchers Use



OpenSesame



NeuroVault



OJS

Open Journal Systems



The Dataverse Project

VIVO

connect • share • discover



zenodo



OpenSesame




GitLab



Coming Soon!



A scanning electron micrograph (SEM) showing a detailed view of a biological structure. The structure has a textured, porous surface with a distinct, more organized top section. A blue rectangular box with white text is overlaid on the center of the image.

The OSF can serve as a lab notebook and living archive for any research project.

Planning

Execution

**Reporting**

Archiving

Discovery

## Review and Publish

- Use view-only links to share your research with others
- unique, persistent URLs can be used in citations
- attach A DOI to your public OSF project



# Making a Project Public

Fine-grained privacy controls allow you to share what you want, when you want, with whom you want, and ensure that private content stays private.



<https://osf.io/wx7ck/>

Citation

APA

Bowman  
... Muilen  
osf.io/bs2

MLA

Bowman  
2017. We

Chicago

Bowman  
Lakens, H  
Science F

# Persistent Citable Identifiers

nan, H.,

Mar.

niel  
en



https://osf.io/wx7ck/

wx7ck/



persistent identifier

## Citation

osf.io/bs23x ^

### APA

Bowman, S. D., Nosek, B. A., Sallans, A., Christensen, G., Lakens, D., Ijzerman, H., ... Muilenburg, J. (2017, March 3). COS Ambassadors. Retrieved from

osf.io/bs23x



used in a citation

### MLA

Bowman, Sara D et al. "COS Ambassadors." Open Science Framework, 3 Mar. 2017. Web.

### Chicago

Bowman, Sara D, Brian A Nosek, Andrew Sallans, Garret Christensen, Daniel Lakens, Hans Ijzerman, Jon E Grahe, et al. 2017. "COS Ambassadors." Open Science Framework. March 3. osf.io/bs23x.

# Commenting

- OSF allows commenting on projects and their components by collaborators and the public.
- Can be used to discuss the research, manage collaborators, or even as a form of peer review.



# Demonstration Project

Contributors: [Katherine Elizabeth Cain](#), [Lyndsy Simon](#), [Erin Braswell](#)

Date Created: 2014-10-08 09:56 AM | Last Updated: 2015-01-13 04:15 PM

Description: For explaining how to use the OSF :D

Overview

Files

Wiki

Statistics

Registrations

Forks

## Wiki

**Keep your contributors up to date with wiki updates!** Meeting at 8 PM!

## Files

Search files

Search the OSF



Make Private

## Demonstration Project Discussion

Add a comment



Katherine Elizabeth Cain

a few seconds ago

I'm getting so much feedback!



Katherine Elizabeth Cain

a few seconds ago

This is pretty neat!



Katherine Elizabeth Cain

a few seconds ago

Hello! Let's have a conversation about this project



Comment deleted

Citation: [osf.io/9](https://osf.io/9)

## Components





Planning

Execution

Reporting

**Archiving**

Discovery

- The OSF **is** an archive and repository
- The OSF **connects** other repositories

**Example:** a researcher uses Dropbox for her research materials, GitHub for her code, and Amazon s3 for storing her data. Upon completion of her project, she pushes her data to Dataverse for archiving.



curate.nd.edu

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Dissertations



Articles &  
Publications



Datasets &  
Related Materials



Materials by  
Department



Total

2679

Projects

1103

Components

697

Users

472

Registrations

407

Improve your search:

poster

spsp2014

aps2014

talk

IAT

Perspectives

replication

Replication

CREP

PoPS

## Self-Compassion and Positive Mood as Predictors of Meaning in Life: The Moderating Effect of Age

**Contributors:** Leigh Ann Vaughn**Tags:** spsp2014 poster

Jump

The Contributor

Contributor

**Tags:** spsp2014 poster**Jump to:** Wiki - Files

# Search and discover research on the OSF

## The Effect of Action, Inaction, and Counterfactual Thinking on Derived Meaning

**Description:** I examined whether the type of event (action vs. inaction) would moderate the effect found by Kray et al. (2010) where counterfactual reflection of a life turning point derived more meaning than direct reflection of a turning point. Ultimately, I found a main effect of type of event on derived meaning and regret, but was unable to replicate the effect of type of reflection on derived

Badges to Acknowledge Open Practices

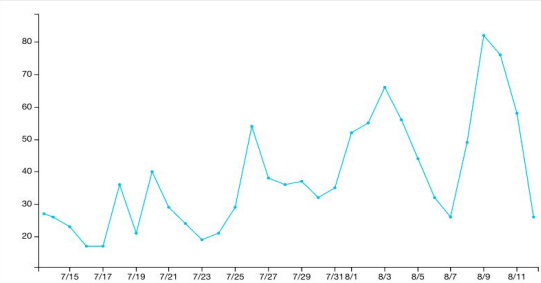
Name ^ v

Project: Badges to Acknowledge Open Practices

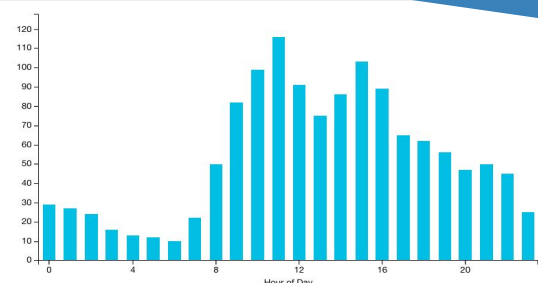
Showing

# See the Impact

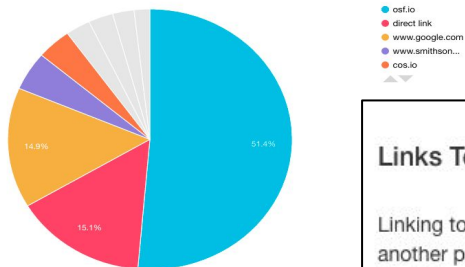
Unique visits



Time of day of visits



Top referrers



Popular pages



38.0 kB	114
46.6 kB	130
47.8 kB	173
19.0 kB	11
3.1 kB	94
676.0 kB	57
3.0 kB	62
672.4 kB	54
1.4 kB	74
598.7 kB	55

File downloads

## Links To This Project

1

Linking to this project will reference it in another project, without creating a copy. The link will always point to the most up-to-date version.

View Links

## Templated From

4

This option will create a new project, using this project as a template. The new project will be structured in the same way, but contain no data.

Copy Project Structure

## Forks

17

Fork this project if you plan to build upon it in your own work. The new project will be an exact duplicate of this project's current state, with you as the only contributor.

Fork this Project



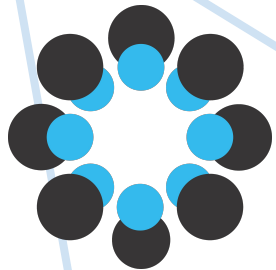
**contact@cos.io**



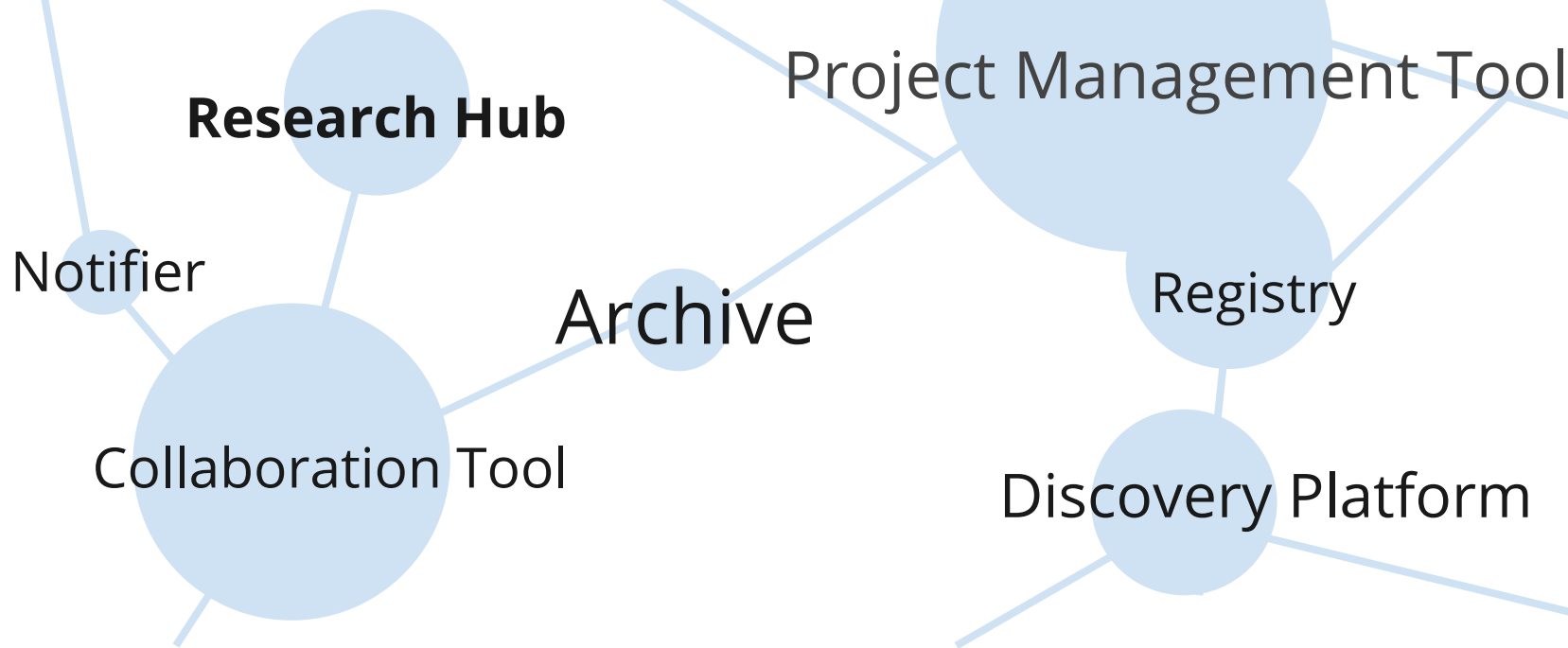
**Open Source**

<https://github.com/CenterForOpenScience/osf.io>



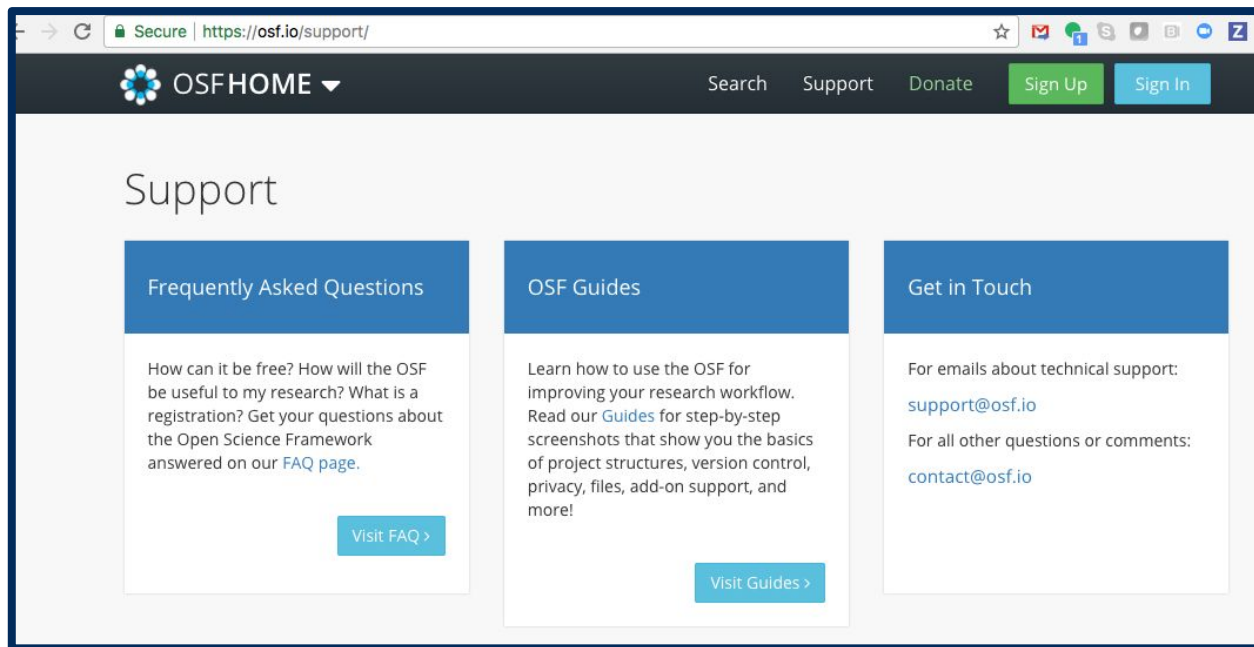


# What is the OSF?



# Get Help

**osf.io/support**  
**contact@cos.io**

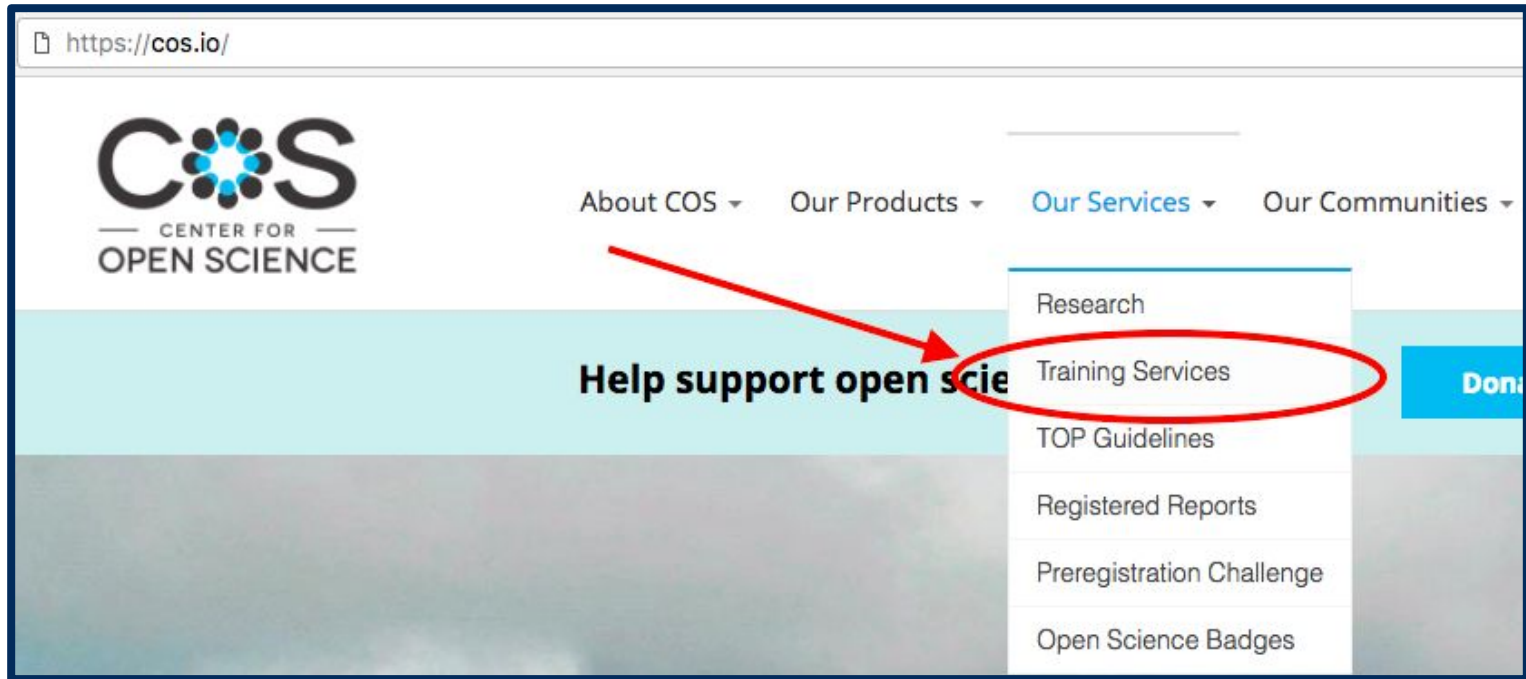


The screenshot shows a web browser window displaying the OSF support page. The browser's address bar shows the URL <https://osf.io/support/>. The page header includes the OSFHOME logo, a search bar, and navigation links for Support, Donate, Sign Up, and Sign In. The main content area is titled "Support" and features three columns of information:

- Frequently Asked Questions:** A section with a blue header. The text asks, "How can it be free? How will the OSF be useful to my research? What is a registration? Get your questions about the Open Science Framework answered on our [FAQ page](#)." Below the text is a blue button labeled "Visit FAQ >".
- OSF Guides:** A section with a blue header. The text says, "Learn how to use the OSF for improving your research workflow. Read our [Guides](#) for step-by-step screenshots that show you the basics of project structures, version control, privacy, files, add-on support, and more!" Below the text is a blue button labeled "Visit Guides >".
- Get in Touch:** A section with a blue header. The text provides contact information: "For emails about technical support: [support@osf.io](mailto:support@osf.io)" and "For all other questions or comments: [contact@osf.io](mailto:contact@osf.io)".

# Get Training

[cos.io/our-services/training-services](https://cos.io/our-services/training-services)



The screenshot shows the COS (Center for Open Science) website. The URL in the browser is <https://cos.io/>. The COS logo is visible on the left, with the text "CENTER FOR OPEN SCIENCE" below it. The navigation menu includes "About COS", "Our Products", "Our Services", and "Our Communities". The "Our Services" dropdown menu is open, showing a list of options: "Research", "Training Services", "TOP Guidelines", "Registered Reports", "Preregistration Challenge", and "Open Science Badges". A red arrow points to the "Training Services" option, which is also circled in red. A blue "Donate" button is partially visible on the right side of the page.

# Get Training

Secure | <https://cos.io/our-services/training-services/>

Training   Statistical Consulting   Reproducible Research Workshops

We offer a series of free, regularly scheduled workshops on topics related to open, reproducible research. See our calendar below and schedule.

## Webinars and Workshops

Today Tuesday, October 31

### Tuesday, October 31

9:00am Johns Hopkins University: Workshop on Reproducible Research Practices and the Open Science Framework

### Wednesday, November 1

8:45am University of Maryland: Practical Steps for Increasing Openness and Reproducibility: An Introduction to the

### Thursday, November 2

11:00am OSF 101 at Notre Dame University

### Monday, November 6

9:00am Northwestern: Practical Steps for Increasing Openness and Reproducibility: An Introduction to the

1:00pm Northwestern Afternoon Session: Practical Steps for Increasing Openness and Reproducibility: An Introduction to the

### Tuesday, November 7

9:00am Northwestern: Practical Steps for Increasing Openness and Reproducibility: An Introduction to the

Showing events until 6/30. [Look for more](#)

Events shown in time zone: Eastern Time

We also archive our training sessions as video in case you can't make the sessions when they occur.

Watch Videos



- Workshops (live/webinar)
- YouTube channel

# Get Connected

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HOME

RESEARCH

SERVICES

LIBRARIES

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LOGIN

HOURS

## Research Support

- › **Databases A-Z**
- › **Subjects A-Z**
- › **Librarians by Subject and Specialty**
- › **Research Guides**
- › **Copyright and Fair Use**
- › **Data Management**
- › **Center for Digital Scholarship**
- › **Pot of Gold**

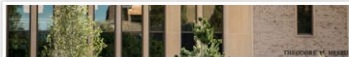
## Unique Collections

- › **Rare Books & Special Collections**
- › **University Archives**
- › **Medieval Institute Library**
- › **Library Exhibits**
- › **Digital Exhibits and Collections**
- › **CurateND**

## Featured Resources

- › **Academic Search Premier**
- › **Google Scholar**
- › **JSTOR**
- › **Web of Science**
- › **WorldCat.org**

**MORE RESEARCH**



Chat with us



# Get Connected

The screenshot shows a web browser at the URL `libguides.library.nd.edu/datamanagement`. The page is titled "UNIVERSITY of NOTRE DAME HESBURGH LIBRARIES" and is part of a breadcrumb trail: "Hesburgh Libraries > Guides > Managing Your Research Data > Overview".

## Managing Your Research Data

**Overview**

- What is Research Data?
- Why is Research Data Management Important?
- Data Management Services at Notre Dame
- Workshops

**Identify Your Needs**

**Create a Plan**

**Documentation and Metadata**

**Archiving and Sharing**

**How to Make Your Data Citable**

**Ethics and Intellectual Property**

**Public Access Policies**

### What is Research Data?

Broadly, research data is information collected, observed, or created in support of the production of original research. More specifically, research data:

- ...is defined differently in different domains
  - National Endowment for the Humanities
  - National Institutes of Health
  - National Science Foundation
- ...takes many formats, including, but not limited to
  - Audio/video files
  - Lab/field notebooks
  - Models/algorithms
  - Databases/datasets
  - Text files

### Why is Research Data Management Important?

The Hesburgh Libraries strives to connect researchers to the resources they need to advance their scholarly pursuits. Please review this guide for more information on how to support your research data throughout its lifecycle!

**Good research data management practices are foundational to responsible scholarly inquiry.**

Whatever their individual areas of expertise, all faculty contribute to and benefit from Notre Dame's growing research enterprise, which is intended to assist their efforts in connecting our most advanced scholarly pursuits to the learning experiences of our students.

— *A Legacy Expanded: A Strategic Plan for Notre Dame*

**Good data management planning and practice:**

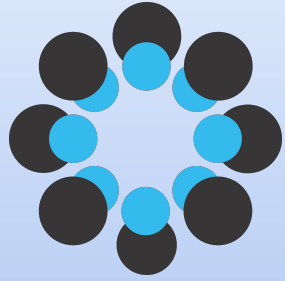
- ensures the integrity of your data

**Need help? Ask us!**

CENTER for DIGITAL SCHOLARSHIP  
where technology transforms the pursuit of knowledge

Data Management Consulting Team

Email



# Questions?

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