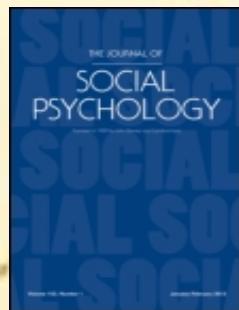


# Crisis Schmeisis: Open Science Framework Introduction Benefits Personal Workflow

Jon Grahe  
Presented at APS, May, 2017



# Open Science Framework— Host your Meta-science Project

- The OSF is a open-sourced computer software platform written and managed by the Center for Open Science (<https://cos.io>)
- An OSF page is like an electronic file cabinet.
  - With an interactive cover page;
  - unlimited files and folders;
  - That can be shared easily with some, all, or none

# Open Science Framework Features

- Internet page for scholarship (WIKI screen)
- Components
- Sharing with Contributors
- Sharing with Public
- File and Version Control
- Connecting with add-ons (e.g. Dropbox)
- Enabling Comments from contributors/public

# Center for Open Science OSF Curriculum

- <https://cos.io/our-services/training-services/cos-training-tutorials/>
- Center for Open Science OSF Curriculum
  - Introduction
    - Reproducibility, OSF and Reproducibility
  - Project setup
    - Creating, Contributors, Wiki, Components, Add Ons
  - Documentation
    - Registration, File and Version Control
  - Sharing
    - Contributors & Public Privacy,
    - Increasing Discoverability with tags
  - Conclusion
    - Take-aways, How to get more information

# Other Resources

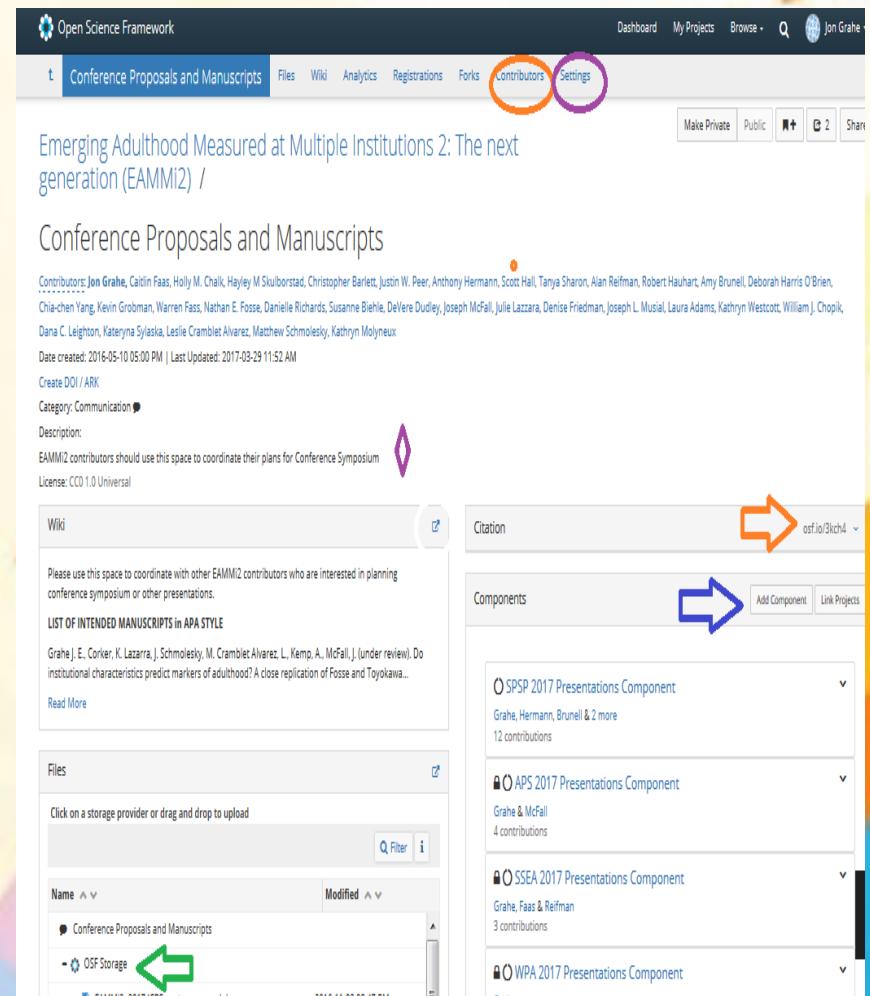
- Collaborative Replications and Education Project
- [CREP Instructions and Workflow Procedures](#)
  - Build a basic project for students.
- The CREP Step-by-Step provides instructions on how to build a project (  
<https://osf.io/srh4k/>)
- This slide show (<https://osf.io/f5ses>) is located on my Psyc481: Reproducibility in Psychological Sciences course page

# Exploratory and Confirmatory Meta-Science

The screenshot shows the Open Science Framework (OSF) interface for the 'Emerging Adulthood Measured at Multiple Institutions 2: The next generation (EAMMi2)' project. The top navigation bar includes links for 'Open Science Framework', 'Logout', 'My Projects', 'Browse', and 'Join OSF'. The main page title is 'Emerging Adulthood Measured at Multiple Institutions 2: The next generation (EAMMi2)'. Below the title, there is a list of contributors, a date created (2013-09-03 01:09 PM), and a last updated date (2016-12-13 10:47 AM). The page also includes a 'Create DOI / ARK' button, a 'Category Project' dropdown, a 'Description' section (which states that EAMMi2 is a large-scale collaboration project), and a 'License CC-BY Universal' section. The left sidebar contains sections for 'Wiki' (with a note about joining components), 'Files' (with a file tree showing documents like 'EAMMi2 Development and Recruitment Plan.pdf'), and 'Components' (listing various components such as 'Materials', 'Samples and Procedure', 'submitted proposals for scales', 'Instructions to Contributors', 'Project Plan and Current Status', 'Findings and Publications', 'IRB Application and Approval', 'a priori hypotheses', and 'Conference Proposals and Manuscripts'). The right sidebar features a large, abstract graphic composed of overlapping colored bands (yellow, orange, pink, blue) forming a diagonal pattern.

# Put Resources on OSF

- **Blue Box top left** – Name project better than “CAPSTONE499 project”
- **Purple Diamond** – add a short description
- **Orange circle** – Add contributors here
- **Purple circle** – use this to configure settings
- **Yellow Circle** – will expand the Wiki so that you can edit it.
- **Orange arrow middle** – click here for your APA style citation
- **Green Arrow bottom** – you can drag and drop files
- **Blue arrow**– make a new component



# Provide Instructions using Wiki

- Red Rectangle – Editing Mode
- Yellow Rectangle – Editing Tools
- Blue Rectangle – Reader View
- Purple Rectangle – Editing Space

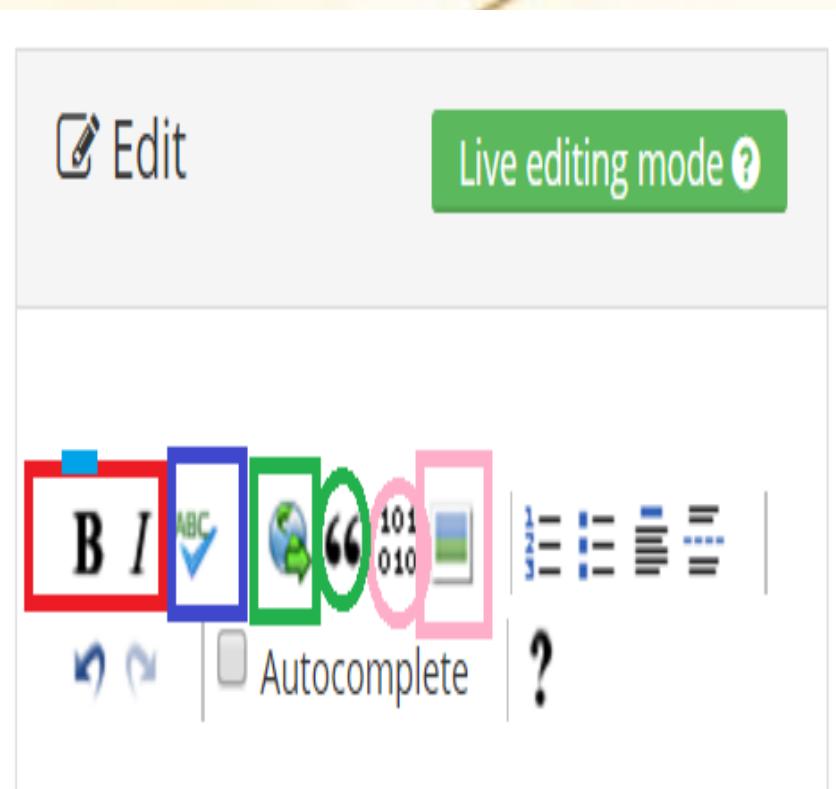
The screenshot shows the Open Science Framework (OSF) interface. At the top, there's a dark header bar with the OSF logo, a search bar, and user information. Below the header, a navigation bar includes links for Dashboard, My Projects, Browse, and Jon Grahe. The main content area shows a wiki page titled "APS 2017 Presentations Component". The page has tabs for Files, Wiki (which is selected), Analytics, Registrations, Forks, Contributors, and Settings. A "Toggle view" button allows switching between "View" and "Edit". In "View" mode (left), the content consists of two paragraphs: "I will upload our poster here for easy sharing later. For now, please visit the [EAMM12 APS Teaching Poster](#) google.doc to help author it." and "I can't wait to convert our poster to a series of activities for how to learn statistics and methods using R. That is my top sabbatical priority.". In "Edit" mode (right), the content is displayed in a rich text editor with a toolbar at the top. The text is numbered (1, 2, 3, 4, 5, 6) and includes a link [1] to a Google Doc. A red box highlights the "Live editing mode" button in the toolbar.

# Make the Wiki informative and connected

## DESCRIPTION

- Red Square—bold/italic
- Blue Square—spell check
- Green Square--hyperlink
- Green Circle—block quote
- Pink Circle—code data
- Pink Rectangle—add picture
- Beyond
  - Numbered Lists
  - Bulleted Lists
  - Heading
  - Horizontal Rule

## EDITING TOOLS MENU



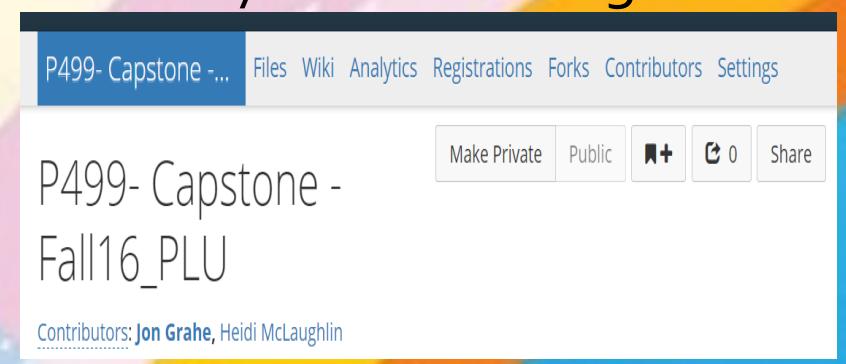
# Sharing

## WITH COLLABORATORS

- Add collaborators to share information, workload, and credit.
- Search for OSF members,
  - Add non-OSF members anyway
- Add with varying permissions
- Includes view-only links for projects under review

## WITH PUBLIC

- Use the Public Button
  - Make public when ready. Anyone with link can access.
  - It can be made private again, but once public there is no guarantee
- Add Keywords and tags



# Adding Contributors

- Orange Rectangle – find contributors, new window
- Green Rectangle – admins can add or delete, others can read and/or write
- Blue Rectangle – determines whether someone is added in references/listed as contributor
- Pink Rectangle – make view only links for manuscripts under review

Name	Permissions	Bibliographic Contributor
Jon Grahe	Administrator	0
Joseph McFall	Read + Write	0
Leslie Cramblet Alvarez	Read + Write	0
Holly M. Chalk	Read + Write	0
Scott Hall	Read + Write	0
Matthew Schmolsky	Read + Write	0

Contributors [+Add](#)  
Drag and drop contributors to change listing order.

View-only Links [+Add](#)  
Create a link to share this project so those who have the link can view—but not edit—the project.

# OSF provides help finding contributors

The screenshot shows the OSF interface with a modal window titled "Add Contributors". A search bar contains the text "faas". Below it, a section titled "Results" shows a single result: "Caitlin Faas" with a green plus icon and the note "48 projects in common". Below this, a message says "Add faas as an unregistered contributor." To the right, under the heading "Adding", there are three rows of contributor information:

Contributor	Role	Permissions	Action
Scott Hall	Read + Write	<input checked="" type="checkbox"/>	Remove
Matthew Schmolesky	Read + Write	<input checked="" type="checkbox"/>	Remove

At the bottom left, there's a "View-only Links" section with a "+ Add" button. A note at the bottom right says "Create a link to share this project so those who have the link can view—but not edit—the project."

# File and Version Control

## TYPES OF CONTROL

- Updating Wiki's
  - Edits to the wiki are tracked by the OSF. Can revert to earlier version as administrator
- Updating Files
  - OSF can track uploads of the same file as multiple versions (see COS curriculum)
    - With google drive

## REGISTRATION

- Use registration to date stamp an OSF project.
- Cannot be revoked when finalized

### 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

# Many Options

Open Science Framework

Dashboard My Projects Browse  Jon Gr

Emerging A

Registrations

Emerging generation

Grahe, Faas, 58 contributions

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Replication Recipe (Brandt et al., 2013): Post-Completion i

Pre-Registration in Social Psychology (van 't Veer & Giner-Sorolla, 2016): Pre-Registration i

Election Research Preacceptance Competition i

# Preregistration Challenge Template

## ■ Study Information

- Title
- Authorship
- Research Questions
- Hypotheses

## ■ Sampling Plan

- Existing data
- Explanation of existing data
- Data collection procedures.
- Sample size
- Sample size rationale
- Stopping rule

## ■ Variables

- Manipulated variables
- Measured variables
- Indices

## ■ Design Plan

- Study type.
- Blinding.
- Study design.
- Randomization.

## ■ Analysis Plan

- Statistical models
- Transformations
- Follow-up analyses
- Inference criteria
- Data exclusion
- Missing data
- Exploratory analysis (optional)

## ■ Script (Optional)

- Analysis scripts (Optional)

## ■ Other

# Connecting with add-ons

FOR EACH COMPONENT UNDER PARENT PROJECT.

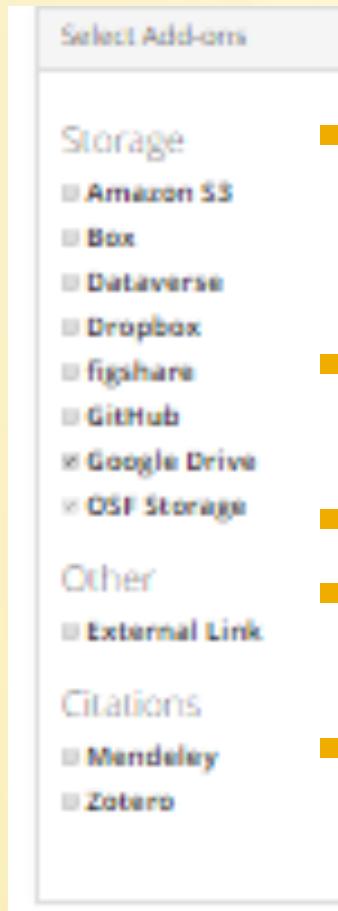
- 1<sup>st</sup> Block – basic info
- 2<sup>nd</sup> Block – select add-ons
- 3<sup>rd</sup> Block – config. add-ons
- 4<sup>th</sup> Block – enable Wiki
- 5<sup>th</sup> Block – commenting
  - Either contributors or all users
- 6<sup>th</sup> Block – Project Affiliation/Branding

The screenshot shows the OSF Settings interface for a project titled "Faculty Instructors Only". The main navigation bar includes Faculty Instructors Only, Files, Wiki, Analytics, Registrations, Forks, Contributors, and Settings. The Settings tab is active. The main content area is divided into several sections:

- Component**:
  - Select Add-ons
  - Configure Add-ons
  - Wiki
  - Commenting
  - Project Affiliation / Branding
  - Email Notifications
- Component**:
  - Category: Communication (for descriptive purposes)
  - Title: Faculty Instructors Only
  - Description: Optional
  - Save changes** button
  - A note: A project cannot be deleted if it has any components within it. To delete a parent project, you must first delete all child components by visiting their settings pages.
  - Delete component** button
- Select Add-ons**:
  - Storage
    - Amazon S3
    - Box
    - DataVerse
    - Dropbox
    - figshare
    - Github
    - Google Drive
    - OSF Storage
  - Other
    - External Link
  - Citations
    - Mendeley
    - Zotero
- Configure Add-ons**:
  - Google Drive authorized by Jan Grahe
  - Current Folder: PLU Psy499 Instructor Information
  - Change** button
  - Disconnected Account
- Wiki**:
  - Enable the wiki in Faculty Instructors Only.
  - To allow all OSF users to edit the wiki, Faculty Instructors Only must be public and the wiki enabled.
- Commenting**:
  - Only contributors can post comments
  - When the component is public, any OSF user can post comments
  - Save** button
- Project Affiliation / Branding**:
  - Projects can be affiliated with institutions that have created OSF for Institutions accounts. This allows:
    - institutional logos to be displayed on public projects
    - public projects to be discoverable on specific institutional landing pages
    - single sign-on to the OSF with institutional credentials

# Add-ons Explored

## USE WHAT YOU KNOW



## HERE'S WHAT I KNOW

- Dropbox – anything that is added to the dropbox folder is added to the OSF page (and reverse) and all computers attached to that dropbox
- Google Drive – easy connect to google.docs. Like Dropbox in Google
- OSF Storage—Drag and drop from hard-drive to OSF
- External Link—Embed hyperlinks into the Wiki for easy connection to important resources
- Mendeley/Zotero – These track citations as an alternative to Endnote

# Select only one folder, not all of drop box or google drive

Open Science Framework

APS 2017 Presentations Component

Files Wiki Analytics Registrations Forks Contributors Settings

Component

Select Add-ons

Configure Add-ons

Wiki

Commenting

Project Affiliation / Branding

Email Notifications

Configure Add-ons

Dropbox authorized by Jon Grahe

Current Folder: /eammi\_2/Conference Submissions/other proposals

Disconnect Account

Change

Folders

- + CUR Psychology or General
- EAMMI\_2
  - + administration
  - + background literature
  - Conference Submissions
    - + ICPS proposal
    - + other proposals
    - + SPS proposal
  - + EAMMI2 data set

Select

Successfully linked "/eammi\_2/Conference Submissions/other proposals". Go to the Files page to view your content.

Wiki

Enable the wiki in APS 2017 Presentations Component.

To allow all OSF users to edit the wiki, **APS 2017 Presentations Component** must be public and the wiki enabled.

Commenting

Only contributors can post comments

When the component is public, any OSF user can post comments

Save

Project Affiliation / Branding

Projects can be affiliated with institutions that have created OSF for Institutions accounts. This allows:

- \* institutional logos to be displayed on public projects
- \* public projects to be discoverable on specific institutional landing pages
- \* single sign-on to the OSF with institutional credentials
- \* FAQ

# Commenting Explored

## PEERS OR PROFESSORS

- Comments are links to a specific page, not all pages
- Must have an OSF account to make posts (comments or public)
- Activity is date/time stamped
- Configure settings to receive notification of comments

The screenshot shows the OSF storage interface for a project titled "Week 3: Red Wolves".

- Wiki:** Displays two text entries.
  - "My goal this week was to give the animal more muscle definition using more accurate anatomy, and to give the wolf a more defined look by adding texture to the fur and shape to the body."
  - "I was originally going to draw the polar bears, but they were nowhere to be found in their enclosure, so I was going to draw the arctic fox, but it was raining so I went back to the red wolf exhibit because it was..."
- Files:** Shows a list of files in the "OSF Storage" folder.

Name	Modified
Red Wolf Drawing.jpg	2016-02-23 02:22 AM
Red Wolf Exhibit.jpg	2016-02-23 02:21 AM
- Recent Activity:** Lists comments and file renames from users Alexandra Grahe and Spencer Ebbinga.
  - Spencer Ebbinga (6 months ago): For example, Rembrandt Drypoint sketch <https://www.pinterest.com/pin/539728336569102989/>
  - Alexandra Grahe (6 months ago): renamed IMG.jpg in OSF Storage in Week 3: Red Wolves
  - Spencer Ebbinga (6 months ago): Have you looked at Robert Bateman's work? Try this link ... [http://www.beckettfinart.com/dynamic/images/detail/Robert\\_Bateman\\_Forest\\_Floor\\_Chipmunk\\_Study\\_1023\\_39.jpg](http://www.beckettfinart.com/dynamic/images/detail/Robert_Bateman_Forest_Floor_Chipmunk_Study_1023_39.jpg) This is a good example of what I have been talking about with foreground, background, and cross hatching, but also look at his other work online. You might try tightening your compositions a bit so you can focus on some details.
  - Alexandra Grahe (6 months ago): added a comment
  - Spencer Ebbinga (6 months ago): added a comment
  - Spencer Ebbinga (6 months ago): added a comment
  - Spencer Ebbinga (6 months ago): Nice quick sketch...what is the red? The wolf is rendered pretty well but is also looking a bit "cute" vs. wolfish. I believe this is mostly due to the foreshortening from the front legs to the butt. Perhaps the length of the snout as well. Good job on the background...I really like the way you compose your scenes...you have a good eye!

# Find Support

- [support@osf.io](mailto:support@osf.io) – they are highly motivated to improve scientific transparency by making sure your OSF experience is rewarding
- Jon Grahe – invite me to your institution, department, or division for workshops
- This Slide Show (<https://osf.io/f5ses>)
  - Available on  
[P481-Reproducibility in Psychological Sciences - Spring16 PLU](#) OSF page
  - Use slides to build course specific instructions or as basic introduction