Research Workflow Management

Hans IJzerman
LIP/PC2S
Universiteé Grenoble Alpes

2018/12/11 (updated: 2018-12-11)

We have a problem

To briefly sum up:

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We have a problem

To briefly sum up:

- Questionable Research Practices

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We have a problem

To briefly sum up:

- Questionable Research Practices
- Publication Bias

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We have a problem

To briefly sum up:

- Questionable Research Practices
- Publication Bias
- Reproducibility Problems

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Only Psychology?

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Only Psychology?

These problems are not unique to psychology,

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Only Psychology?

These problems are not unique to psychology, in fact, problems seem to be ubiquitous.

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Only Psychology?

These problems are not unique to psychology, in fact, problems seem to be ubiquitous. But psychology has been dealing with the problems.

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Solutions

How have we been resolving this?

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Solutions

How have we been resolving this?

- Sharing code, data, and materials

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Solutions

How have we been resolving this?

- Sharing code, data, and materials
- Separating Exploratory and Confirmatory Research

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Solutions

How have we been resolving this?

- Sharing code, data, and materials
- Separating Exploratory and Confirmatory Research
- Building in accuracy checks

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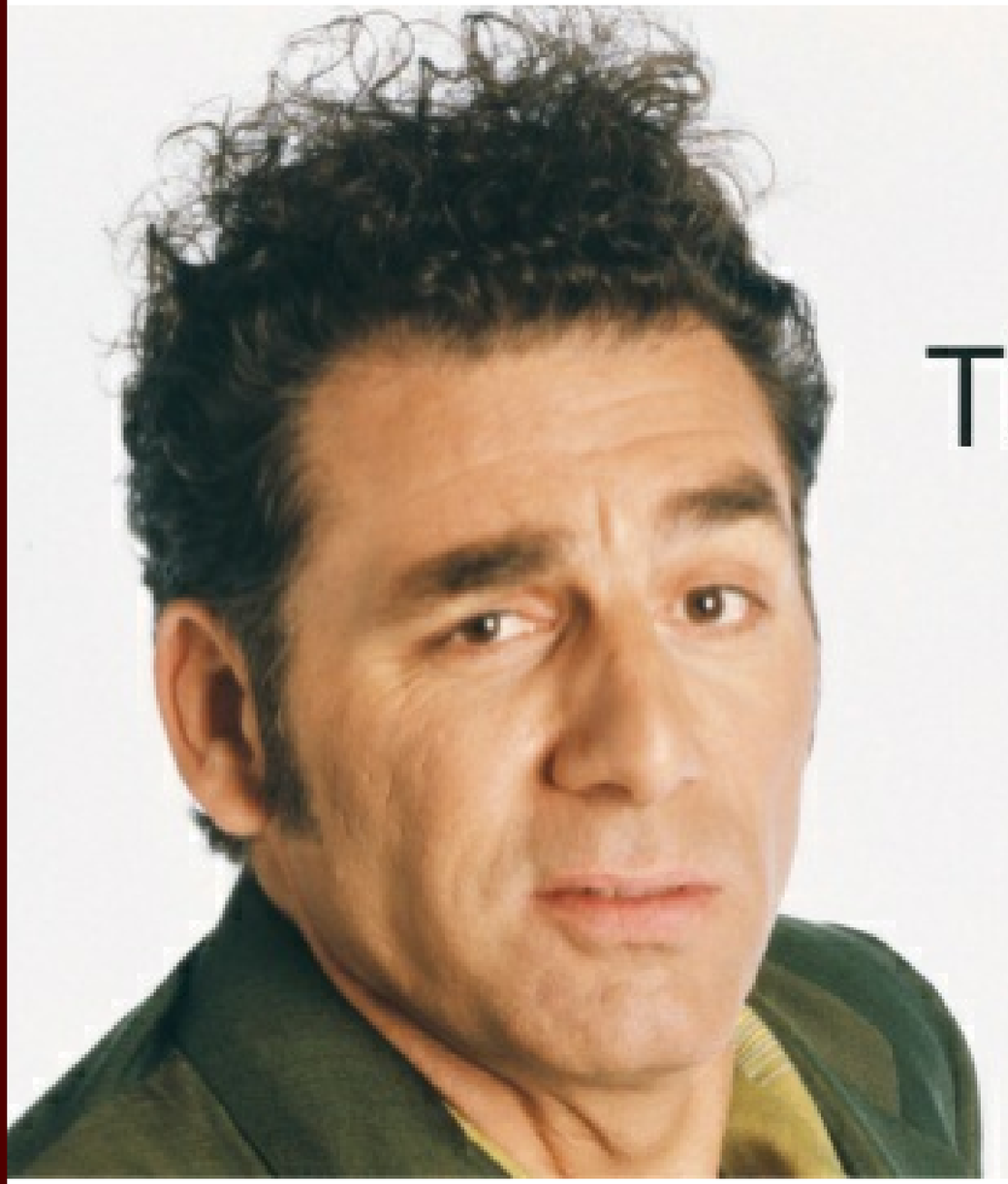

That seems like a lot of work.

Why Bother?

Challenges

The challenges are often about:

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Challenges

The challenges are often about:

- Technology

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Challenges

The challenges are often about:

- Technology
- Habits

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Challenges

The challenges are often about:

- Technology
- Habits
- Continuous Development

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Our Approaches

How have we been resolving this?

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Our Approaches

How have we been resolving this?

- Local level (Lab): Workflow/Lab Philosophy

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Our Approaches

How have we been resolving this?

- Local level (Lab): Workflow/Lab Philosophy
- Teaching open practices

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Our Approaches

How have we been resolving this?

- Local level (Lab): Workflow/Lab Philosophy
- Teaching open practices
- Yearly workflow updates

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Workflow/Lab Philosophy

Lab Philosophy at www.corelab.io

Research Workflow

Hosted at the Open Science Framework (www.osf.io)

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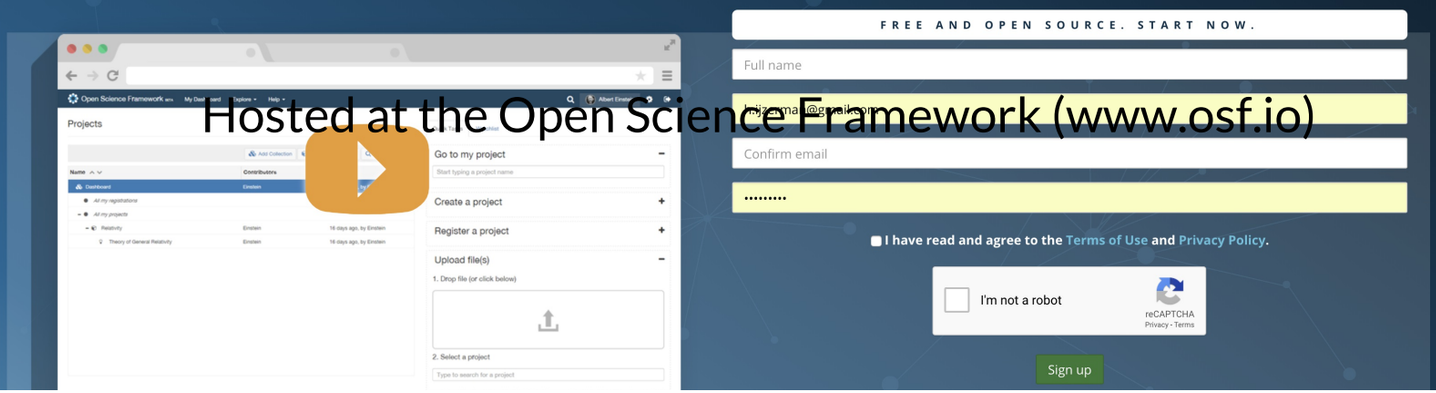
Open Science Framework

A scholarly commons to connect the entire research cycle

Research Workflow



Hosted at the Open Science Framework (www.osf.io)

Research Workflow

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Research Workflow

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- Allows (local) data-sharing

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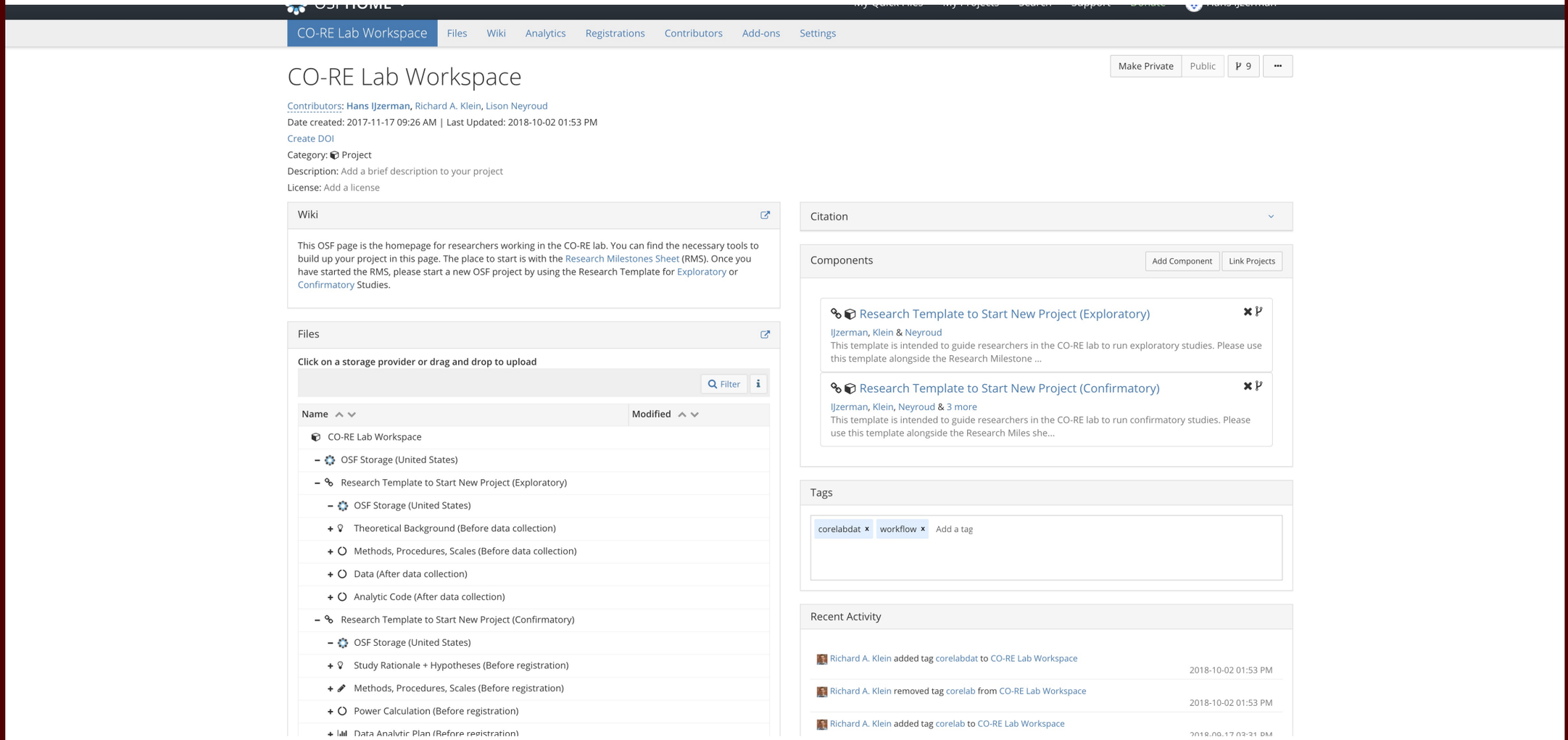
- Allows (local) data-sharing
- Allows separation exploratory and confirmatory research

Research Workflow

Hosted at the Open Science Framework (www.osf.io)

- Allows (local) data-sharing
- Allows separation exploratory and confirmatory research
- Allows easy collaboration (e.g., ManyLabs 1, 2)


CO-RE Lab Workspace
Files
Wiki
Analytics
Registrations
Contributors
Add-ons
Settings
CO-RE Lab Workspace
Make Private
Public
9
Contributors: Hans IJzerman, Richard A. Klein, Lison Neyroud
Date created: 2017-11-17 09:26 AM | Last Updated: 2018-10-02 01:53 PM
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License: Add a license
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Files
Click on a storage provider or drag and drop to upload
Filter
Name
Modified
CO-RE Lab Workspace
OSF Storage (United States)
Research Template to Start New Project (Exploratory)
OSF Storage (United States)
Theoretical Background (Before data collection)
Methods, Procedures, Scales (Before data collection)
Data (After data collection)
Analytic Code (After data collection)
Research Template to Start New Project (Confirmatory)
OSF Storage (United States)
Study Rationale + Hypotheses (Before registration)
Methods, Procedures, Scales (Before registration)
Power Calculation (Before registration)
Citation
Components
Add Component
Link Projects
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workflow
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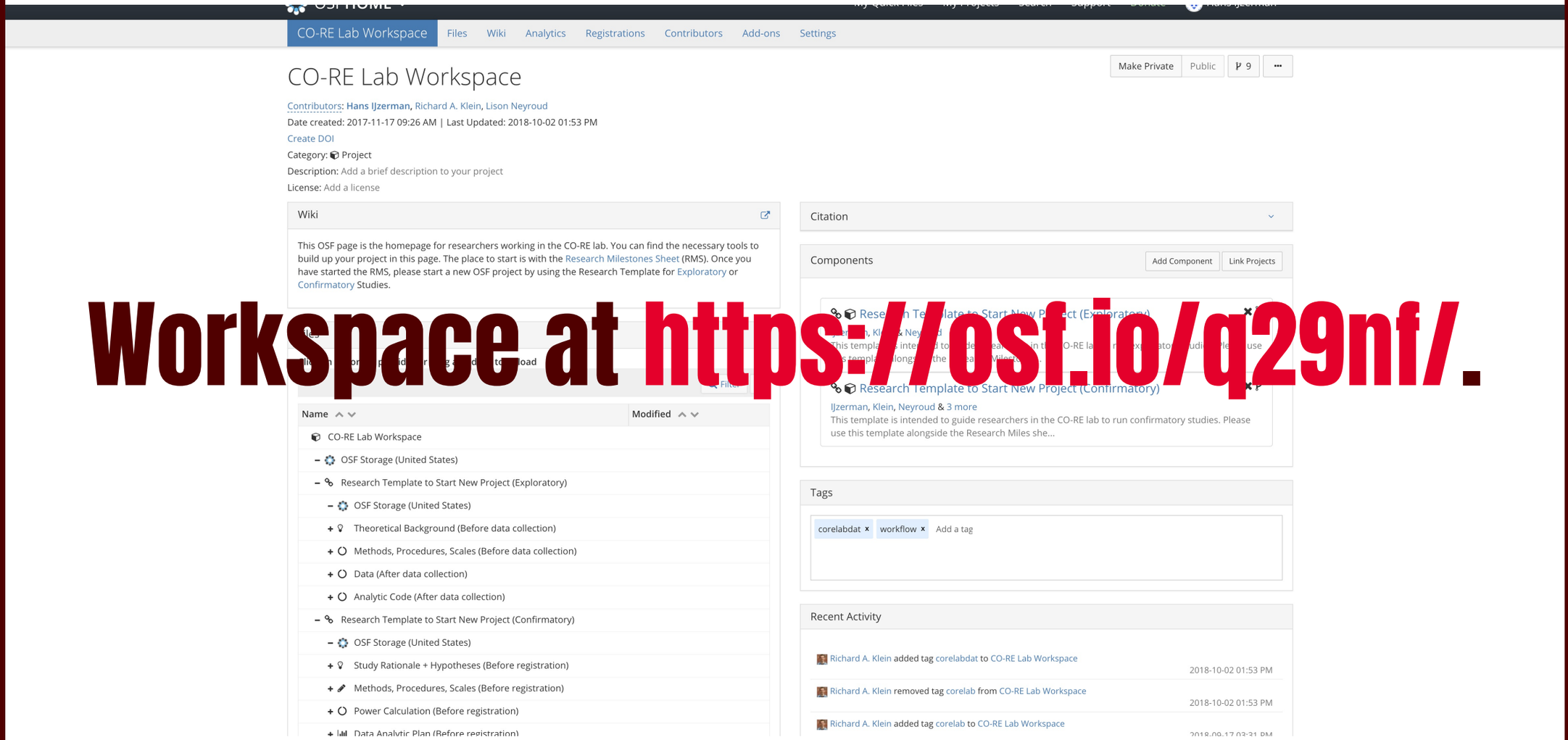
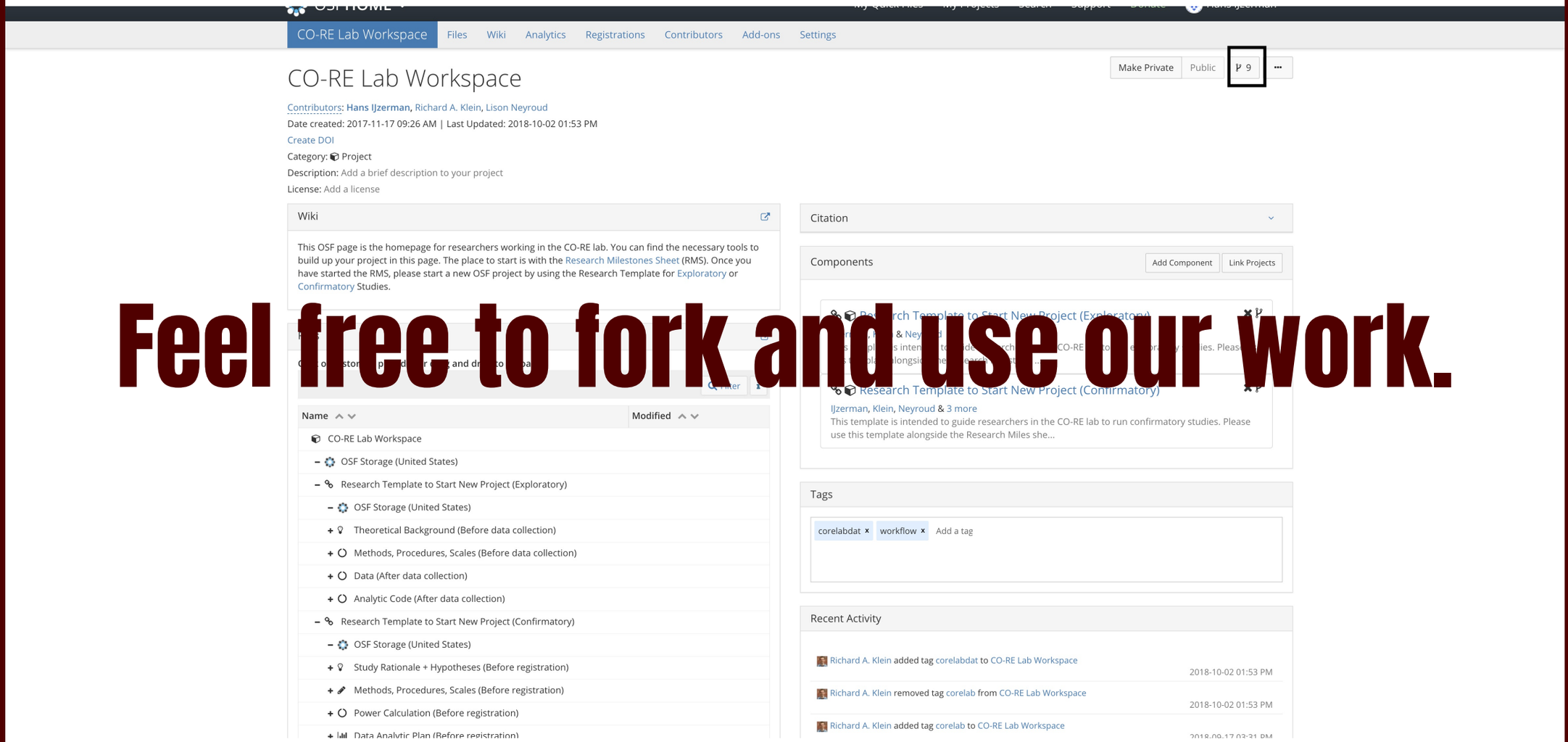
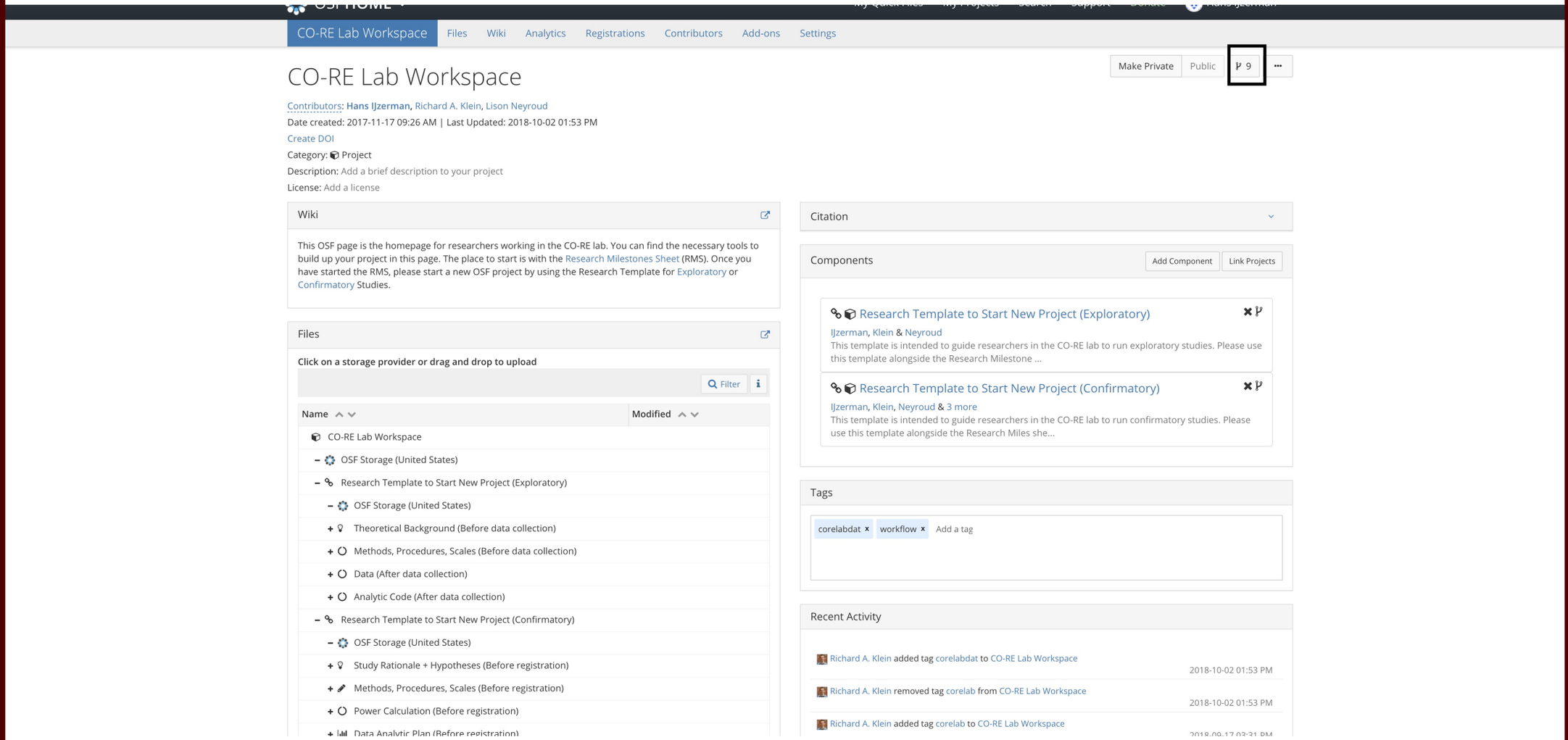


Workspace at https://osf.io/q29nf/.



Feel free to fork and use our work.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Files
Wiki
Analytics
Registrations
Contributors
Add-ons
Settings
Make Private
Public
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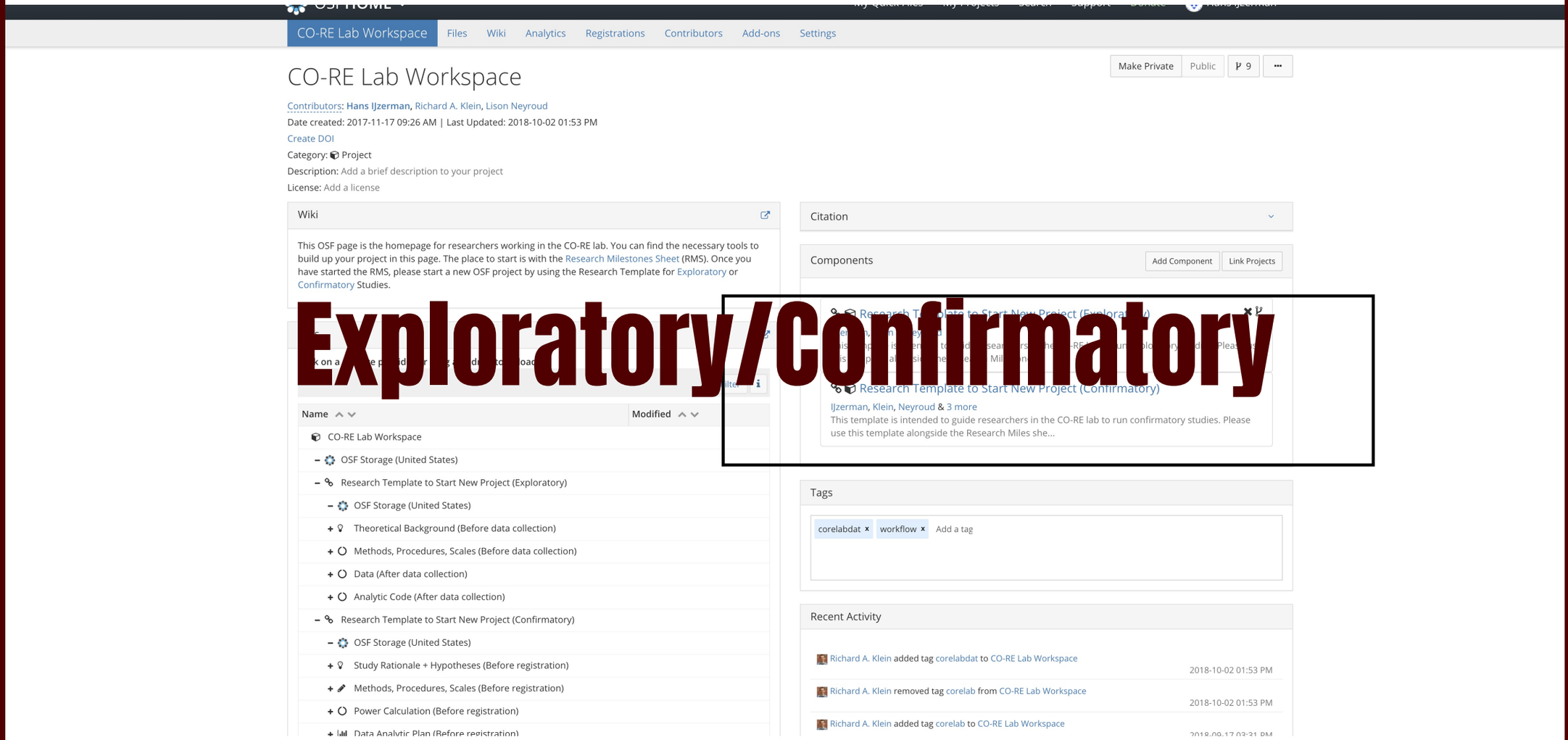
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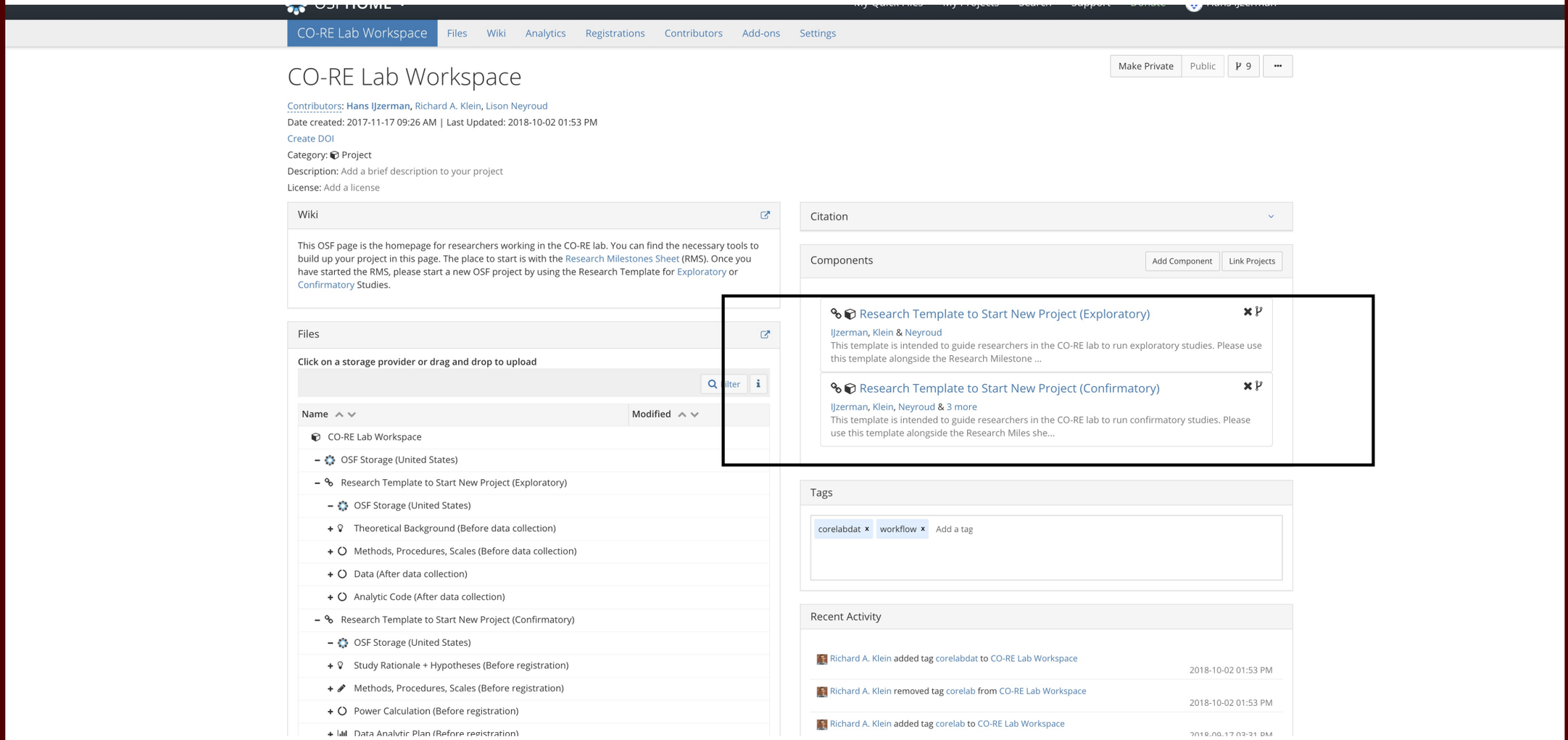
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Research Template to Start New Project (Confirmatory)

Contributors: Hans IJzerman, Richard A. Klein, Lison Neyroud, Subatli Tiffany, Zoé Lackner, Barbosa Vivian

Date created: 2014-07-28 04:33 PM | Last Updated: 2018-10-09 02:41 PM

Category: Project

Description: This template is intended to guide researchers in the CO-RE lab to run confirmatory studies. Please use this template alongside the Research Miles sheet.

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  IJzerman, Klein, Neyroud & 3 more
- Data (After data collection)
  IJzerman, Klein, Neyroud & 3 more
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- Explanation of Auxiliary/Exploratory Analyses (After data collection)
  IJzerman, Klein, Neyroud & 3 more

Recent Activity

Organisation of Project

Research Template to Start New Project (Confirmatory)

Contributors: Hans IJzerman, Richard A. Klein, Lison Neyroud, Subatli Tiffany, Zoé Lackner, Barbosa Vivian

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Recent Activity

View

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- Fill in the name of the project, the order of authors, and the link to your new OSF project page in the Research Milestones Sheet (RMS).
- Decide whether you will make the OSF page public at this time (the default initially is no, but in certain cases, it can be yes).
- Review the literature and write the review. Develop your hypothesis and post them on the OSF (link to page in RMS).
- Do your power calculation (NB: given the existing publication bias in [illegible] power calculation. The wisest approach is likely to take the smallest effect size of interest). (Link to completed [illegible]).
- Complete your proposed methods and include all materials needed [illegible] (RMS).
- Write your syntax (SPSS, R, or other software program) and post on OSF (link to page in RMS). Preferably use simulated data to see if the code works.
- Complete your ethics application if needed (in consultation with the lab's PI).
- **Pre-register your study. By default, keep private unless otherwise decided (link to page in RMS).**
- Before running study, double-check pre-registration. If you made a mistake before data collection, fork project and explain mistake (if so, link to fork in RMS. Pre-register project again).
- After data collection, de-identify data so that participants cannot be recognized. If page/data will be made public, verify deidentification with PI. (link to page in RMS)
- Post analytic code written after data collection (link to page in RMS).
- Describe verbally on OSF which analyses were done separate from pre-registration (auxiliary/exploratory analyses; link to page in RMS).
- Let data, code, and OSF page be checked by an independent researcher. Researcher should be able to use script to go from raw data to final results, and verify numbers in manuscript. Researcher should also verify deidentification. The independent researcher should be added to the OSF page and as second to last co-author on paper. Indicate completion on the RMS.
- - Run your manuscript through a Plagiarism Checker (e.g., https://plagiarismcheckerx.com/).
- Post your completed RMS to the OSF page.
- Post paper to a pre-print server after submitting paper to a journal (preferably PsyArxiv, so you can directly link to this project page).

Workflow

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Teaching open practices

Research Tools in Social Cognition

Instructor: Dr. Hans IJzerman
E-mail: hans.ijzerman@univ-grenoble-alpes.fr
Office: D202 (BSHM)

Objectives

This course is designed to provide you with the tools to conduct more precise, accurate, and solid studies in social cognition that matter. You may be well aware that psychology has faced a reproducibility crisis. This course will offer you tools to better cope with this crisis. Because I strongly feel that [illegible] theory, the research approaches discussed in this [illegible] well-suited for the methods we discuss. The main purpose of this course is for you to get a better sense of research approaches in social cognition. By nature of the design of this course (and due to time constraints), we will only be able to sample a limited amount of methods, so I will try to give you what I feel are some of the most important tools for you to utilize during your research career.

Contents

We will start discussing the reproducibility crisis. Following this, will focus on how to increase the level of precision for your research, while at the same time supporting you in drawing better inferences from your data. In so doing, we will discuss why it is important to distinguish exploratory and confirmatory psychological science, discuss how to engage in these different approaches to your data, learn how to pre-register a study, and set up a plan for you to share your materials (including the assessment of different methods to share research data and materials). Finally, we will also take a brief dive into methods that can help you explore your data in systematic ways.

Home

Toggle view: View Compare

Menu

- Project Wiki Pages
  - Home
- Component Wiki Pages

View Wiki Version: (Current) Hans IJzerman: 2018-09-24 09:11:22+00:00 UTC

Workshop Goal

To provide hands-on training in open science. Topics discussed during the workshop include exploratory social psychological science (e.g., deep learning), confirmatory social psychological science (i.e., pre-registration), and other aspects of establishing a reproducible workflow. The workshop is primarily aimed at providing training to researchers with fewer financial resources.

Conference Hashtag: #SolidBordeaux2018

Conference Videos: http://www.teletoile.u-bordeaux2.fr/2018_2019/EASP/index.html

Content Specifics

The last few years have seen social psychology in a crisis, ranging from outright fraud (e.g., Stapel) to considerable concerns about reproducibility (e.g., Open Science Collaboration, 2015). Yet, [illegible] research materials and data, pre-registration, and separating exploratory fr[illegible] to more solid science is not easy. This workshop therefore deals with the c[illegible] workflow (Frederic Aust), conduct proper power analyses for both simple and comp[illegible] integrate these new habits into undergraduate teaching (Fieke Wagemans [illegible] has), and initiating or participating in crowd-sourced research (Ben Jones). We will also discuss the changes to the new EU data security laws and ho[illegible] psychologists can prepare for these changes. The workshop will also have a special focus on how to reduce the costs of open science for the researchers, while at the same time gather resources to be able to meet the challenges of the Revolution 2.0 (Spellman, 2015). The workshop is co-organized by the Université de Bordeaux and Université Grenoble Alpes and is supported by EASP.

Participant Specifics

The workshop is primarily aimed at researchers with fewer financial resources. First preference will be given in access to the workshop to researchers from the European Union whose residence country spends less on research and development per capita. Second preference will be given to EU researchers without any active research grants. At least 50 % (and likely more) of the workshop participants will be EASP members.

Presenters

- Frederik Aust (University of Cologne): *A practical primer on transparent research workflows*
- Marco Perugini (Universita degli Studi di Milano-Bicocca): *A practical primer to power analysis*
- Michèle Nuijten (Tilburg University): *Open source & open science software*
- Fieke Wagemans (Universität Duisburg-Essen): *Teaching open science: The CREP*
- Rick Klein (Université Grenoble Alpes): *Exploratory social science: Getting the most out of your data, and an introduction to concepts in Deep Learning and cross-validation*
- Kai Jonas (Maastricht University): *Pre-registration in psychological science (and how to fund it)*
- Ben Jones (University of Glasgow): *Crowdsourcing psychological science: The Psychological Science Accelerator*

Workshops

Home

Toggle view: View Compare

Menu

- Project Wiki Pages
  - Home
- Component Wiki Pages

View

Wiki Version: (Current) Hans IJzerman: 2018-09-24 09:11:22+00:00 UTC

Workshop Goal

To provide hands-on training in open science. Topics discussed during the workshop include exploratory social psychological science (e.g., deep learning), confirmatory social psychological science (i.e., pre-registration), and other aspects of establishing a reproducible workflow. The workshop is primarily aimed at providing training to researchers with fewer financial resources.

Conference Hashtag: #SolidBordeaux2018

Conference Videos: http://www.teletoile.u-bordeaux2.fr/2018_2019/EASP/index.html

Content Specifics

https://osf.io/gvkxn

The last few years have seen social psychology in a crisis, ranging from outright f[illegible]d (e.g., Stapel) to considerable concerns about reproducibility (e.g., Open Science [illegible] 2015). [illegible] psychologist[illegible] [illegible]tration, and [illegible] this workshop [illegible] power analyses [illegible]rgraduate [illegible] crowd-sourced research (B[illegible] Jones). We will also discuss the changes to the new EU data security laws and how psychologists can prepare for these changes. The workshop will also have a special focus on how to reduce the costs of open science for the researchers, while at the same time gather resources to be able to meet the challenges of the Revolution 2.0 (Spellman, 2015). The workshop is co-organized by the Université de Bordeaux and Université Grenoble Alpes and is supported by EASP.

Participant Specifics

The workshop is primarily aimed at researchers with fewer financial resources. First preference will be given in access to the workshop to researchers from the European Union whose residence country spends less on research and development per capita. Second preference will be given to EU researchers without any active research grants. At least 50 % (and likely more) of the workshop participants will be EASP members.

Presenters

- Frederik Aust (University of Cologne): *A practical primer on transparent research workflows*
- Marco Perugini (Universita degli Studi di Milano-Bicocca): *A practical primer to power analysis*
- Michèle Nuijten (Tilburg University): *Open source & open science software*
- Fieke Wagemans (Universität Duisburg-Essen): *Teaching open science: The CREP*
- Rick Klein (Université Grenoble Alpes): *Exploratory social science: Getting the most out of your data, and an introduction to concepts in Deep Learning and cross-validation*
- Kai Jonas (Maastricht University): *Pre-registration in psychological science (and how to fund it)*
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Yearly workflow updates

Thanks!

Slides created via the R package xaringan.
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