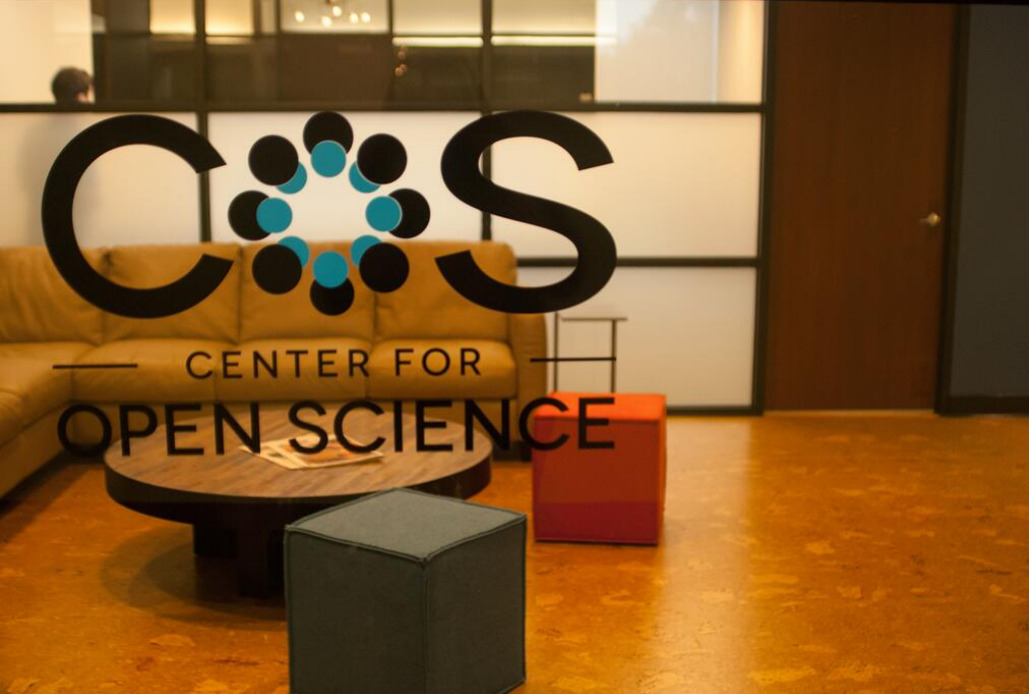


Pre-registration

Brian Nosek



Infrastructure
Community
Metascience

Mission: Improve
openness, integrity,
and reproducibility
of scientific research

COS as start-up

Rapid development

Concrete actions

Test and iterate

Pre-registration of studies

Goal

Study Exists

Solves

File-drawer + selective reporting of studies

Pre-registration of analysis plans

Goal

Clarify confirmatory versus exploratory

Solves

Inflation of effects + selective reporting of analyses

Pre-registration initiatives

- Badges
- TOP Guidelines
- Replication projects
- OSF registration service / Registry
- Registered Reports
- Prereg Prize

A screenshot of a web browser displaying the Open Science Framework (OSF) homepage. The browser's address bar shows 'OSF | Home' and 'sf.io'. The page header includes 'Open Science Framework BETA', navigation links for 'Explore' and 'Help', and a search bar labeled 'Search the OSF'. The main content area features a large heading and a descriptive paragraph.

Project management with collaborators,
project sharing with the public

The Open Science Framework (OSF) supports the entire research lifecycle: planning, execution, reporting, archiving, and discovery.

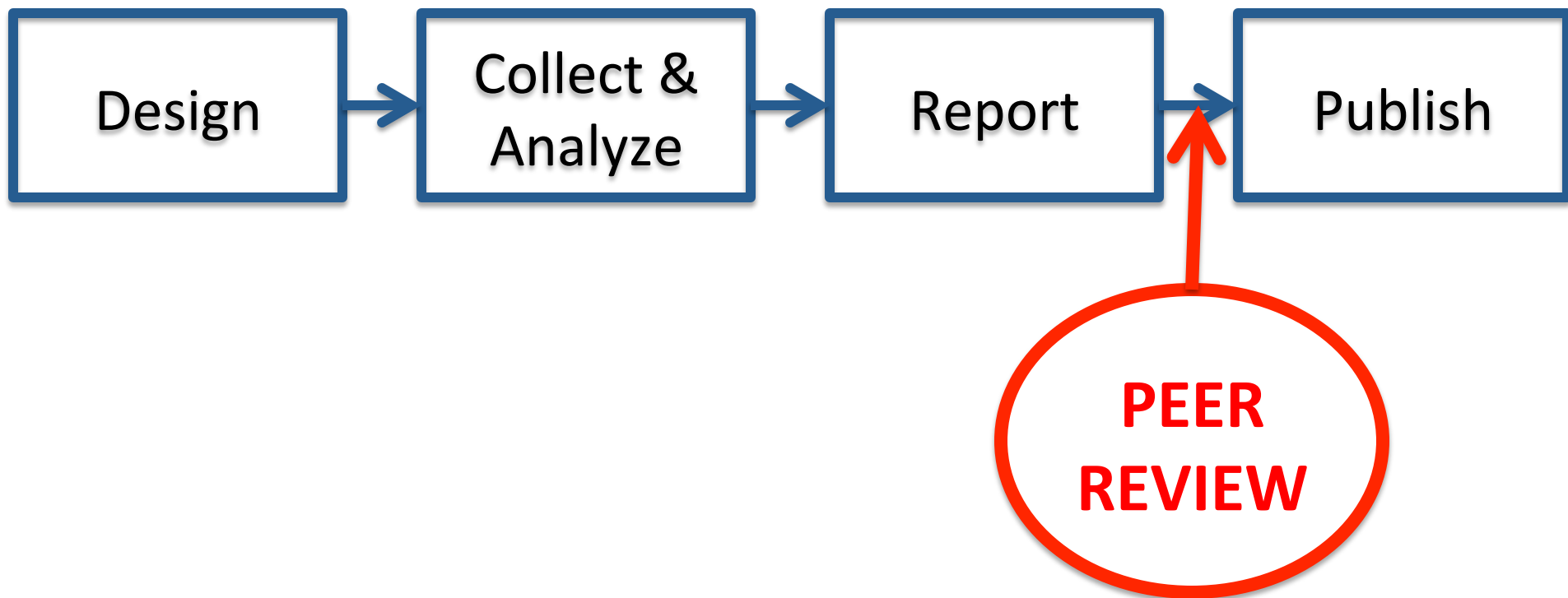
<http://osf.io/>

10,355 users
+ ~25/day

13,000 projects
(3,000 public)

2,500 registrations

Registered Reports



Registered Reports

Contributors: [Chris Chambers](#), [George Banks](#), [Dorothy Bishop](#), [Sara E Kai Jonas](#), [Edward Miguel](#), [Marcus Munafo](#), [Brian A. Nosek](#), [Brendan](#)
Date Created: 2014-02-04 12:10 PM | Last Updated: 2014-11-26 01:2
Description: A research publishing format in which protocols and analy

Overview Files **Wiki** Statistics Registrations

View **History**

Project Wiki Pages

Home

- [1. Details and Workflow](#)
 - [2. Journal Comparison](#)
 - [3. Resources for Editors](#)
 - [4. Frequently Asked Questions](#)
- [FAQ 1: Novelty of Format](#)
[FAQ 2: Philosophy of Science](#)
[FAQ 3: Design and Analysis](#)
[FAQ 4: Timescale](#)

Home

Registered Reports em
conducting the peer rev
journal if the authors fo

“Registered Re
not known at th
Champaign and
Science. Chris
Neuroscience, ;
[Science \(COS\)](#) ;
from producing

Two articles provide an
Reports in Social Psycht
including answers to 25

- AIMS Neuroscience
- Atten., Percept. & Psychophysics
- Comparative Political Studies
- Comp. Results in Social Psych.
- Cortex
- Drug and Alcohol Dependence
- eLife
- Experimental Psychology
- Frontiers in Cognition
- Journal of Business and Psychology
- Nutrition and Food Science Journal
- Perspectives on Psych. Science
- Primate Biology
- Royal Society Open Science
- Social Psychology
- Work, Aging, and Retirement

<http://cos.io/prereg>

Plan. Test. Discover.

One thousand researchers will win \$1,000 each for publishing work whose analyses were pre-registered on the Open Science Framework. Sign-up here to stay informed!



How does preregistration alter...

- questions studied
- research designs
- data collection
- analyses conducted
- results observed
- results reported
- evaluation of results reported
- reproducibility of results observed and reported
- pace of research progress

Randomized Trial of Prereg

- 250 researchers, \$1000 awards
- Two research ideas each
- Random assignment to prereg or control
- Researchers commit to:
 - Conducting both studies; prereg one of them
 - Making all materials and data available after 2 years
 - Answering a few surveys during the 4 year research period (conception through publication, or not)