

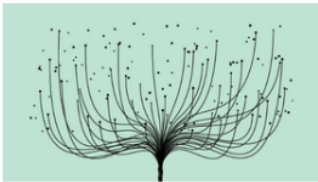
Preregistration on Open Science Framework (OSF)

Agata Bochynska, PhD

Open Research and Digital Scholarship Center

@AgataBochynska

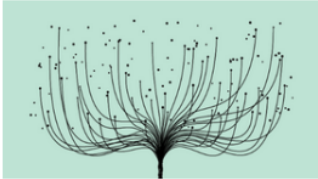
agata.bochynska@ub.uio.no



Time and place: Feb. 3, 2023 10:00 AM–11:30 AM, Zoom

Introduction to open and reproducible research

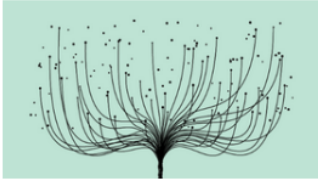
Learn about what open research is and how to make your own research more transparent and reproducible.



Time and place: Feb. 6, 2023 10:00 AM–11:30 AM, Zoom

Preregistration of research studies

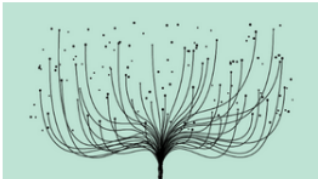
Learn about what preregistration is and how to preregister your own studies.



Time and place: Feb. 8, 2023 10:00 AM–11:30 AM, Zoom

Preregistration on Open Science Framework (OSF)

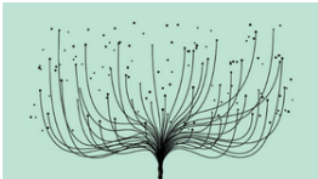
Learn about how to preregister your study on Open Science Framework (OSF) and how to navigate the platform.



Time and place: Feb. 13, 2023 10:00 AM–11:30 AM, Zoom

Reproducible research workflows

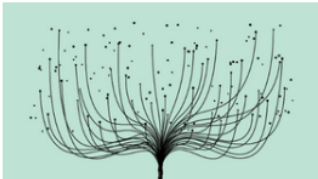
Learn about tools and practices for more reproducible and effective research.



Time and place: Feb. 27, 2023 1:00 PM–2:30 PM, Zoom

Open Access publishing

Learn about Open Access and how can you choose the best way to publish your results openly.



Time and place: Mar. 3, 2023 9:00 AM–10:30 AM, Zoom

Researcher visibility

Learn about different tools, platforms and services to share your research and other contributions, and how you utilise them to make yourself and your work more visible to the academic community and the society at large.

Open and reproducible research courses

Feb 3rd – March 3rd 2023

What is OSF?



Free, discipline-general platform that helps researchers:

- manage
- document
- share

their research plans, outputs and workflows



The open registries network

Add New Registration

You are submitting to OSF Registries. [Click here](#) to learn more about other hosted registries.

STEP 1

Do you have content for registration in an existing OSF project?

YES

NO

STEP 2

Which type of registration would you like to create? *

OSF Preregistration ▲

OSF Preregistration ▲

Open-Ended Registration

OSF-Standard Pre-Data Collection Registration

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

Preregistration Template from AsPredicted.org

Qualitative Preregistration ▼

What is preregistration?

The specification of a research design, hypotheses, and/or analysis plan prior to observing the outcomes of a study.

Typically takes a form of a time-stamped, frozen document made available on an online platform.

What do I need to preregister?



Research questions
and hypotheses



Study design and data
collection methods



Data preprocessing
and analysis plan

When writing up...

- Think through your hypotheses, methods, and planned statistical analyses very carefully
- Be precise about your exclusion criteria, stopping rule, handling missing data and outliers
- Try out your methods and planned analyses in a pilot study or on mock data
- Think about possible unexpected scenarios

When writing up...

We are interested in testing group differences.

We hypothesize that groups A and B will differ in condition X...

We will exclude inattentive participants.

We will exclude participants who did not pass 2 out of 3 control questions.

We will remove outliers.

We will remove influential observations identified through Cook's Distance analysis.

Platforms and templates

Focus	Type of research	Platform	Template
Discipline-specific	Clinical research	clinicaltrials.gov	Generic
		clinicaltrialsregister.eu	
	Animal research	animalstudyregistry.org	Generic
	Economics/Social sciences	socialscienceregistry.org	Generic
	Systematic reviews in health-related research	www.crd.york.ac.uk/prospero/	Generic
Discipline-general	Basic research	aspredicted.org	Generic
		osf.io/registries	Structured, Unstructured, Qualitative research, Replications, etc.

Platforms and templates

Focus	Type of research	Platform	Template
Discipline-specific	Clinical research	clinicaltrials.gov	Generic
		clinicaltrialsregister.eu	
	Animal research	animalstudyregistry.org	Generic
	Economics/Social sciences	socialscienceregistry.org	Generic
	Systematic reviews in health-related research	www.crd.york.ac.uk/prospero/	Generic
Discipline-general	Basic research	aspredicted.org	Generic
		osf.io/registries	Structured, Unstructured, Qualitative research, Replications, etc.

Let's try it on OSF!



Go to: <https://osf.io/>

Almost done...



Remember:

- Do not edit any files until the registration has completely archived.
- This will be permanent and cannot be deleted once submitted.
- This registration will be copied to Internet Archive as a backup.
- Title and contributors cannot be updated once submitted.

☐ **Make registration public immediately**

☐ **Enter registration into embargo**

Submit

Back

Changes to preregistration

- Even the best plans might need changes once implemented
- When reporting deviations from the original, preregistered plan, be **explicit** about what has changed
- If needed, you can upload changes to your time-stamped preregistration or preregister a new plan (but refer to the original preregistration and explain why you made the changes)

Thank you!

Questions?

Read more about preregistration on OSF:
<https://www.cos.io/prereg>

Templates of OSF registration forms:
<https://osf.io/zab38/>

Agata Bochynska, PhD

Open Research group, University of Oslo Library

@AgataBochynska

agata.bochynska@ub.uio.no

Sources

- Fanelli, D. (2010). Positive' results increase down the hierarchy of the sciences. *PLOS One*, 5. <https://doi.org/10.1371/journal.pone.0010068>
- Hardwicke T.E., Ioannidis J.P.A. (2018). Mapping the universe of registered reports. *Nature Human Behavior*, 2, 793–796. <https://doi.org/10.1038/s41562-018-0444-y>
- Kerr N. (1998). HARKing: hypothesizing after the results are known. *Personality and Social Psychology Review*, 2, 196–217. https://doi.org/10.1207/s15327957pspr0203_4
- Markowetz F. (2015). Five selfish reasons to work reproducibly. *Genome Biology*, 16, 274. <https://doi.org/10.1186/s13059-015-0850-7>
- Munafò, M., Nosek, B., Bishop, D., Button, K., Chambers, C., Percie du Sert, N., et al. (2017). A manifesto for reproducible science. *Nature Human Behavior*, 1, 0021. <https://doi.org/10.1038/s41562-016-0021>
- Nosek, B., Ebersole, C.R., DeHaven, A.C., Mellor, D.T. (2018). The preregistration revolution, *PNAS*, 201708274. <https://doi.org/10.1073/pnas.1708274114>
- Nosek, B., & Lindsay, S. (2018). Preregistration Becoming the Norm in Psychological Science. *APS Observer*, 31. <https://www.psychologicalscience.org/observer/preregistration-becoming-the-norm-in-psychological-science>
- Nuzzo R. (2015). How scientists fool themselves—and how they can stop. *Nature*; 526: 182–185. <https://doi.org/10.1038/526182a>
- Sarafoglou, A. (2021). Confirmatory versus Exploratory Analysis. *SIOS Lecture*. <https://osf.io/gnkvh/>
- Scheel A.M., Schijen M., Lakens D. (2021) An Excess of Positive Results: Comparing the Standard Psychology Literature With Registered Reports. *Advances in Methods and Practices in Psychological Science*. <https://doi.org/10.1177/25152459211007467>
- Schönbrod, F. (2021). An introduction to Open Science. Doing transparent, credible and efficient research. <https://osf.io/vza25/>
- Wagenmakers, E.J., Dutilh, G. (2016). Seven Selfish Reasons for Preregistration. *APS Observer*, 29 <https://www.psychologicalscience.org/observer/seven-selfish-reasons-for-preregistration>
- Warren, M. (2018). First analysis of 'pre-registered' studies shows sharp rise in null findings. *Nature*. <https://doi.org/10.1038/d41586-018-07118-1>

[Norwegian
version of this
page](#)

Digital Scholarship Centre

At the Digital Scholarship Centre (DSC) you get guidance on how you can make the best possible use of digital tools and methods in your research and communication activities.

Open Access



Information about open access publishing, publisher agreements, self-archiving, requirements, and guidelines.

Open and reproducible research



Make your research more transparent and reproducible.

Research Data Management



Managing your data both during and after a research project.

Text-mining



Information about digital tools for searching, mining, and analysing textual data.

Systematic search



Information about systematic literature searching, how to get started, and how to get help.

Visualisation



Use of visual methods to explore, communicate and understand data.

Carpentry@UiO



Offers workshops in foundational digital skills such as coding and data management.

Reference management



Styles, tools, and information on reference management.

Open and reproducible research

Learn about how to make your research more open and reproducible and get involved in initiatives and communities that are interested in sharing and improving research at UiO.

More and more researchers and students across disciplines are implementing open research practices, preregistering their hypotheses, methods, and analysis plans and sharing research materials, data and analysis scripts. Digital Scholarship Center can help you learn about and implement these practices in your own research as well as advise on the policies and requirements from funders.

Open Science Lunch



Every last Thursday of the month we meet at noon to discuss topics related to open research.

ReproducibiliTea@UiO



Join us for a Journal Club where we read and discuss papers on open research and meta-science.

Norwegian Reproducibility Network



Join a broader community that aims to promote and enable rigorous, robust and transparent research practices in Norway

Courses and workshops



Click here for the list of upcoming and previous courses and workshops on open and reproducible research at UiO.

ReproducibiliTea

Journal Club

**JOIN IN AND DISCUSS WITH FELLOW
STUDENTS AND RESEARCHERS**

**OPEN RESEARCH, REPRODUCIBILITY
and RESEARCH IMPROVEMENT**



Join us

Everyone is welcome to join us - whether you are an enthusiast of open and reproducible research, a skeptic, or a cautious explorer. Currently, all meetings are hybrid with the possibility of joining on-site at Blindern or via Zoom. Grab a cup of tea (coffee?) and join us!

Subscribe to our mailing list





University of Oslo Library

Digital Scholarship Center and Open Research

Open Science Lunch 2023

Each last Thursday of the month at 12.00 we invite you to join us virtually for an online open lunch to hear about how to make your research more open.

February 23rd

Open your data with DataverseNO

March 30th

Public health reporting: an open source approach

April 27th

Open knowledge resources: Store norske leksikon and Wikipedia

May 25th

Keep the rights to your work: UiO's Rights Retention Policy



Upcoming



Time and place: Feb. 23, 2023 12:00 PM–1:00 PM, Hybrid: Georg Sverdrups hus and Zoom

Open your data with DataverseNO

Learn about DataverseNO - a new institutional data archive for open data at UiO.



Time and place: Mar. 30, 2023 12:00 PM–1:00 PM, Hybrid: Georg Sverdrups hus and Zoom

Public health reporting: an open source approach

Join us for a discussion on how open source tools can enable automated, reproducible and scalable public health reporting.



Time and place: Apr. 27, 2023 12:00 PM–1:00 PM, Hybrid: Georg Sverdrups hus and Zoom

Open knowledge resources: Store norske leksikon and Wikipedia

Join us for a discussion on using, maintaining and contributing to freely available open knowledge resources.



Time and place: May 25, 2023 12:00 PM–1:00 PM, Hybrid: Georg Sverdrups hus and Zoom

Keep the rights to your work: UiO's Rights Retention Policy

Learn about how you can retain the rights to your published work with the new Rights Retention Policy at UiO.

[Norwegian
version of this
page](#)

Digital Scholarship Centre

At the Digital Scholarship Centre (DSC) you get guidance on how you can make the best possible use of digital tools and methods in your research and communication activities.

Åpen og reproducerbar forskning | Visualisering | Carpentry@UiO | Åpen tilgang | Tekstutvinning

Senter for Digital Forskerstøtte

Digital Scholarship Centre

DSC NEWS

Desember 2022

Digiforskbloggen | Forskningsdatahåndtering | Systematisk litteratursøk | Referansehåndtering

<https://sympa.uio.no/ub.uio.no/subscribe/dsc-news/subscribe>