

## Proposal for pre-conference workshop – AGILE 2020

Chania, Tuesday June 16, 2020

<https://agile-online.org/conference-2020/>

### 1. Workshop name/title (and acronym if applicable)

Introduction to reproducible research by means of the new AGILE Reproducible Paper Guidelines

### 2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

#### 2.1 Topic(s)

reproducible research, open science, computational skills development, scholarly communication

#### 2.2 Objective(s)

The workshop introduces attendees to the AGILE Reproducible Paper Guidelines (<https://doi.org/10.17605/OSF.IO/CB7Z8>). The 2020 AGILE Conference will be the first AGILE Conference to encourage authors to follow common practices towards high transparency and reusability of AGILE conference submissions. Attending the workshop prepares participants for submitting more reproducible workflows to future AGILE conferences and other conferences and journals, and to effectively review and evaluate reproducibility of publications.

#### 2.3 Planned outcome(s)

- participants get to know and discuss Reproducible Paper Guidelines
- collect feedback on Reproducible Paper Guidelines (potentially leveraging questions on AGILE's Discourse server)
- participants learn about opportunities and challenges of reproducible research
- participants understand the rationale behind the Reproducible Paper guidelines
- participants know how/where they can acquire practical advice on publishing reproducible research
- report on workshop website
- continue to grow the community of researchers proficient in reproducibility across AGILE member labs

### 3. Abstract

Reproducibility, replicability, and transparency are widely recognised as crucial topics for scholarly research. This half day workshop teaches participants concepts and best practices for reproducible research. The workshop prepares participants for the future of research publications by means of presenting the AGILE Reproducible Paper Guidelines in detail, demonstrating common tools for reproducible research, and discussing participants questions and own experiences in the light of reproducibility.

In the GIScience community, the AGILE conference is leading the endeavour towards higher reproducibility with establishing the AGILE Reproducible Paper Guidelines for the 2020 conference (<https://doi.org/10.17605/OSF.IO/CB7Z8>). The guidelines include detailed information about rationale, motivation and vision of reproducible publications at AGILE Conferences. They also link numerous resources for detailed and specific practices, e.g. for social media data, personal data, or workflows in specific programming languages. After the workshop, participants will have a good understanding of the rationale behind the guidelines and the different aspects of data, code, and environments that matter for reproducibility. They will have an overview of the practical challenges in modern data- and code-based scholarly communication, and an understanding of the authors' and reviewers' perspectives.

Registration is open until May 11 2020.

The practical aspects of reproducibility are covered in a second workshop in the afternoon (LINK HERE).

Learn more about the RR@AGILE workshop series at <https://o2r.info/reproducible-agile>.

### 4. Short description of the intended length (half or full day) and the format of the workshop

Half day workshop (morning) introducing the guidelines in a combination of short lectures mixed with discussions to engage participants, and sharing of experiences.

### 5. Brief statement of the relevance of the workshop for AGILE

Reproducible research is without doubt a highly relevant topic, and the workshop series at the AGILE conference has led to an AGILE initiative supported by the AGILE council, and the introduction of the AGILE Reproducible Paper Guidelines at the 2020 conference.

This continuation of the workshop series provides an important forum for AGILE conference participants to learn about the guidelines and prepare for future submissions. We expect that the efforts at persuasion will spread into AGILE member laboratories and will positively impact on the quality of submissions to future AGILE conferences.

**6. What is the approximate number of expected participants?**

10-25

**7. Names and e-mail addresses of the organizing member(s)**

*Leading AGILE member and contact person:*

Institute for Geoinformatics, University of Münster  
Daniel Nüst, [daniel.nuest@uni-muenster.de](mailto:daniel.nuest@uni-muenster.de)

*Contributing AGILE members & organizing committee (persons involved):*

- Faculty of Geo-Information Science and Earth Observation (ITC) of the University of Twente (Frank Ostermann)
- Interfaculty Department of Geoinformatics – Z\_GIS, University of Salzburg (Barbara Hofer)
- Department of Information Systems, University of Jaume I (Carlos Granell)

**8. Additional information about previous workshops, if held.**

<https://o2r.info/reproducible-agile/>

**9. Expected resources needed**

- lecture room
- digital projector
- flip chart or whiteboard

**10. Other information**

More about the RR initiative at <https://o2r.info/reproducible-agile/initiative/>.