Journal Club: Tools for Digital Open Science

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Paper

Digital open science -
Teaching digital tools for reproducible and transparent research
Toelch U, Ostwald D (2018)

Course Content

The Course:

- Session I Introduction to open science
- Session II Preregistration
- Session III Data Repositories (OSF, Dataverse, Zenodo, FAIR data)
- Session IV Code Management (Git, Notebooks)
- Session V Open Access (publication process, preprints, licencing)
- Session VI Chances and Limitations of Open Science
- Course Project: Implement what your learnt

Course Context

MSc of PhD level course
Life Science as main target audience
60 hrs total with 15-20 hrs lectures/tutorials
Narrative: Replicate a study from your field of interest

Final Course Project

Aim: Integrate what you learnt into your workflow

Course Evaluation and Tips

- tailor course to scientific fields/ institutes
- 1/3 of respondents had NO plans to use version control in their projects
- incorporate in existing coursework (either content or ethics or data management course)

What's next?

Discussion Questions:

- Do you know a (mandatory?) course where open science content could be added?
- What about the Bachelor Students?
- What do you think about field-specific courses?
- What about the argument that a reproducible workflow makes your own life easier?
- When is the best time to learn about OS tools?