Collective notes for RO2019 workshop

- **Venue:** IEEE eScience 2019, Catamaran Resort Hotel and Spa, San Diego, CA, US
- **Room:** Cockatoo Room
- **Date:** Tuesday 24 September 2019 (2019-09-24) *full day*
- **Workshop schedule:** http://researchobject.org/ro2019/schedule

This page: https://s.apache.org/ro2019

Dropbox

Speakers, **upload** slides at:
https://www.dropbox.com/request/B1EDF6bNOULm9wS5S7Z7

(uploads assumed to be re-sharable as license CC-BY 4.0 unless otherwise noted)

Participants, **view** or **download** slides at:
https://www.dropbox.com/sh/ac1wecv9e08xsvn/AAAeE8p9vDJ_v9EjvSzCnfO-a?dl=0

Twitter hashtags: #eScience2019 #ResearchObjects (plural)

About this document

This is a **collaborative** document - please help to edit, comment and suggest before/during/after the RO2019 workshop! All workshop participants welcome.

The Collective notes section further down is "free for all" and we are very grateful in any help in taking notes and comments there during the workshop. In the *Discussion / Future Directions* plenary at the end of the workshop we will try to conclude from these notes.

Proposals for lightning talks and breakout sessions

Please edit/suggest/comment below your suggestions for lightning talks and breakout sessions (discussions, collaborations, coding) for the workshop RO2019 in San Diego 23 Sept 2019.

Lightning talks

Lightning talks are quite informal and ad-hoc, e.g**. 1 slide, 2-5 minutes**, and can be used to introduce a single topic, e.g. an ongoing activity, research idea, collaboration opportunity, software or method. These will be done during the *Unconference* session - see the RO2019 programme.

Upload lightning talk slide: https://www.dropbox.com/request/B1EDF6bNOULm9wS5S7Z7

Anyone at the workshop can suggest a lightning talk (not just presenters). Feel free to add yourself here, ideally with a link to webpage/code. You can propose multiple lightning talks on separate topics.

- Poster: Simple, Standards-based Archiving in Dataverse (Nic Weber)
- Poster: Managing Manifests and Distributing Datasets (Jackson Brown)
- Poster: Packaging Legislative Event Data for Reuse & Exchange (Nic Weber)
- NonPoster: Reproducibility Index, an idea; competition to the Impact Factor (Anita Bandrowski) report_science.aaw7765_replication.pdf
- ..you?

You can suggest ad-hoc lightning talks during the workshop. Due to time constraints the RO organizers can't promise that all talks will be accepted.

Discussion topics

Anyone at the workshop can suggest a topic for discussion, technical deep-dive or brainstorming. For instance if something comes up during a session Q&A, it can be added below for re-visitting during the *unconference* session.

- Packaging
    - Where do we go next? Not just RO-Crate everywhere!
        - How to get more "out there" and gain traction
        - Digital Scholarly Communication -wider than RO: which existing communities to latch onto
        - Relationship to FAIR activities, how do we become part? GEDE Digital Object?
        - Simplifications
        - Demonstrators
        - Integration into platforms, e.g. DataVerse, Mendeley Data
        - Where does PROV go? What role does it play vs metadata?
        - Need for Conceptual model of Research Objects
        - Use case examples of different types of Research Objects, paragraph about each
        -
        - What cool new things can an analysis platform do, if it is RO aware? Since the 'platform is magic' according to Carole. That can be the 'hook' to get users to care that RO's are being generated for them, perhaps behind the scenes...
- Citations:
    - How to handle snapshots/changes in complex objects
    -
- Attribution: Imagine! What does a CV look like that takes into account all "non-traditional" contributorships (which may be part of complex research objects). Needs to be understandable by "management" e.g. for tenure / career progression?
- How to contribute back when metadata is bad, or how to crowd-improve the metadata

- How to include “essentially interactive” objects as part of ROs? Or do these belong in a different type of object?
- Uncertainty is important
- Identifiers for instruments
    - Identifier authorities
    - NIST workshop (Anita de Waard)- NIST wants to develop a Research Data Framework (akin to their Cybersecurity Framework), focusing on outputs from (lab) equipment) Dec 5 & 6 kickoff workshop in DC
    - RDA group - Identifiers for instruments; please send names of attendees for
        - https://www.rd-alliance.org/groups/persistent-identification-instruments-wg
    - RRI for instruments (Anita B)
    - Founded in 2012, Allotrope Foundation is an international consortium of pharmaceutical, biopharmaceutical, and other scientific research-intensive industries that is developing advanced data architecture to transform the acquisition, exchange, and management of laboratory data throughout its complete lifecycle. https://www.allotrope.org/

- Paper on an Ontology for Certainty, Reasoning and Attribution: http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.417.1442&rep=rep1&type=pdf#page=13
- Metadata transactions

Breakout sessions

It might be that two or more people find out they should break out to do a deeper discussion or exploration of some topic/technology during lunch or the unconference slot. Add your ideas below, and sign up if you are interested:

- **RO-Crate schemas** Stian, ...
- **Common Workflow Language and Docker** Stian, Daniel./.
    - Later in the week (Wednesday)
- ..

Collective notes

Please help to add notes and questions from each session. Do include URLs for relevant references and projects.

This is “free for all” and we are very grateful in any help in taking notes and comments there during the workshop. Feel free to also use the Google Docs “Comment” function for side-discussions.

In the Discussion / Future Directions plenary at the end of the workshop we will try to conclude from these notes.

(..)

Welcome by Carole Goble

Carole's slides

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Keynote by Bertram Ludäscher

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Session 1: Packaging

Slides

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Session 2: Credit

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Session 3: Data Life Cycle

Slides

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Session 4: Scientific Workflows

Slides

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Session 5: Reproducibility

I don't like notebooks Joel Grus, Allen Institute for Artificial Intelligence

https://conferences.oreilly.com/jupyter/jup-ny/public/schedule/detail/68282

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Unconference

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Discussion

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