ORCID in repositories
Moving toward universal integration with the ORCID in Repositories Task Force!

COAR Annual Meeting | Lyon, May 2019
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Slides: https://orcid.figshare.com
A brief history of ORCID in repositories...
Repositories have been on our minds at ORCID since the beginning

**Goal:** Help make scholarly comms workflows easier for everyone...enter once/reuse often

Re-entering the same info all over the place? Yuck! Let’s get rid of that!
Where does ORCID fit?

Author disambiguation
Connect iDs to repository author profiles

Discovery
Export to ORCID, so ORCID users and data consumers can access

Ingest
Import new items from ORCID
THEN (2014)

Author disambiguation
Connect iDs to authors/contributors in the repository

Discovery
Export?
Users and data consumers can access?

Ingest
Import new items from ORCID?

Not many systems using ORCID yet, so no one to find things you put there

Not much data in ORCID yet, so nothing to ingest
DSpace (U of Missouri / Atmire)

Item submission

Describe Item

Authors:
Last name, e.g. Smith
First name(s) + "Jr", e.g. Donald Jr

Add
Lookup

Enter the names of the authors of this item below.

Person lookup

Search: Hancock

<table>
<thead>
<tr>
<th>Name</th>
<th>last name: Hancock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hancock, Roeland</td>
<td>first name: Roeland</td>
</tr>
<tr>
<td>Hancock, Yvette</td>
<td></td>
</tr>
<tr>
<td>Hancock, Katy</td>
<td></td>
</tr>
<tr>
<td>Hancock, Steven</td>
<td></td>
</tr>
<tr>
<td>Hancock, Karen</td>
<td></td>
</tr>
<tr>
<td>Hancock, Kenneth</td>
<td></td>
</tr>
<tr>
<td>Hancock, Travis</td>
<td></td>
</tr>
<tr>
<td>HANCOCK, GALEN</td>
<td></td>
</tr>
</tbody>
</table>

Showing 10 results. show more

Batch update author iDs from CSV file

Became part of DSpace v5 (2015)

Images CC BY 4.0 from DuraSpace Wiki
A whole lot has changed since then!
Fancy charts 2014-2019

Live ORCID iDs

<table>
<thead>
<tr>
<th>Year</th>
<th>ORCID IDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>728137</td>
</tr>
<tr>
<td>2015</td>
<td>1000000</td>
</tr>
<tr>
<td>2016</td>
<td>2300000</td>
</tr>
<tr>
<td>2017</td>
<td>3500000</td>
</tr>
<tr>
<td>2018</td>
<td>4900000</td>
</tr>
<tr>
<td>2019</td>
<td>6460000</td>
</tr>
</tbody>
</table>
Increased ORCID adoption in Scholarly Workflows
Adoption in scholarly workflows

- **688** members have an active integration with ORCID
- **74** publishers require ORCID iDs
- **3,412** Publishing sources collect iDs and send them to CrossRef in DOI metadata
- **eduPersonOrcid** attribute included in [eduPerson schema 201602](#)
The result?

More Data

in ORCID
NOW
More things are possible!

Author disambiguation
Connect iDs to repository author profiles

Discovery
Export to ORCID, so ORCID users and data consumers can access

Ingest
Import new items from ORCID
A new generation of repository integrations
User creates/connects ORCID iD to profile

New publications harvested from ORCID & other sources appear as incomplete submissions; user is prompted to log in and complete.

User can choose to allow UNE to update ORCID with any missing publications.
University of New England

iD shown on profile

Items added to ORCID record
User creates/connects ORCID iD to profile

ID shown in all locations where author info is displayed
Users or admins can import records from ORCID

...and export records to ORCID
Well, that’s pretty neat.

...if you’re using ePrints, have vast software development resources, or are some kind of wizard

If not, then what???
ORCID support in repository platforms
(core system features or supported, documented plugin)

- EPrints: None/unknown
- Invenio: Search/import unauthenticated iDs
- DSpace: Collect/display authenticated iDs
- Digital Commons: Import from/export to ORCID
- Fedora Hydra/Samvera: Collect/display authenticated iDs
What can we do?

Let’s get together!

ORCID in repositories Task Force
Aug - Dec 2018

• Define common community needs around ORCID in repository software

• Publish recommendations
Task force participants

15 members from 12 countries

(from a pool of 40+ applicants)
Task force participants

- **Wesley Barry**, TENET, South Africa
- **Paola Galimberti**, University of Milan, Italy
- **Stephen Grace**, London South Bank University, UK
- **Daryl M. Grenz**, KAUST, Saudi Arabia
- **Masaharu Hayashi**, National Institute of Informatics, Japan
- **Salwa Ismail**, Georgetown University, USA
- **Bénédicte Kuntziger/Agnès Magron**, CCSD, France
- **Michele Mennielli**, Duraspace, USA (Chair)
- **Lars Holm Nielsen**, CERN, Switzerland
- **Sheila Rabun**, LYRASIS, USA
- **Andrea Szwajcer**, University of Manitoba, Canada
- **Washington R. de Carvalho Segundo**, IBICT, Brazil
- **Alicia Starr** Avondale College of Higher Education, Australia
- **Irine Tanudjaja**, National University of Singapore, Singapore
- **John Westbrook**, RCSB, Protein Data Bank, USA
Process

- **Aug 2018:** Reviewed JISC ePrints spec
- **Sept 2018:** Prepared draft recommendation
- **Oct/Nov 2018:** Public comment period (~30 participants!)
- **Dec 2018:** Reviewed public comments & prepared final recommendation
- **Feb 2019:** Released final recommendations

[https://doi.org/10.23640/07243.7777274](https://doi.org/10.23640/07243.7777274)
Recommendations

The task force recommends that repository software platforms developed for distribution to others support these ORCID functions:

- Collect ORCID iDs
- Display ORCID iDs
- Exchange data with ORCID
- Include iDs in machine-readable outputs
- Configuration options + reporting tools
Collect ORCID IDs

- **Support collecting authenticated ORCID IDs** which means that users sign into ORCID and authorize the repository to obtain their ID and (optionally) permission to update their ORCID records.

- **Support other ways of obtaining ORCID IDs** including in mediated deposits and bulk uploads by repository managers, as well as automated deposits from other systems.

- **Allow admins to request authenticated IDs** and ORCID record update permission from authors and co-authors, in cases where IDs are missing or have not been authenticated.
Display ORCID iDs

Support displaying ORCID iDs wherever user/contributor information is displayed using one of the options listed in ORCID’s display guidelines:

• iD icon followed by the full iD URI, inked to the iD URI: https://orcid.org/0000-0002-1825-0097
• iD icon, hyperlinked to the iD URI: https://orcid.org/0000-0002-1825-0097
• iD URI, hyperlinked to the iD URI: https://orcid.org/0000-0002-1825-0097
Exchange data with ORCID

- Allow admins and/or users to push/pull data to/from ORCID records
- Push/pull functionality should be configurable. Admins should be able to:
  - Enable/disable the functionality
  - Choose to pull data only for authenticated iD(s) (pushing data requires an authenticated iD)
  - Choose which types of data to push/pull
  - Choose to exchange data on demand (one-time) or automatically, on a regular basis
Exchange data with ORCID

- If the system allows users to control pushing/pulling their own data to/from ORCID, also users to configure settings, including:
  - Enable/disable the functionality
  - Choose to exchange data on demand (one-time) or automatically, on a regular basis
Machine-readable outputs

- Support exposing ORCID IDs in metadata outputs, such as OAI-PMH XML, wherever possible
- Express ORCID IDs according to standards/best-practices whenever possible (RIOXX, OpenAIRE, DCMI, etc)

```xml
<datacite:creators>
  <datacite:creator>
    <datacite:creatorName>Evans, R.J.</datacite:creatorName>
    <datacite:affiliation>Institute of Science and Technology</datacite:affiliation>
    <datacite:nameIdentifier nameIdentifierScheme="ORCID" schemeURI="http://orcid.org">
      1234-1234-1234-1234
    </datacite:nameIdentifier>
  </datacite:creator>
</datacite:creators>
```
Configuration options + reporting tools

- Provide testing, logging and reporting features for administrators
  - Connect to ORCID public OR member API
  - Connect to ORCID production OR sandbox test site
  - Export report of stored ORCID iDs, access tokens, etc

- Provide documentation about ORCID features, for both administrators and end users
What now?

ORCID is working on:

- Engagement and advocacy w/vendors and developers
- Documentation/support for developers implementing recommendations

Look for updates on https://orcid.org/about/news!
What now?

What can you do?

- **Vendors/developers:** Check out the [recommendations](#) and contact ORCID for guidance and support

- **Implementers:** Contact your vendor or open-source community!
Resources

- Task force recommendations: https://doi.org/10.23640/07243.7777274
- Blog post about the recommendations
- Task force charter
Thanks!

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Slides: https://orcid.figshare.com

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