Better Together - ORCID & ROR

ORCID Webinar - April 2025

Tom Demeranville - Product Director, ORCID. **Amanda French**, ROR Technical Community Manager, Crossref

ROR + ORCID

Better Together: ORCID + ROR

April 16, 2025

Amanda French, ROR Technical Community Manager, Crossref

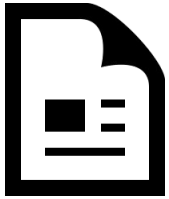
CC BY

ROR refresher

What is ROR?

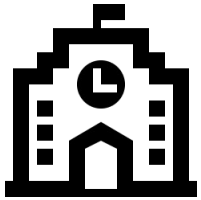
ROR, the Research Organization Registry, is a global, community-led registry of open persistent identifiers for research organizations.

ROR is an established, trusted, widely adopted, no-cost service that is becoming a standard in scholarly communication and scholarly publishing.



DOI for research outputs

ORCID for researchers



ROR for research organizations

https://ror.org/02smfhw86

Virginia Tech

ORGANIZATION TYPES

Education, Funder

OTHER NAMES

Labels

Institut polytechnique et université d'État de virginie (fr)

Instituto Politécnico y Universidad Estatal de Virginia (es)

Aliases

Virginia Polytechnic Institute and State University (en)

LOCATIONS

Blacksburg (GeoNames ID 4747845), United States

WEBSITE

https://www.vt.edu

OTHER IDENTIFIERS

GRID grid.438526.e

ISNI 0000 0001 0694 4940

Crossref Funder ID 100007263

Wikidata Q65379

RELATIONSHIPS

Child Organizations

Virginia Tech - Wake Forest University School of Biomedical Engineering & Sciences

Virginia–Maryland College of Veterinary Medicine

Virginia Tech Transportation Institute

Virginia Agricultural Experiment Station

Related Organizations

Carilion Roanoke Memorial Hospital

Hubbard Brook Long Term Ecological Research

McMurdo Dry Valleys Long Term Ecological Research

Virginia Coast Reserve Long Term Ecological Research

Some record data is not displayed in this view. ***See JSON view for full record data***

Record last modified 2024-12-11. Is there an issue with the data on this record? ***Suggest a change***

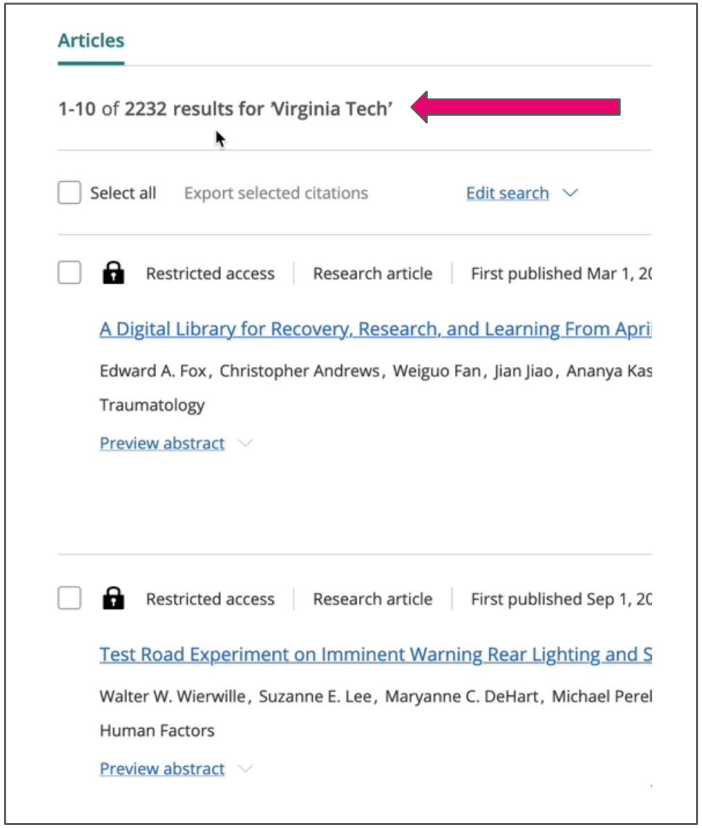
Search and browse ROR records at https://ror.org/search

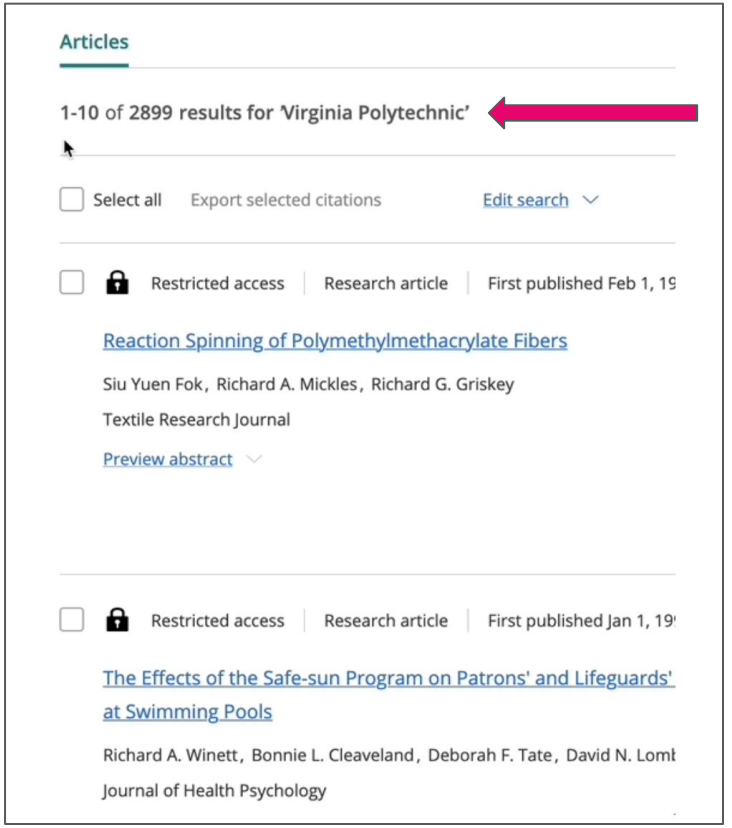
ROR currently includes over 115,000 research organizations from around the world.

All ROR metadata is CC0 and is freely available as JSON & CSV and via a REST API.

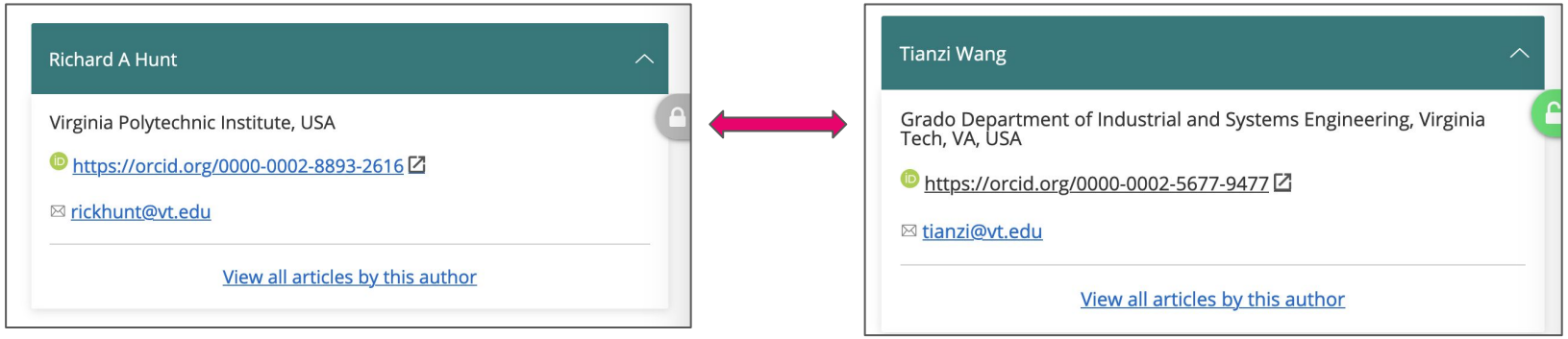
ROR

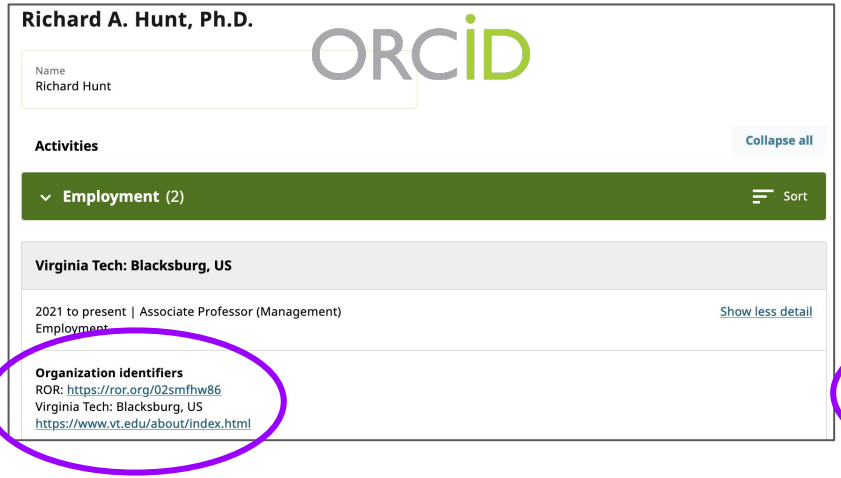
The problem ROR solves



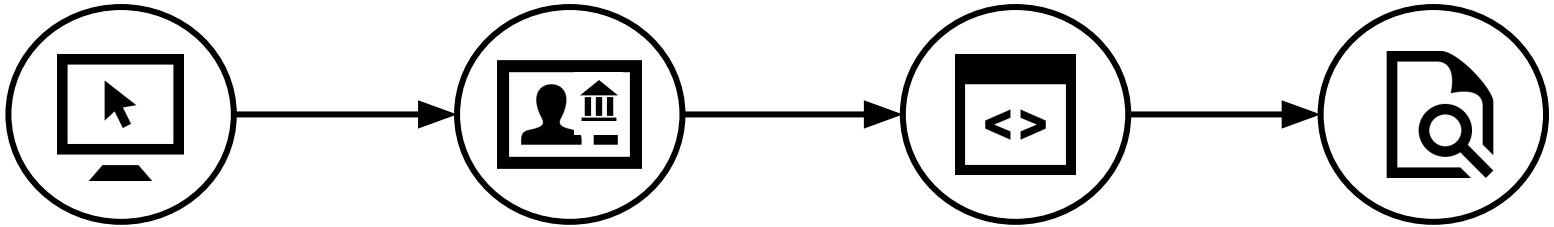


The problem ROR solves





ROR is designed for research workflows



User submits research in a system integrated with ROR

Organization is selected from a ROR-powered controlled list

Shareable metadata includes the ROR ID

Systems use the ROR ID to track research by organization

ROR is noncommercial and sustainable

- ROR is operated as a collaborative initiative by the California Digital Library, Crossref, and DataCite as part of each organization's ongoing operational budget.
- ROR does not depend on grants or on fees, and it cannot be transferred to a commercial entity.
- ROR is committed to following the Principles of Open Scholarly Infrastructure (POSI).

CDL California Digital Library

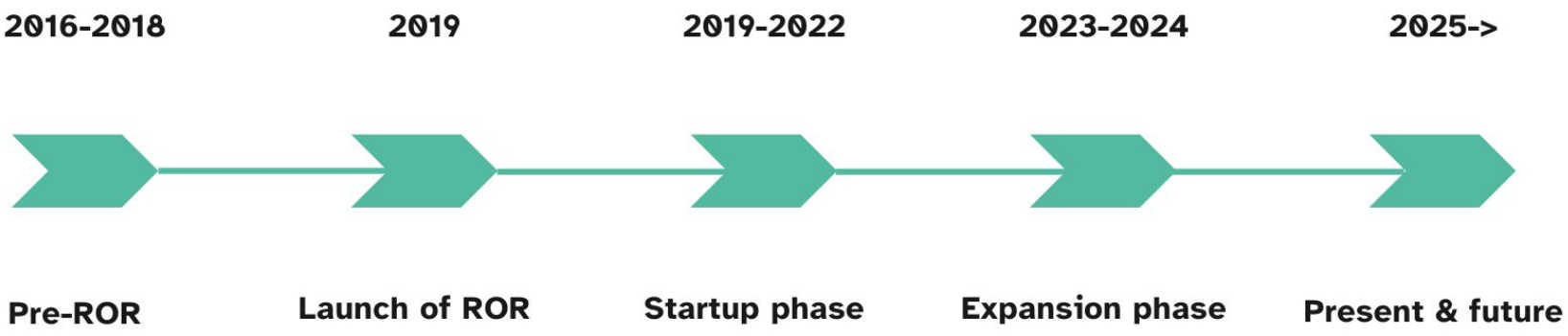
Crossref

DataCite

ROR

ORCID has been a ROR model and supporter

History of ROR



https://ror.org/about/history/

ORCID was crucial in developing ROR

- Between 2016 and 2018, ORCID was a key partner in the "Org ID" initiative, helping define requirements for an open, community-led organization identifier registry
- In 2018, ORCID worked with DataCite and Crossref to draft a proposal for a pilot that met the Org ID requirements
- ORCID, DataCite, Crossref, and CDL formed a Steering Group to implement the pilot, which launched as ROR in January 2019
- More generally, ORCID's success helped educate the research information community about identifiers beyond the DOI, paving the way for adoption of ROR

ORCID adopted ROR in 2021

ORCID Integrates ROR

Home > Blog > ORCID Integrates ROR

By Tom Demeranville, Paula Demain, Dan Dineen | October 22, 2021

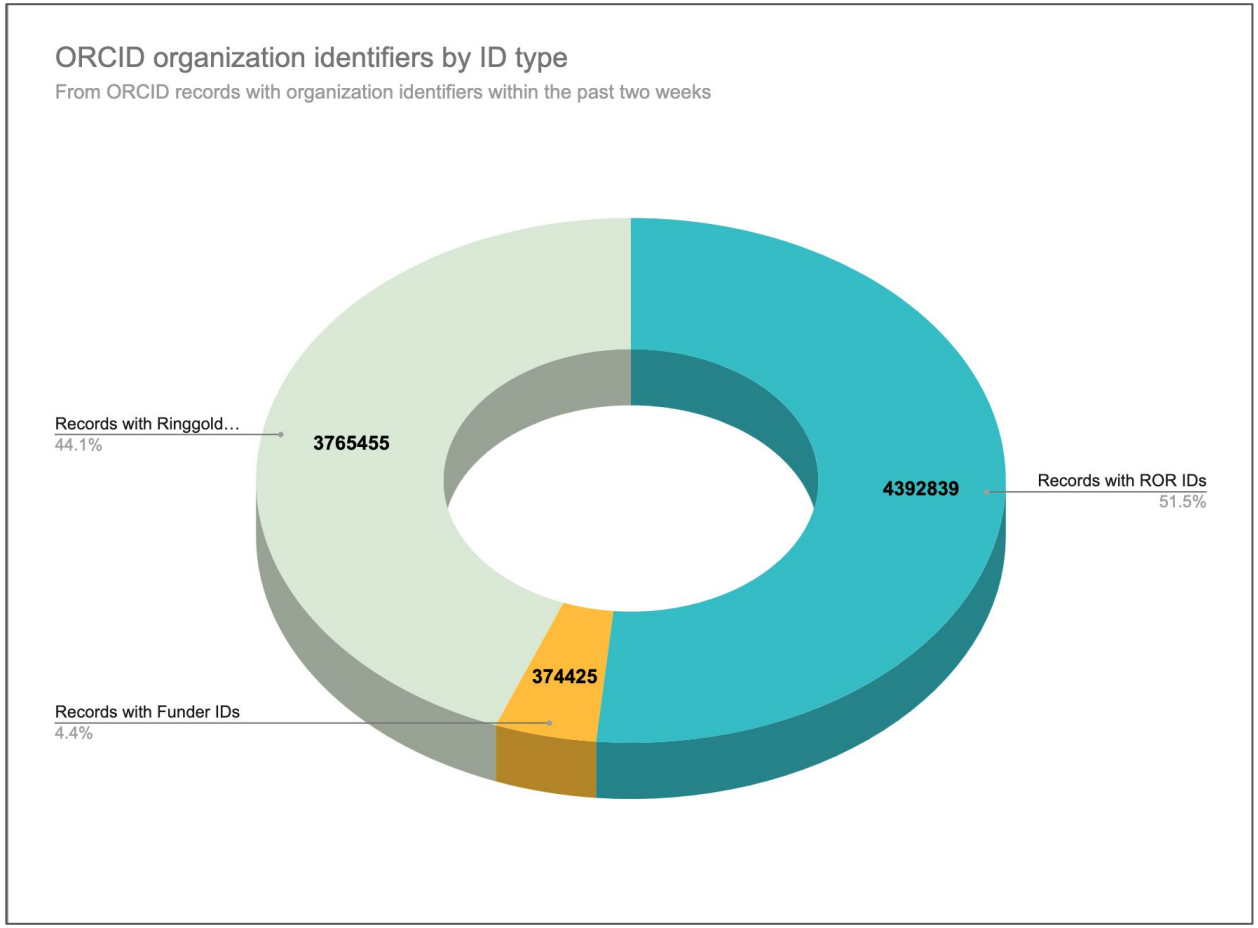
https://doi.org/10.71938/jspc-9949

Also posted at https://info.orcid.org/add-research-institution-identifiers-with-ror/

Add Research Institution Identifiers with ROR!

As part of our ongoing commitment to increase value to our researchers and our members, we are pleased to announce that the **Research Organization Registry (ROR)** has been added to the ORCID Registry as a disambiguated Organization ID. ROR can now be used with the API and our Affiliation Manager to record research institution identifiers and metadata, thus making it easier to track the impact of institutional research. ORCID's own staff affiliations have now been updated to include a ROR ID!

https://doi.org/10.71938/jspc-9949



More than half of ORCID records now have at least one ROR ID

https://bit.ly/ror-doi-orcid-stats

ORCID is a sustaining supporter of ROR – thank you!

ORCID
Connecting research and researchers

Sign in to ORCID | Don't have an ORCID Record yet? Register with ORCID | English

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ORCID Increases Financial Support for ROR

JULY 18, 2023 BY ÉLAN YOUNG

As use cases build in the global research ecosystem around persistent identifiers (PIDs) for research organizations, ORCID has recently increased its financial commitment to the first and only openly available organization identifier—Research Organization Registry (ROR).

Like ORCID, ROR operates an open, community-driven, noncommercial PID registry that is part of the interconnected network of global scholarly infrastructure. However, instead of disambiguating people as ORCID does, ROR disambiguates institution names, captures affiliations, links affiliation metadata to research outputs, and exchanges affiliation information across scholarly systems, making it an indispensable component of a research ecosystem that connects researchers with their research. ROR data is freely and openly available for anyone to use. As a demonstration of our intention to help ensure ROR's success well into the future, ORCID recently increased its financial support of ROR by contributing $100,000 towards its sustenance and growth. We expect to be able to continue our annual support of ROR at this level for the foreseeable future.

https://info.orcid.org/orcid-increases-financial-support-for-ror/

ORCID
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ORCID Renews Support of ROR to Maximize the Quality of Organization Information for Researchers

SEPTEMBER 24, 2024 BY ÉLAN YOUNG, AMANDA FRENCH

In recent years, the research world has shifted rapidly toward promoting the adoption of FAIR data and encouraging the use of persistent identifiers (PIDs) for a more open and interconnected research ecosystem. While there are many different types of PIDs in use, there are generally considered five key PID types:

- PIDs for people, i.e. researchers and contributors (e.g. ORCID iDs)
- PIDs for digital objects such as publications (e.g. DOIs)
- PIDs for research activities (e.g. RAiDs),
- PIDs for grants and funding awards (e.g. Grant DOIs) and
- PIDs for research organizations (e.g. ROR IDs)

In this post, we'll discuss what ROR is, and why and how ORCID supports ROR, the Research Organization Registry as our preferred PID for organizations.

https://info.orcid.org/orcid-renews-support-of-ror-to-maximize-the-quality-of-organization-information-for-researchers/

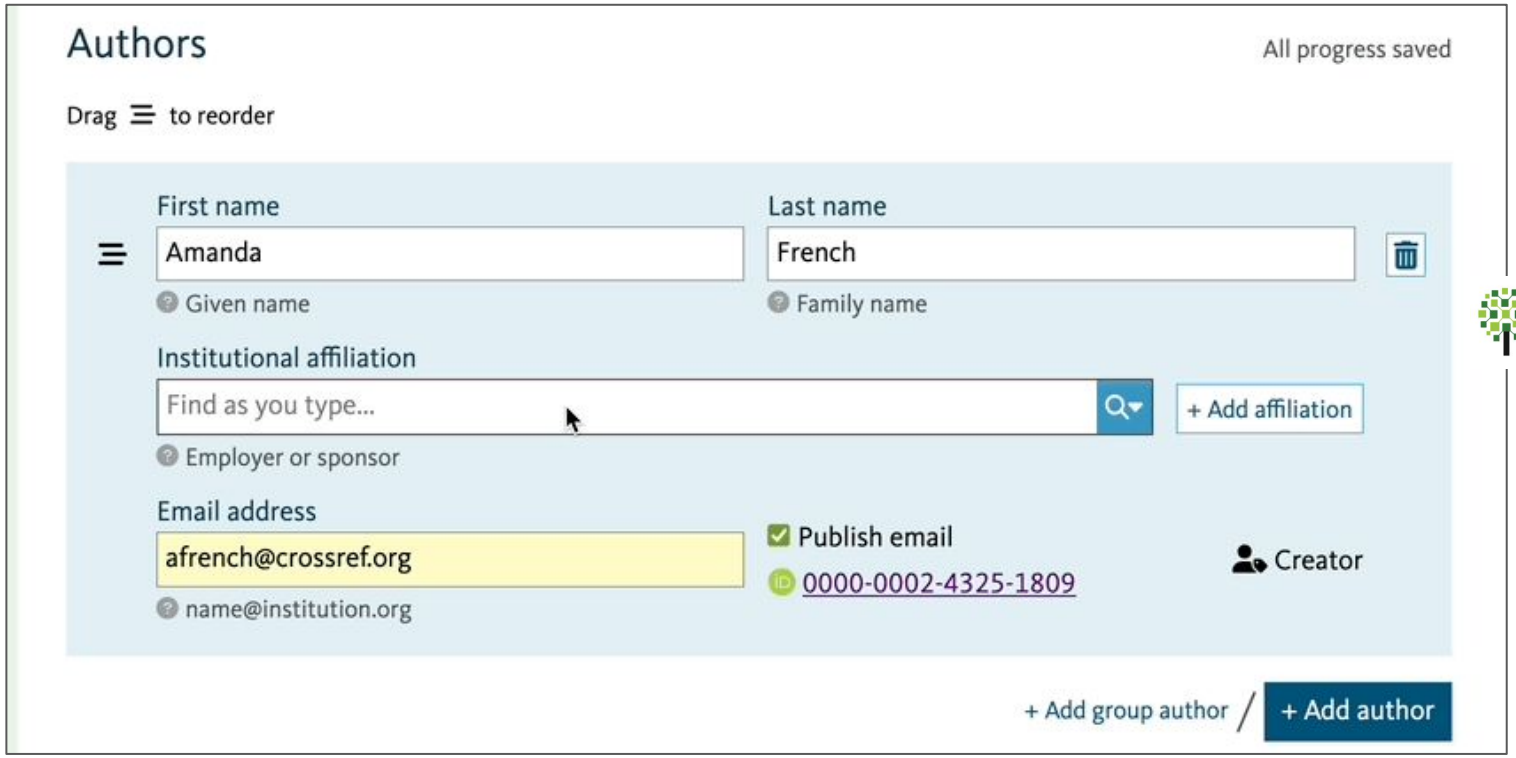
Many systems use ROR + ORCID

Key systems use ROR

- Core infrastructure services
  - Crossref
  - DataCite
  - ORCID
- Knowledge graphs and large indexes
  - Web of Science
  - OpenAlex
  - The Lens
  - Europe PMC
- Repository systems
  - Dryad
  - Zenodo
  - Figshare
  - DSpace
- Publishing systems
  - Open Journal Systems (OJS)
  - Scholastica
  - Atypon (forthcoming)
- … and more!

https://ror.org/community/#adopters

Systems use ROR for affiliation lookups

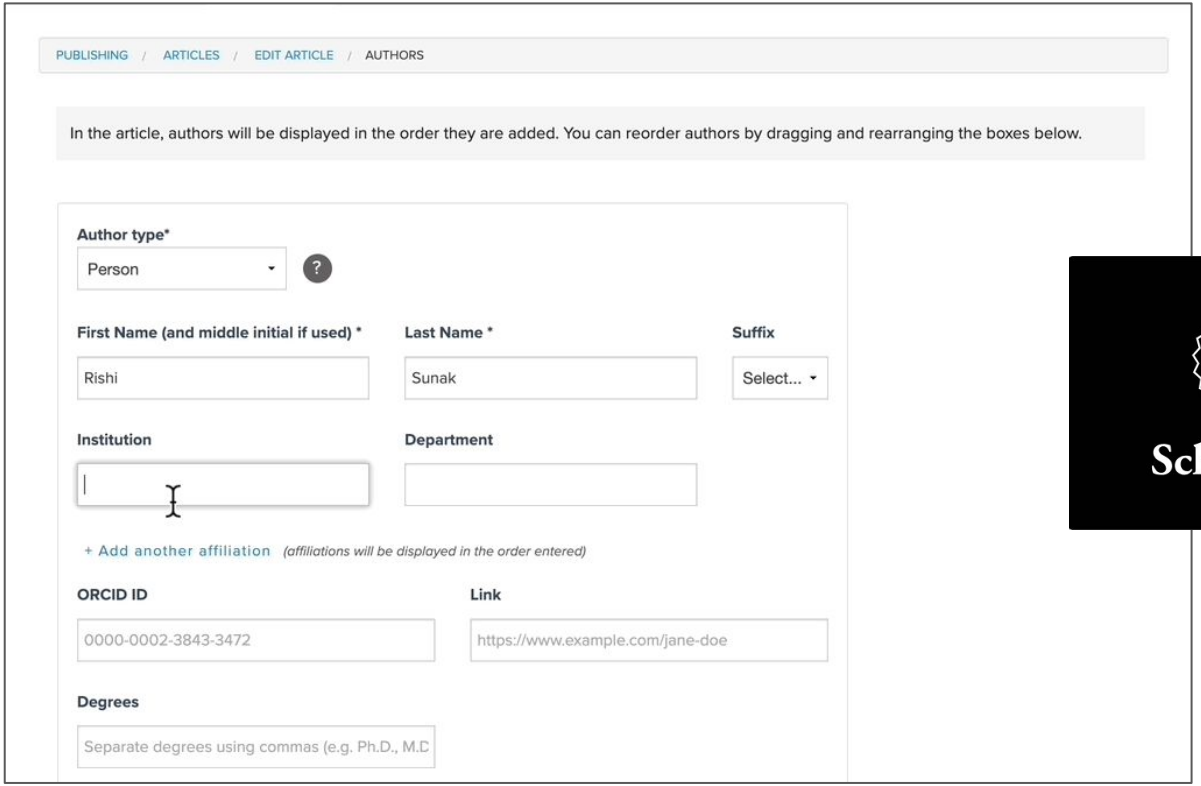


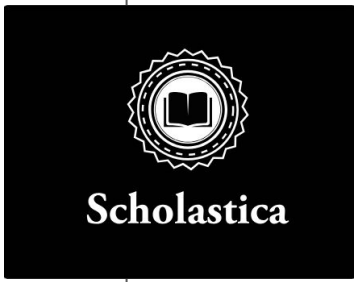
DRYAD

ROR invisibly powers the "Institutional affiliation" lookup in Dryad, and users also log in with ORCID

ROR

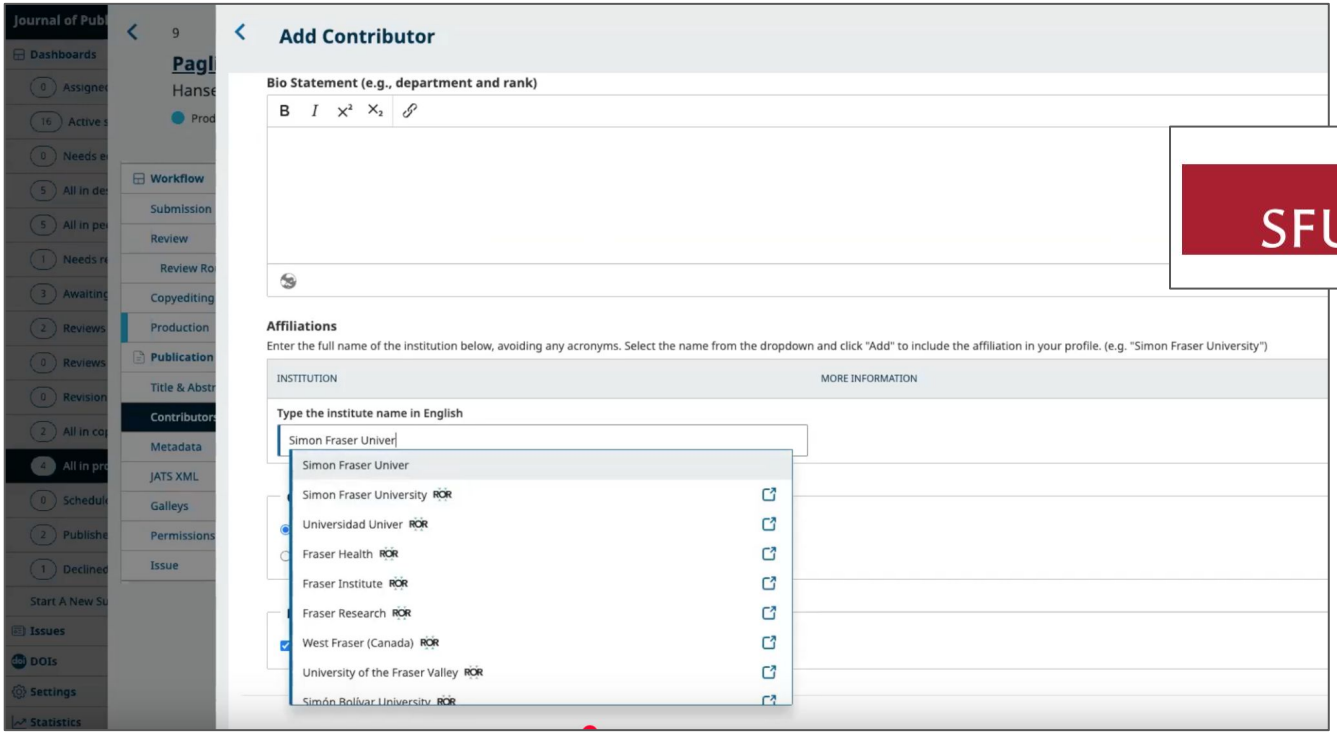
Systems use ROR for affiliation lookups





ROR invisibly powers the "Institution" lookup in Scholastica, and there is also a field for author ORCID iD

Systems use ROR for affiliation lookups



SFU PKP PUBLIC KNOWLEDGE PROJECT

ROR "Institution" lookups for Contributors will be a core feature of OJS 3.5, due out later in 2025

Systems extract ROR IDs from ORCID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  <title xml:lang="en-us">Highlights from the 2025 ROR Annual Community Meeting</title>
  <id>https://doi.org/10.71938/9f0g-9791</id>
  <link rel="alternate" href="https://ror.org/blog/2025-02-11-ror-annual-meeting-highlights/" />
  <published>2025-02-19T00:00:00+00:00</published>
  <updated>2025-04-09T12:48:37-04:00</updated>
  <author>
    <name>Amanda French</name>
    <uri>https://orcid.org/0000-0002-4325-1809</uri>
  </author>
  <category term="Event Recaps" />
  <content type="html" xml:base="https://ror.org/" xml:lang="en-us">
  <summary type="html" xml:base="https://ror.org/" xml:lang="en-us">
    Highlights of the 2025 ROR annual meeting sessions, including the Community Update, the
    panel on National PID Policies and Practices, and the session on Successes and
    Opportunities for ROR in the Asia-Pacific Region.
  </summary>
</entry>
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  <author>
    <name>Adam Buttrick</name>
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  </author>
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  <summary type="html" xml:base="https://ror.org/" xml:lang="en-us">
    OpenAlex has added a new metadata matching strategy co-developed by ROR and Crossref to its
    affiliation matching processes: ROR is also investigating the prospect of incorporating
    this new matching strategy into the ROR API in 2025.
  </summary>
</entry>
```


Affiliated with Crossref

Affiliated with CDL / UC Office of the President

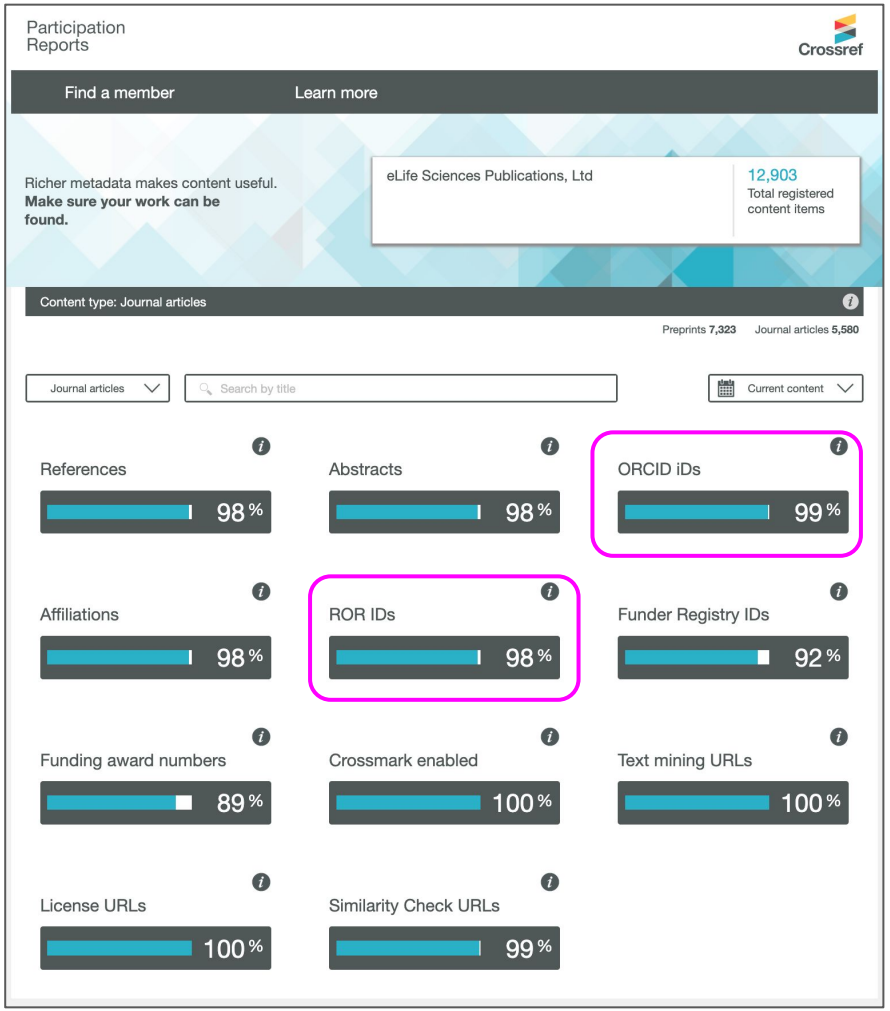
Author affiliations

- ☐ University of California Office of the President — 45
- ☐ Crossref — 31
- ☐ DataCite — 7

The Rogue Scholar

https://rogue-scholar.org

ROR



ROR and ORCID are key measures for Crossref metadata

Crossref Participation Reports - https://crossref.org/members/prep

ORCID

Let’s chat about ORCID and ROR

1. Intro to ORCID
2. Connections
    a. Affiliations and activities
    b. Email domains
3. Use cases
    a. Reporting
    b. Research Integrity
4. Q&A

ORCID's mission is to enable transparent and trustworthy connections between researchers, their contributions, and their affiliations by providing a unique, persistent identifier for individuals to use as they engage in research, scholarship, and innovation activities.

We've been doing this since 2012

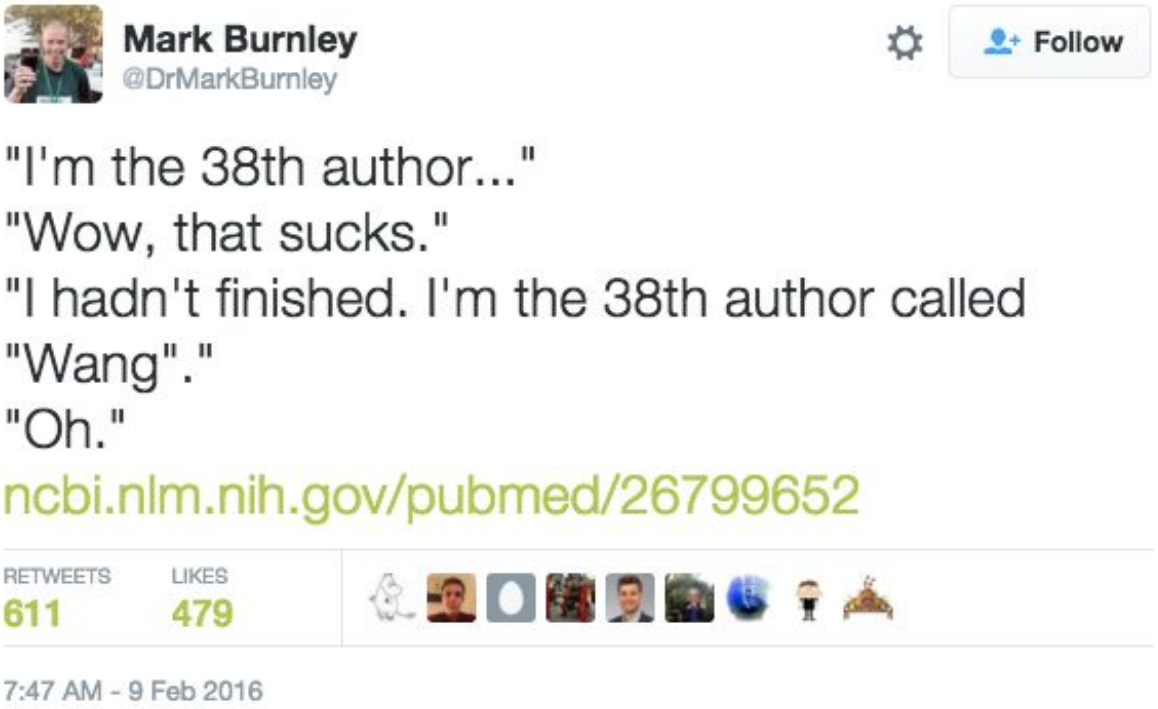
ORCID provides three main services

The ORCID iD
A unique, persistent identifier free of charge to researchers

An ORCID record
A digital cv/profile connected to the ORCID iD, that can include employment, education, funding, peer review, research output and other metadata

The ORCID APIs
A set of *Application Programming Interfaces* (APIs), as well as the services and support of communities of practice enabling interoperability between an ORCID record and member organizations

ORCID solves name ambiguity *for people*



ORCID solves name ambiguity *for organisations*

19 December 2024

The renaming of two universities in the north-west of England has prompted a backlash from other institutions in the area, who say they are concerned about potential confusion.

The University of Central Lancashire (Uclan), which is based in Preston, will change its name to the University of Lancashire.

Meanwhile, the University of Bolton is to be renamed the University of Greater Manchester.

The Office for Students (OfS), which is the independent regulator of higher education in England, approved both rebrands earlier.

However, the University of Lancaster, which is based 20 miles away from Uclan, said it was "disappointed" at the ruling after submitting "evidence pointing at brand confusion with the name, particularly among employers and international students".

The University of Manchester, based about 15 miles away from the Bolton institution, also described the latter's name switch as "very misleading and confusing".

https://www.bbc.co.uk/news/articles/c623z59x8zeo

ORCID and ROR are Persistent Identifiers (PIDs)

Globally unique

Each PID resolves to one entity, be it a dataset, person, journal article, project or book.

They uniquely identify things.

Persistent

The ‘P’ in PID. Persistent identifiers stick around. They’re not reassigned, they’re well governed, and technically resilient.

They’re stable and reliable.

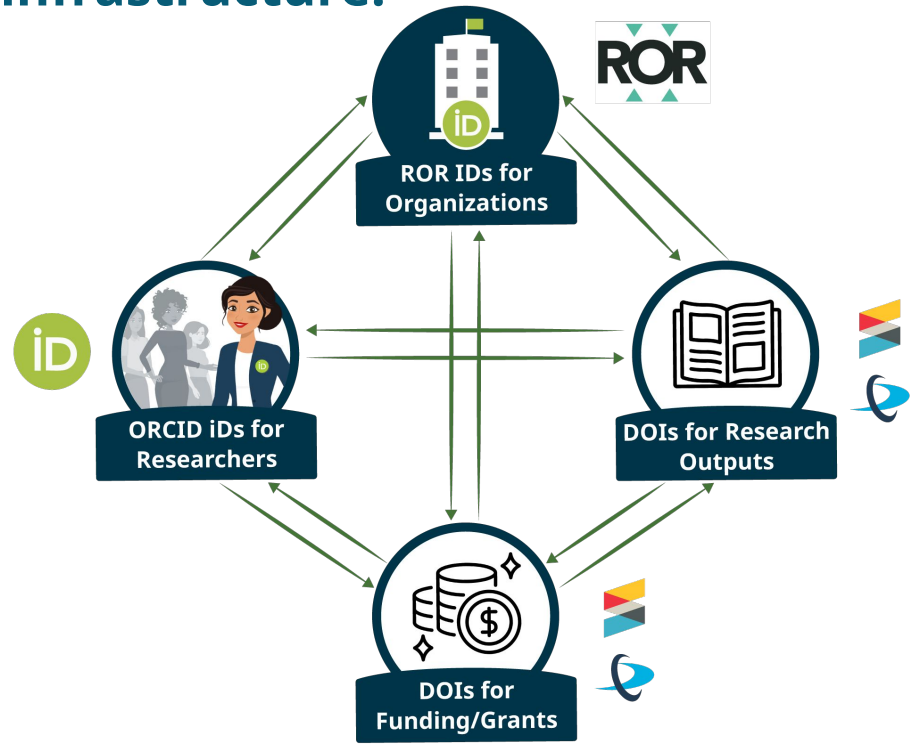
Resolvable by humans *and* machines

PIDs are easily made into URLs,
with landing pages and underlying metadata.

They’re FAIR (Findable, Accessible, Interoperable, and Reusable).

Persistent identifiers (PIDs) and their associated metadata are the building blocks of open research infrastructure.

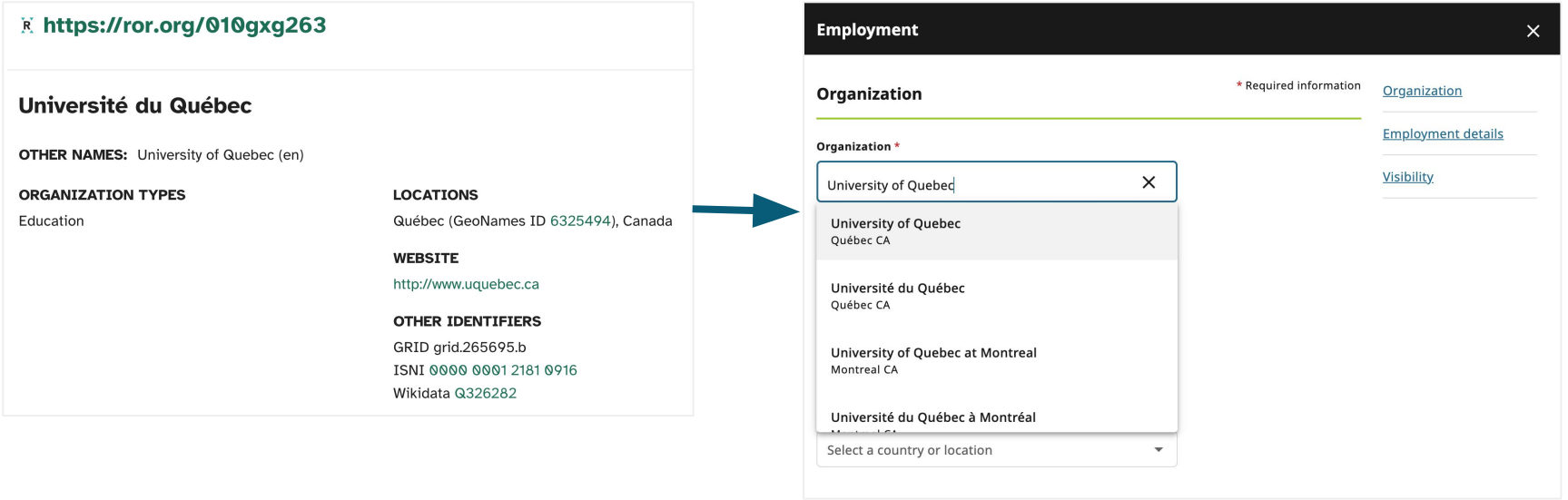
- PIDs enable entities in the research ecosystem (people, places and objects) to be **uniquely identified** and **connected**, to create **reliable links** between them.
- When using PIDs, metadata about **organizations**, **people** and **objects flows reliably** between systems/platforms, forming the building blocks of an open research infrastructure.



Connections

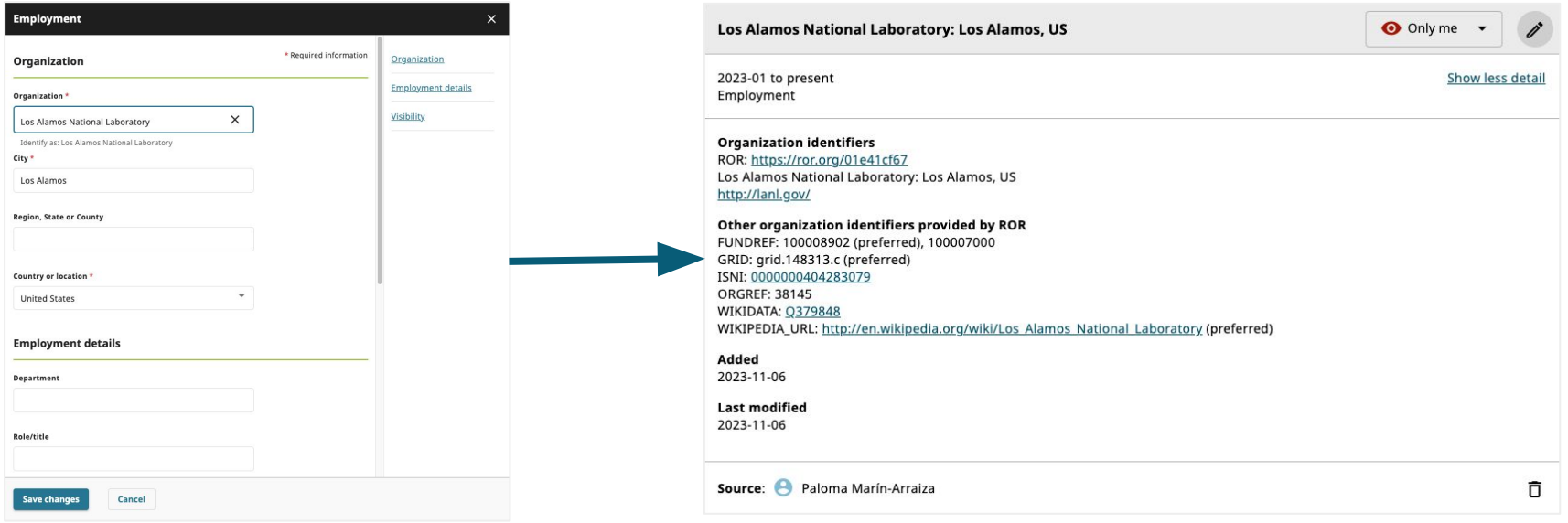
1. ROR data helps users find and enter their affiliations

Researchers can find their affiliation using any language or acronym that's in the ROR data



2. ORCID uses ROR IDs as the default organisation ID

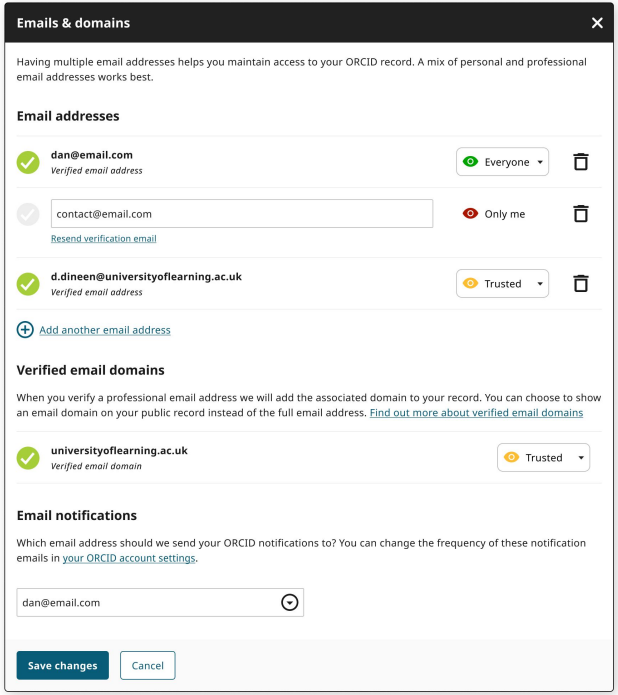
When researchers add affiliations and professional activities to their record, ROR IDs are used and shared with other ORCID users



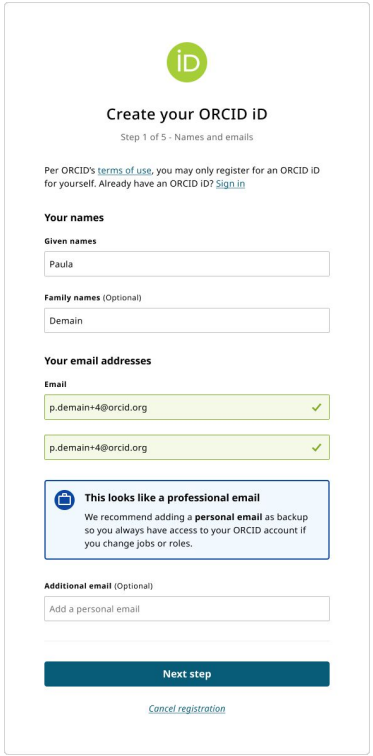
3. Researchers can share professional email domains

- We processed the ROR datafile to match email domains to ROR IDs.
- Researchers that verify their email address can share their professional email address as a trust marker on their ORCID record.

This provides the ability for researchers to add a **'trust marker'** to their record that can be used to help in decision making across different workflows

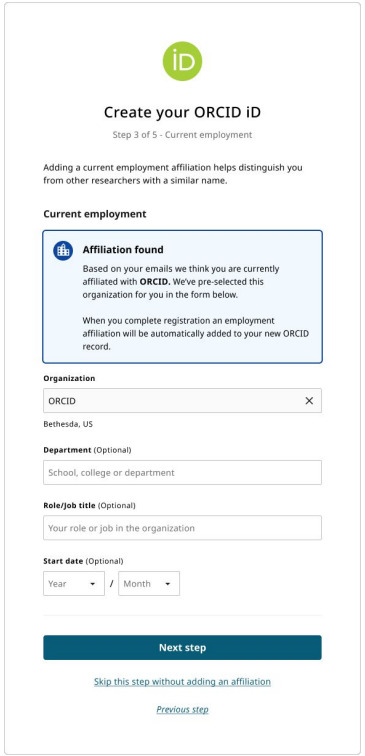


4. Email domain data makes registration easier



Step 1

We identify 'Professional' email addresses, and prompt users to include both a personal and professional email address when creating their record



Step 2

We match researcher email domains to ROR IDs and suggest affiliations when creating records

5. ORCID member organizations add validated org info

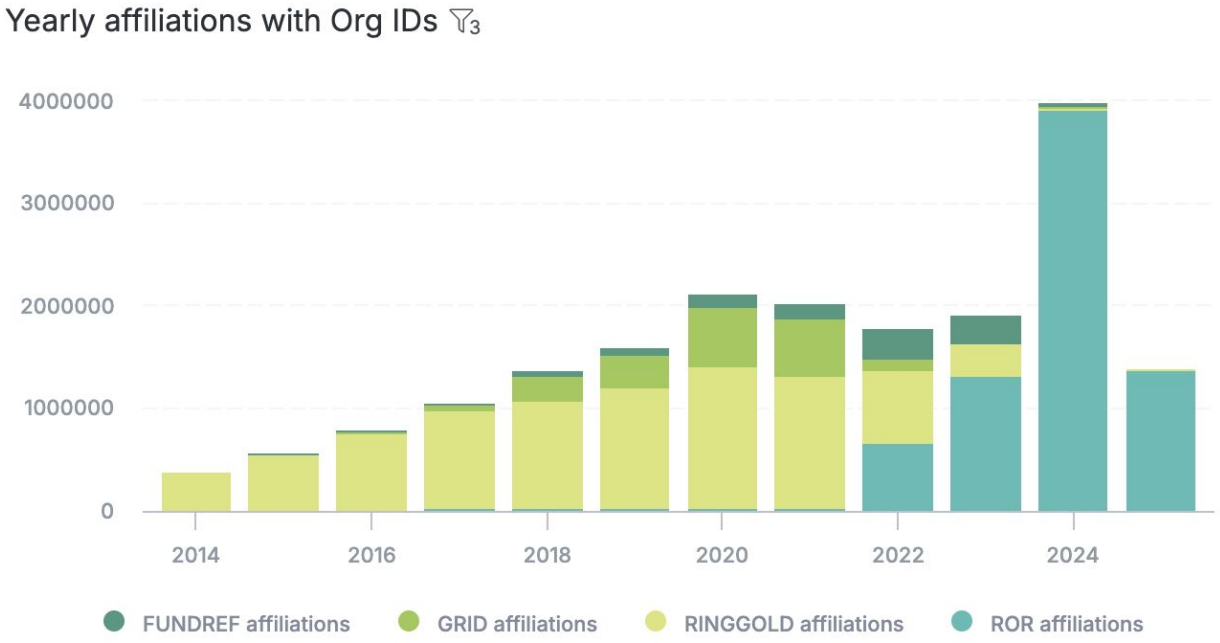
When an ORCID member updates an ORCID record, they can include ROR IDs for organisations:

- Research organisations add affiliations
- Funders add funding items
- Publishers add editorships and reviews

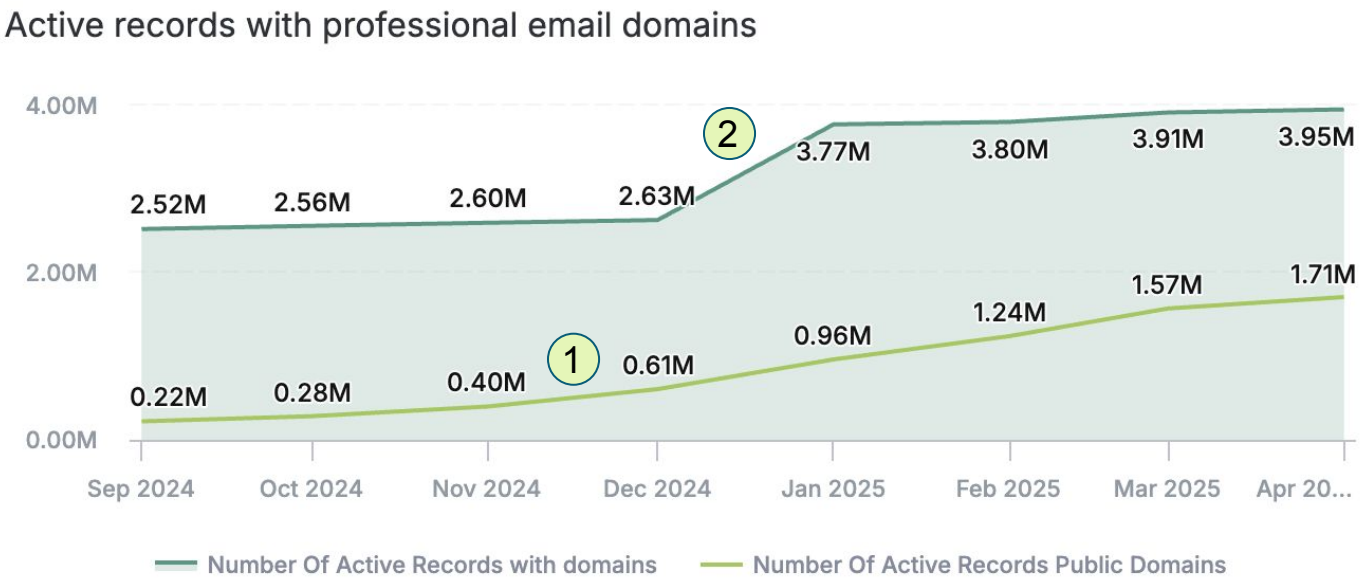
These provide **'trust markers'** that can be used to help in decision making.

Result - **ROR affiliations are growing**

- **7.3 million** affiliations
- **5.1 million** records associated with a ROR
- **75,000** ROR IDs in use
- In 2024 we doubled the number of affiliations added!



Result - **Researchers register and share their domains**



1 Improved suggestions interface

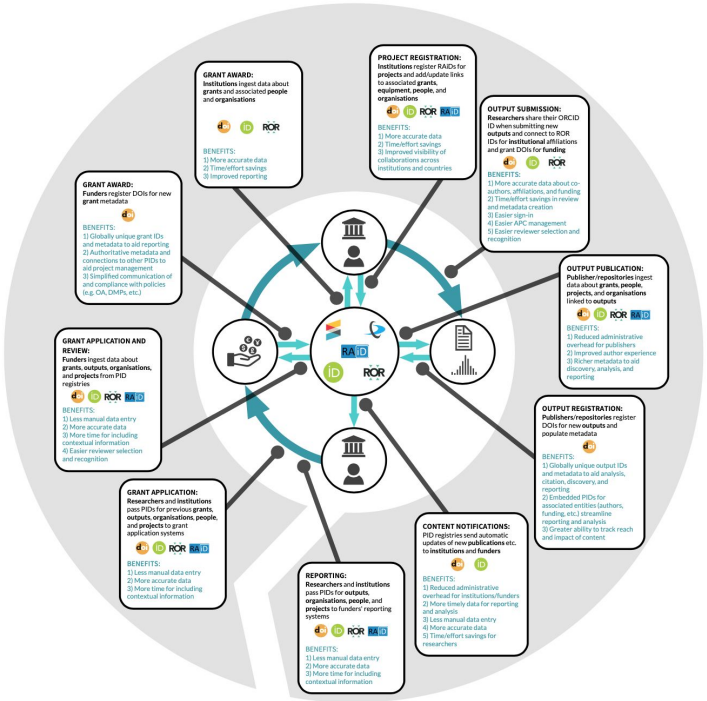
2 Improved matching algorithm

Use cases

ORCID and ROR data are re-used by many systems

- They’re used to help automatically fill out forms and reduce admin burden
  - During submission, grant applications and interviews
- They’re used to aid reporting and discovery
  - Ingested by funder, research organisation and publisher systems
  - Ingested by aggregation systems
  - Embedded in publication metadata
  - Used to provide reporting for ORCID members
  - And of course available in our API and data files for other uses
- They’re used to aid Research Integrity checking
  - Human readable RORs and associated provenance information in our UI
  - Available as trust markers in our summary UI
  - Processed by other integrity checking tools via our APIs

The promise of PIDs



PIDs can be used throughout the research lifecycle. From grant application, review and award, during the research phase, and all the way through to publication, reporting outcomes and reuse.

- PIDs delivers value at every stage… if implemented
- ORCID, DOIs and RORs are mature and ubiquitous… RAID, Grant IDs etc are catching up
- We're on a journey… and our success depends on the community.

It's estimated that ubiquitous priority PIDs to provide automation and remove the need to re-key data could save the UK higher education sector £45 million over a five-year period, and Australia A$24m dollars a year.

Credit: Brown, Josh, Jones, Phill, Meadows, Alice, Murphy, Fiona, & Clayton, Paul. (2021). UK PID Consortium: Cost-Benefit Analysis