ORCID: Connecting the Research Community

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Introductions

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Agenda

1. What is ORCID?
2. ORCID US Community Consortium
3. Research Impact & Global Connections
4. ORCID for Research Administrators
5. Questions
What is ORCID?
ORCID’S VISION IS A WORLD WHERE ALL WHO PARTICIPATE IN RESEARCH, SCHOLARSHIP, AND INNOVATION ARE UNIQUELY IDENTIFIED AND CONNECTED TO THEIR CONTRIBUTIONS AND AFFILIATIONS ACROSS TIME, DISCIPLINES, AND BORDERS.
History

- ORCID was first announced in 2009
- A collaborative effort by the research community
  "to resolve the author name ambiguity problem in scholarly communication"
- Independent nonprofit organization
- Offering services in 2012
An non-profit organization that provides:

1. ORCID iDs to people
2. ORCID records for people
3. Infrastructure to share research data between organizations
ORCID for Researchers
Sofia Maria Hernandez Garcia
ORCID iD
https://orcid.org/0000-0001-5727-2427
ORCID Record:

Sofia Maria Hernandez Garcia is used for testing and demonstrating ORCID records.

**Biography**

New Arizona State University: Sedona, Arizona, US
2015-09 to present | Associate Professor (Department of Geography)

**Education and qualifications (3)**

- London School of Physics: London, GB
  2016 to 2018 | PhD (Computer Science)

- Universidad Politécnica de Madrid: Madrid, Comunidad de Madrid, ES
  2008-09 to 2012 | BA Computer Science

- University of Kingston: Kingston, JM
  2010 to 2012 | UK Design Certificate (User Experience)
## ORCID Record:

<table>
<thead>
<tr>
<th>Faculty profile webpage</th>
<th>@sofiamhg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>United States</td>
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<tr>
<td>Other IDs</td>
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<tr>
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<td>A-123456</td>
</tr>
<tr>
<td>ResearcherID:</td>
<td>L-8716-2018</td>
</tr>
<tr>
<td>eScientist:</td>
<td>0000-0001-5727-2427</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:s.garcia@orcid.org">s.garcia@orcid.org</a></td>
</tr>
</tbody>
</table>

### Works (3 of 3)

1. **CASRAI and ORCID: Putting the Pieces together to Collaboratively Support the Research Community**
   - Procedia Computer Science
   - 2014 | journal-article
   - DOI: 10.1016/j.procs.2014.06.045
   - Port of ISSN: 1877-0509
   - Source: Sofia Maria Hernandez Garcia via Crossref Metadata Search

2. **ORCID Annual Public Data File, 2013**
   - 2013 | data-set
   - DOI: 10.14454/07243.2013.001
   - Source: DataCite

3. **ORCID: a system to uniquely identify researchers**
   - Learned Publishing
   - 2012-10-01 | journal-article
   - DOI: 10.1087/20120404
   - Port of ISSN: 0953-1513
   - Source: Sofia Maria Hernandez Garcia via Crossref Metadata Search
What is ORCID?

https://vimeo.com/97150912
ORCID for Research Organizations
1) Researcher creates ORCID iD
2) Populates record

All records are saved in the ORCID Registry

API Transfer Member data to your CRIS System
API Technology to Transfer Data

ORCID Registry

ORCID API

CRIS System
Connect your CRIS with ORCID

- Atlas s2id
- Converis
- Digital Measures
- Elements
- Faculty180
- InfoEd
- IRMA
- Pure

- DSpace CRIS
- Vivo
- Haplo
- Worktribe
- Fundanet
ORCID for Organizations

- **Publisher**: Assert authorship
- **Employer**: Assert affiliation
- **Funder**: Assert award

CONNECT COLLECT

[Diagram showing the relationship between ORCID for Organizations]
Written to ORCID records

- 53,319,442 works entries in ORCID registry as of April 1, 2020
- 47,487,703 of those works have DOIs
- 37,449,239 of those works were written to ORCID by member organizations via ORCID API

Top organizations adding works:
- Scopus - Elsevier (17,281,548)
- ResearcherID (5,077,560)
- Crossref (3,290,058)
- Europe PubMed Central (2,557,994)
- Crossref Metadata Search (2,041,706)
- INSPIRE-HEP (934,136)
- CIÂNCIAVITAE (821,728)
- Publons (721,903)
- NASA Astrophysics Data System (433,781)
- Multidisciplinary Digital Publishing Institute (274,081)
- DataCite (169,166)
- University of Helsinki (156,106)
- University of Hong Kong (141,012)
- BASE - Bielefeld Academic Search Engine (136,232)
- New York University (104,645)
1. Integrating ORCID into the research grant lifecycle.

1. Engages funders to use persistent identifiers to automate and streamline the flow of research information between systems.

2. Goal: transparency and reliability of research information.
The ORBIT Funder Working Group therefore makes the following recommendations:

- Funders, publishers, and identifier registries should work together to develop, implement, and socialize workflows that use identifiers to create and share transparent connections between people, funding, and research activities in grant and publication workflows.

- Funder reporting systems should implement digital reporting workflows that reduce reporting burden, by enabling researchers to populate web forms with information from other systems, including ORCID records, without rekeying or manual data entry.

- Funders should partner with publishers to leverage identifiers for organizations, grants, and people, to enable compliance with funder open access and data-sharing requirements.
Funding in ORCID

- ORCID iDs with funding activities (227,090)
- Total funding activities (798,972)
- Funding activities with unique organizations (222,217)
8.3 million + researchers have an ORCID iD

1,150 + organizational members

24 ORCID consortia
Two US ORCID Consortia

ORCID US Community Consortium
https://www.lyrasis.org/Leadership/Pages/orcid-us.aspx

US Government ORCID Consortium
www.osti.gov/doe-orcid-consortium
ORCID US Community Consortium
ORCID US Community Consortium

- National consortium for institutional ORCID membership, formed in 2018
- Reduced ORCID membership fee ($4,300/year)
- Community of practice around ORCID in the US
ORCID US Community: 132+ Member Organizations

https://orcid.org/members/001G000001wND7XIAW-lyrasis
Institutional ORCID Stakeholders

What systems are being used across campus? Who are the stakeholders?
ORCID for All Disciplines/Contributions

- STEM has led the way so far
- Arts & Humanities, Social Sciences
- Law Schools - US News “Scholarly Impact” rankings
ORCID = Central Hub

- ORCID is a central hub for recording data about affiliations & activities
- Data within ORCID is interoperable
Benefits of ORCID for Research Institutions

- **Uniquely identify** researchers
- **Streamline** reporting workflows
- **Assert** trustworthy affiliations & activities
- **Save** time & reduce administrative burden
Uniquely **Identify** Researchers

- **Sofia Maria Hernandez Garcia**
- **S. Hernandez Garcia**
- **S. M. Garcia**
The Value of Using Unique Identifiers for Researchers

What’s in a Name?
Most names are not unique

- Many people have the same name
- Names may change through marriage or other circumstances
- People use different versions of their name during their career
Benefits of ORCID for Research Institutions

- Uniquely **identify** researchers
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- **Save** time & reduce administrative burden
Streamline Data Collection for Reporting & Assessment

Research Institution

CRIS System

Reading data from ORCID record

Researcher ORCID record

iD
Benefits of ORCID for Research Institutions

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Assert trustworthy affiliations & activities
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Save Time & Reduce Administrative Burden

- Use ORCID as a central hub for storing researcher info
- Transfer data between ORCID/Institutional Systems
  - Click of a button vs. Filling out forms over and over again
- Example: Faculty180 or other Research Information Management Systems
Save Time & Reduce Administrative Burden

- Use ORCID as a central hub for storing researcher info
- Transfer data between ORCID/Institutional Systems
  - Click of a button vs. Filling out forms over and over again
- Example: SciENcv biosketch platform (NIH & NSF)
Evidence of Institutional Value
Examples of time/staff savings achieved by implementing ORCID from around the world

UK: 0.2 – 0.4 FTEs per institution\(^1\)
Portugal: 100,000 researcher hours per year\(^2\)
Australia: 15-30 minutes per grant application\(^3\)

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2. Cátia Laranjeira, FCT - Fundação para a Ciência e a Tecnologia 2017
3. Australian Research Council governance meeting, September 2018

"Having ORCID iDs for most of our researchers has helped in providing authoritative accounts in our various databases, ensuring accuracy in reviewer identities, and helping editors find reviewers and check expertise."

—Brooks Hanson, Executive Vice President, Science, American Geophysical Union
Research Impact & Global Connections

- Persistent, trusted, digital identity impacts researcher evaluation
- ORCID is the most-used identifier across the globe for asserting online identity
- Stronger digital identity leads to more research engagement

Scientific migrations: a view from ORCID

Although the data set overrepresents some EU countries and underrepresents China, analysis reveals intriguing migration patterns. For example, about a third of those who earned their Ph.D. in the United Kingdom were living in another country by 2016. But only about 15% of Ph.D.s from other EU nations migrated away. Hover over the interactive chord diagram to see migration flow between regions.


ResearchGraph: Melroy Almeida, Australian Access Federation
https://public.tableau.com/profile/melroy#/
When research contributions are findable, centrally located, and linked to the individuals involved via ORCID:

- Data and deliverables can be more easily shared and re-used
- Researchers can find each other and make connections
- Researchers get recognition for their work
Researcher Recognition

- Rescognito.com = ORCID-based platform that allows individuals and institutions to recognize individuals for multiple types of contributions
Visualization of Rescognito Open Ledger for Richard Wynne

Richard Wynne

Total Recognizers (including self): 59
Total COGs Received: 1315
Total COGs Given: 165
Total Self-Claimed COGs: 65

Recognized For:

- Alison McGonagle-O'Connell
- Anthony Alves
- Jason Ronallo
- Jan Dvořák
- Veronica Showers
- Justin White
- Ellen Dubinsky
- Michael Di Natale
- Allison Symulevich
- Laura J. Wilkinson
- Jon Tennant
- Wendy Taylor
- Robert Scott
- Cristóbal Urbano
- Mitchell Brown
- Marija Tomečak
- Christina Tort
- Doralyn Rossmann
- Elizabeth Krznarik
- Izis
- Elizabeth Whipple
- Ted Habermann
- Suze Kundegerg
- Piez Rojas
- Tan-Park

Researcher Recognition

Visualization of Rescognito Open Ledger for Richard Wynne

Richard Wynne
https://orcid.org/0000-0002-9217-0407

Total Recognizers (including self): 59
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Recognized For:

Rescognito

PIDapalooza

Sheila Rabun

Jason Ronallo
ORCID for Research Administrators
The Life of a Research Administrator
How can ORCID help?

• ORCID iDs are unique identifiers for researchers
  • Think of all the systems where data “lives”
  • How easy is it to get that data to one place? (trick question!)

• Questions that need data as answers
  • Targeted investments, strategic planning

• Sponsored projects & Reducing faculty burden
Sponsored Projects

- Proposal Applications & Institutional Profiles
  - What could the future look like?

- Grant application preparation
  - Share ID when interacting with funder / published / employer systems
  - Updates ORCID with information to interact with other research systems
Systems & Access Policies

• Sponsor systems
  • National Institutes of Health
  • National Science Foundation
  • ProposalCENTRAL (what the future DOES look like)

• US public access policies
  • 2012 OSTP memo on publications & availability
  • ORCID is organic to this process
  • NIH Manuscript Submission & PubMed - not just for NIH anymore!
Reducing Burden

• Reducing faculty burden
• Federal Demonstration Partnership (FDP)
  • Strategic planning
  • SciENcv
• American Innovation & Competitiveness Act (AICA 2017)
  • Research Business Models working group report
University of Arizona

• History of SciENcv includes universities!

• What we’re doing:
  ○ Integration with UAVitae, our online system for annual faculty reviews
  ○ Collaboration with VPR office and libraries on public access, open access, repositories
  ○ Brainstorming applications for ORCID information
  ○ What we hope(d) to do, then COVID-19 hit
Call to Action

• Meet your research librarians!
• Watch the NSF webinars (links on next slide)
• FDP members: get involved on this topic!
• Learn about ORCID at your institution & encourage your faculty to grant access - how can you help?
• Work with your eRA vendors to add ORCID to systems
Research Admin Resources

- NSF Webinars
  - April 9 recording - NSF and SciENcv
    https://www.nsfpolicyoutreach.com/resources/april-2020-nsf-approved-formats-for-proposals/
  - May 14, 2020 - PAPPG updates- Biosketch, Current & Pending
- Support: https://www.nsf.gov/bfa/dias/policy/era_forum.jsp
- NIH Trainees, Fellows, Career (K) awards:
- Institutional practices:
  - North Carolina State University: https://ci.lib.ncsu.edu
  - University of Arizona: https://orcid.arizona.edu
Q&A

Please send your questions under the “Questions” section in your Webinar control panel.
THANK YOU!

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