Unique Identification of Researchers with ORCID

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First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole
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

Individuals use different alphabets, abbreviations, or naming conventions
Researchers are mobile!

For example, **30% OF THE SCIENTISTS WHO GOT THEIR PhD IN THE UNITED KINGDOM NOW LIVE ELSEWHERE**

Source: Science Magazine

Research institutions and organizations therefore find it hard to

- Benchmark their organization against others
- Identify, track, and report on researchers’ affiliations and contributions (publications, peer reviews, grants, and more)
Institutions Face a Rising Tide of Research

OVER 3 MILLION scholarly articles published per year
Source: The STM Report, October 2018

42,500 ACTIVE SCHOLARLY PEER-REVIEWED JOURNALS
Source: The STM Report, October 2018

Institutions must increasingly recognize and demonstrate the impact of all types of research contributions
Tackling Information Overload

ORCID is a non-profit organization, which provides a fully open and interoperable identifier to reliably connect researchers with their research contributions. The ORCID iD is a 16-digit identifier that researchers can register for and use for free.

Connects individuals and their professional contributions across disciplines, organizations, and time

Enables recognition of all types of research contributions and innovation

Helps research institutions, funders, publishers, and other organizations better track and support research work
How ORCID Works

- It's a registry of unique persistent identifiers for researchers
- It's a hub that connects researchers with their professional activities and contributions
- It's a global community that enables researchers to share their data with other individuals, organizations, and systems
ORCID PRINCIPLES

• Researchers own their iD and control access to their record
• ORCID is an open shop: open (CC0) data, open source code (MIT)
• We have transparent governance by our members
• We are a community organization and we work with everyone
Open Science Policy Platform

Group that advises the Commission on how to develop open science policy. Meeting reports, member details and background

Ensure the scholarly infrastructure in Europe is highly interoperable to enable the simple and open sharing of metadata between systems, disciplines and countries, and that credit for research contributions is given to all participants (including citizen scientists). This will need all actors to require the use of standardised, unique persistent identifiers for researchers and outputs, and for the acknowledgment of diversity in researcher contributions. Components of the ecosystem (identifiers, metadata, vocabularies, data citations, repositories and other data-infrastructures) need to be developed where necessary, refined, standardized and implemented through dialogue with relevant research communities. Whatever standards/infrastructures are developed, they need to be capable of adapting to innovations in Open Knowledge practices.

“This will need all actors to require the use of standardized unique persistent identifiers for researchers and outputs...”

https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-policy-platform#
HOW ORCID WORKS

Researcher
Gives permission to COLLECT iD and access the record

Registers & manages ORCID record
Controls visibility

University
CONNECTS affiliation

Funder
CONNECTS grant

Publisher
CONNECTS publication

ORCID record

Researcher Name

ORCID ID
orcid.org/xxxx-xxxx-xxxx-xxxx

Basic information
• Other names
• Email addresses
• Biography
Account settings

Affiliations, Activities, Resources

Employment:
XXX University
Source: XXX University (ID139)

Funding:
YYY Foundation, Grant #123
Source: YYY Foundation (ID45)

Works:
Book, Chapter, 2016
Source: ZZZ Publisher (DOI:675)
Laurel L Haak, PhD, is the Executive Director of ORCID, an international and interdisciplinary non-profit organization dedicated to providing the technical infrastructure to generate and maintain unique and persistent identifiers for researchers and scholars.

### Biography

<table>
<thead>
<tr>
<th>ORCID: Bethesda</th>
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<tbody>
<tr>
<td>2012-04-09 to present</td>
</tr>
<tr>
<td>Employment</td>
</tr>
</tbody>
</table>

**Source:** Laurel L Haak

- **Keywords:**
  - persistent identifiers, research policy, science workforce, program evaluation, neuroscience, calcium imaging, oligodendrocytes, circadian rhythms

### Employment (2)

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<td>2012-04-09 to present l Executive Director</td>
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<tr>
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</tbody>
</table>

**Source:** ORCID

- **Websites:**
  - LinkedIn
  - ResearchGate

### Education and qualifications (2)

**Stanford University School of Medicine: Stanford, California**

to 1997 l PhD (Neurosciences)

**Education**

**Source:** Laurel L Haak

**Stanford University: Stanford, California**
Hundreds of members and systems use ORCID globally

6.2 MILLION+
live ORCID iDs registered since its 2012 launch

Connections to ORCID records

- 3.7 ORCID iDs created every minute
- 193 different languages included in ORCID records
- 73.6% of records have granted update permissions
- 1.97 record updates made per second

Source: Orclid.org/statistics as of November 2018
How Organizations and Researchers Benefit

**INSTITUTIONS**
- Save time and reduce errors with automated information-sharing and cross-system interoperability
- Manage your organization name and your researchers' connections with it
- Maintain links with your researchers - past, present, and future

**RESEARCHERS**
- Improve recognition and discoverability of their research
- Spend more time doing research, less time managing it
- Control and manage a trusted and easily shareable record of their research activities and affiliations – for free
EVIDENCE OF INSTITUTIONAL VALUE

Examples of time/staff savings achieved by implementing ORCID from around the world

UK: 0.2 – 0.4 FTEs per institution¹
Portugal: 100,000 researcher hours per year²
Australia: 15-30 minutes per grant application³

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

http://idcdocserv.com/US44453318
ORCID Implementation
ORCID CONNECTS IDENTIFIERS

[Diagram showing various identifiers and services such as Academia.edu, Google Scholar, Mendeley, SlideShare, ResearchGate, VIAF, and others connected to ORCID]

Connecting Research and Researchers
...AND CONNECTS SYSTEMS
GETTING STARTED

- Identify **relevant local or national policies** and workflows - such as annual research activities reporting, OA repository deposit, benchmarking
- Identify stakeholders and **target system at university** to store ORCID iDs - such as LDAP, personnel, CRIS, repository
- Identify **system of record for affiliation** information
- Identify **systems that will use ORCID** information
- Register for **API credentials**, plan, and test integration
- **Engage with researchers!**
BUILD IT YOURSELF
OR USE A SERVICE PROVIDER

Publishing
• Editorial Manager
• Open Journal Systems PKP
• ScholarOne
• eJournalPress
• ReView

Document / data repositories
• Zenodo
• DSpace
• ePrints
• Hydra/Fedora

Research Information Systems
• InfoEd
• Converis
• DSpace-CRIS
• Elements
• IRMA
• Pure
• Vivo

... and more in development
RESOURCES

● Read about ORCID use cases https://members.orcid.org
● Learn about ORCID APIs https://members.orcid.org/api
● Use ORCID code https://github.com/ORCID
● Register for ORCID API users listserv https://groups.google.com/forum/#!forum/orcid-api-users
● Register for an organization ID
● Identify primary goals and create an ORCID library guide and training plan https://orcid.org/help
● Use ORCID outreach resources to engage researchers https://members.orcid.org/outreach-resources
Impact & Assessment
All researchers need to be identified through an ORCID ID. Best practice for CV/biosketch evaluation should be developed and publicly showcased to encourage a broader recognition of the range of verifiable (and especially open) contributions individuals make to the knowledge system, including teaching and peer review, and the production of a broad range of output types.
Add affiliation to an ORCID record through your university system.

Collect ORCID iDs and obtain an organization ID.

Cape Peninsula University of Technology: Cape Town, Western Cape, ZA
2015-03-01 to present | Professor (Education and Social Sciences)
Employment

Organization identifiers
Ringgold: 70683
Cape Peninsula University of Technology: Cape Town, ZA
Other organization identifiers provided by Ringgold
ISNI: 000000010177134X
OFR: http://dx.doi.org/10.13039/501100004512

Publisher submission systems ingest the ORCID iD and organization ID (and funding) from the author ORCID record.

Timely and accurate data for benchmarking and evaluation.

Publication databases index and are searchable by ORCID and organization identifiers.
TO REALIZE THE OPEN RESEARCH VISION, EVERY STAKEHOLDER MUST TAKE ACTION
Three Ways to Get Involved

1. Encourage and support your researchers in getting, sharing, and using their ORCID iD
2. Invest in integrating ORCID into your systems
3. Connect data to and from your researchers’ ORCID records to support information use and reuse across organizations

To learn more: https://orcid.org
MEMBERS IN TURKEY

İstanbul Bilgi University
LAUREATE INTERNATIONAL UNIVERSITIES
<table>
<thead>
<tr>
<th>Member Benefit</th>
<th>Basic - NonProfit</th>
<th>Premium</th>
<th>Consortium</th>
</tr>
</thead>
<tbody>
<tr>
<td>API Access</td>
<td>(1)</td>
<td>(5)</td>
<td>(5) per consortium member</td>
</tr>
<tr>
<td>Webhooks: API-based notifications</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Implementation support (email)</td>
<td>Yes</td>
<td>Yes - priority queue</td>
<td>Yes - via consortium lead, escalation to ORCID</td>
</tr>
<tr>
<td>Analytics reports</td>
<td>2/annum (general)</td>
<td>Monthly (includes API usage statistics)</td>
<td>Monthly (includes API usage statistics and consortium summary)</td>
</tr>
<tr>
<td>Orientation webinar to kick off project</td>
<td>1</td>
<td>Up to 2 per month</td>
<td>Consortium lead provides orientation; ORCID trains lead, sponsors global consortium workshop, provides information sharing platform</td>
</tr>
</tbody>
</table>

Requirements and Pricing
- Consortium requirements at [https://orcid.org/content/orcid-consortia](https://orcid.org/content/orcid-consortia)
- Member details and price list at [https://orcid.org/about/membership](https://orcid.org/about/membership)
WHY A CONSORTIUM?

A coordinated approach to ORCID and open science:

- National policy and coordinated messaging across research sectors (funders, institutions, publishers)
- National consortium lead coordinating outreach and implementation support
- Coordinated implementation especially useful with a shared platform(s)
- Coordinated cross-sector benefits
- Learn and share practices with other consortia
- Large discount on premium membership
“At a national level, join ORCID, which provides unique identifiers for researchers, to make finding researchers’ scientific contributions easier and more reliable”

Frédérique Vidal, Minister of Higher Education, Research and Innovation

"France is committed to making scientific research results open to all – researchers, companies, citizens."

https://libereurope.eu/blog/2018/07/05/frenchopenscienceplan/
THANK YOU!