ORCID in Research Information Workflows

Nanyang Technological University

Enhance your Research Presence in the Age of Open Access

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RESEARCH MANAGEMENT TRENDS

- Documenting impact through research performance frameworks
- Reducing researcher burden

... but these two goals seem at cross purposes?
NAME AMBIGUITY

Unique identifiers provide trusted connections to professional activities

Michael Jackson???
IDENTIFIERS FOR PEOPLE, PLACES AND THINGS

<table>
<thead>
<tr>
<th>ORCID ID</th>
<th>First/given name</th>
<th>Last/family name</th>
<th>Other names</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://orcid.org/0000-0002-1479-8485">https://orcid.org/0000-0002-1479-8485</a></td>
<td>Ana</td>
<td>Heredia</td>
<td></td>
<td>Hospital Universitario Virgen de las Nieves, Universidad de Granada Departamento de Psicología Experimental, Universidad de Granada Facultad de Psicología</td>
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<td>Ana</td>
<td>Heredia</td>
<td>Heredia, Ana, Heredia, A., Heredia A, Heredia A, Jose perez</td>
<td>ORCID, Embrapa Solos, Universidade Estadual do Ceará, Université Libre de Bruxelles, Université Paul Sabatier, Universidade Santa Úrsula</td>
</tr>
</tbody>
</table>
WHAT IS ORCID?

• An identifier for researchers
• A registry
• A set of standard procedures (APIs) for connecting researchers to their affiliations and activities
• A committed community building connectors
• An international-scale open research effort
THE ORCID COMMUNITY

• 934 members from 44 countries
• 550+ system connectors: all research sectors
• Over 5.4 million researchers
• Consortia in:
  o Americas: Brazil, Canada & United States
  o EMEA: UK, Norway, Finland, Sweden, Netherlands, Belgium, Germany, Italy, Portugal, Israel, South Africa
  o APAC: Australia, New Zealand, Taiwan

https://orcid.org/statistics
Mandating the use of Open Researcher and Contributor ID (ORCID) by submitting authors.

ORCID provides a unique identifier for all researchers that can be linked to their different research works and activities across multiple platforms. It also serves to distinguish authors with similar names and simplify searching of publications databases (such as PubMed, Scopus, etc.) to avoid retrieving articles by authors with similar names. Close to 1.8 million researchers have already created their ORCID iD. The service is non-profit and community driven.

From 1 January 2016, we will require the submitting author to provide an ORCID identifier as part of the manuscript submission process. Details of the practicalities will be provided shortly, but don’t worry, it takes less than a minute to register for an ORCID iD and it’s free of charge. A recent survey carried out by ORCID indicates strong support in the research community for mandates by publishers, funders, and universities.

Benefits of creating an ORCID iD

1. It’s a time saver

ORCID provides a unique digital identifier, which distinguishes you from other researchers with similar names and also brings together any variant spellings of your name. It supports authentication across multiple journals, search engines and services, allowing you a single sign-on.

Source: [https://orcid.org/content/requiring-orcid-publication-workflows-open-letter](https://orcid.org/content/requiring-orcid-publication-workflows-open-letter)
Visibility, Interoperability & Credibility

How researchers can benefit from ORCID
Researcher

- Gives permission to COLLECT iD and access the record
- Registers & manages ORCID record
- Controls visibility

university

- CONNECTS affiliation
- Source: XXX University (ID139)

funder

- CONNECTS grant
- Source: YYY Foundation (ID45)

publisher

- CONNECTS publication
- Source: ZZZ Publisher (DOI:675)

ORCID record

- ORCID ID: orcid.org/xxxx-xxxx-xxxx-xxxx
- Basci information
  - Other names
  - Email addresses
  - Biography
- Account settings

Activities & affiliations

- 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)
Matthew Buys

**ORCID ID**
https://orcid.org/0000-0001-7234-3684

**Also known as**
MJ Buys, M Buys, Matthew J Buys

**Country**
Netherlands, South Africa

**Keywords**
information systems, interoperability, access to information, research management, innovation, persistent identifiers

**Websites**
LinkedIn
ORCID blog: Matthew Buys

**Other IDs**
ResearcherID: J-2686-2014

**Works (37 of 37)**

- **Blog: Technology+Engagement=Infrastructure Sustainability**
  - Figshare
  - 2018 | other
  - DOI: 10.23640/07243.7008152
  - Source: DataCite

**Peer review (3)**

- Review activity for *Journal of Geophysical Research - Space Physics*
  - *Journal*, JGR: Space Physics is dedicated to the publication of new and original research in the broad field of space science. This embraces aeronomy, magnetospheric physics, planetary atmospheres, ionospheres and magnetospheres, solar and interplanetary physics, cosmic rays, and heliospheric physics. Science that links interactions between space science and other components of the Sun-Earth system are encouraged, as are multidisciplinary and system-level science papers.

<table>
<thead>
<tr>
<th>Review date</th>
<th>Type</th>
<th>Role</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>review</td>
<td>reviewer</td>
<td>---</td>
</tr>
</tbody>
</table>

- Review identifier(s): SOURCE-WORK-ID: mXMEZV6s8H3NebHGSApg
- Convening organization: American Geophysical Union(Washington, DC, United States)
- Source: GEMS
- Created: 2017-10-18

- 2017
  - review
  - reviewer
ORCID and Research Institutions

Why should research institutions care about ORCID?
RELIABLE CONNECTIONS

• Control how your organization name is expressed in systems your researchers use

• Include unique organization identifier

• CONNECT authoritative affiliation information to researcher records
INTERNATIONAL SCOPE

Benefit from a broadly-used, reliable, and mobile identifier for your faculty, staff, students, and alumni.
Receive real-time notifications about research activities, avoiding after-the-fact reporting and form-fatigue.

PHOTO: Custom form elements by Mårten Björk
CC BY 2.0 https://flic.kr/p/86cM6z
ALUMNI UPDATES

Gain insights about former faculty, staff and students.

Automatically be alerted to new contributions – publications, grants and awards, affiliations and more!

PHOTO: Footprints by Holly Gramazio
CC BY-NC 2.0 https://flic.kr/p/yvVMz
MACHINES DO THE WORK

Do all of these activities efficiently and at low cost through machine-to-machine communications using ORCID’s reliable platform.

PHOTO: machine by Eugen Stoll
CC BY 2.0 https://flic.kr/p/5c8cz
DATA WITH CONSENT

Current trends and regulations are putting individuals at the center of their data use.

Strengthen trust and confidence by sharing through ORCID’s permission model.
AUTOMATIC UPDATES BY MACHINES W/ CONSENT

Time to report!

New publication!

Updated grant!

TRIGGERS

Do you have permission to do what you want to do?

Yes!

No

COLLECT permission; store ID and “token”

ORCID Record

Read the record or CONNECT the new or updated information

Researchers control the visibility of their information
RESEARCHERS SUPPORT ORCID

Per our 2017 community survey, respondents strongly agree that an ORCID iD is essential for researchers.

85.9% of respondents believe requiring the use of ORCID iDs is beneficial to the global research community.

PHOTO: High Five Panda By Mark Dumont
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Impact & Assessment
ORCID CONNECTS OTHER IDENTIFIERS

[Diagram showing connections between ORCID and other identifiers such as Academia.edu, Mendeley, ResearchGate, Google Scholar, ISNI, Scopus, VIAF, and OCLC WorldCat.]
Matthew Buys

ORCID ID
https://orcid.org/0000-0001-7234-3684

Also known as
Mj Buys, M Buys, Matthew J Buys

Country
Netherlands, South Africa

Employment (5)
Nanyang Technological University: Singapore, Singapore, SG
2018 to present

Organization identifiers
Ringgold: 54761
Nanyang Technological University: Singapore, Singapore, SG
Other organization identifiers provided by Ringgold
ISNI: 000000012240361
OFR: http://dx.doi.org/10.13039/501100001475

Works (37 of 37)
Blog: Technology+Engagement=Infrastructure Sustainability
Figshare
2018 | other
DOI: 10.23640/07243.7008152
Source: DataCite
Preferred source
Affiliation added to the individual(s) ORCID iD(s) by the university system

Publisher Submission systems

Indexes

Data and rankings
Connecting to ORCID

How do organizations connect to the ORCID registry
ORGANIZATIONS 
INTEGRATING WITH ORCID

● ORCID enabled systems: Use one of the ORCID enabled systems and request production credentials (https://members.orcid.org/api/orcid-enabled-systems)

● Custom integration: We suggest that you read through our documentation (https://members.orcid.org/) and that your developers read our technical documentation https://members.orcid.org/api/integrate/create-records and join our API User Group
The research community in Singapore has the power to improve the **value and openness** of research information.

Unique researcher identifiers have the potential to **streamline information sharing and bring transparency** to the creation and re-use of that information.
Find out more at https://orcid.org
Register at https://orcid.org/register
Email m.buys@orcid.org
Twitter @ORCID_Org / @mjbBuys