ORCID: RESEARCH IN A WORLD WHERE MACHINES READ

NORTH WEST UNIVERSITY | OCTOBER 26, 2016
“Researchers want to be read, acknowledged, and quoted.”

“Researchers want to spend their time on research, not reporting”
The research community has lacked the ability to link researchers and scholars with their professional activities.

- **Name variations:**
  - Matthew J Buys, MJ Buys, M Buys, Matthew John Buys,
  - بایز، ماتئیو

- **Institutional variations:**
  - ORCID, ORCID Incorporated, ORCID Inc, ORCID EMEA
"I'm the 38th author..."
"Wow, that sucks."
"I hadn't finished. I'm the 38th author called "Wang"."
"Oh."

cbi.nlm.nih.gov/pubmed/26799652

Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition).

Of the more than six million authors in major journal citations and abstracts database, +2/3 share last name and single initial with another author. An ambiguous name in the same database refers on average to eight people.
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.
Names are Messy
CAN NAMES BE CLEANED UP?

Of course they can!

We need to use *digital names*: persistent identifiers that uniquely specify the person, organization, or object to which a name refers.
SECTOR CHALLENGES

Publishers
• Identity of an author? Affiliation?
• Reviewer credibility?

Employers
• Tracking research outputs?
• Tenure, promotion?
• External funding?

Funders
• Pre-award evaluation?
• Applicant affiliation?
• Post-award evaluation?
RESEARCHER CHALLENGES

• Unique identity? Multiple profiles?
• Different affiliations?
• Time consuming reporting requirements?
• Linked professional activities from trusted sources?
• Peer review?
ORCID provides a persistent digital identifier that distinguishes researchers from each other and links them to an organization identifier.

Individuals register for free and use this at their institution, funders and publishers.

Organizations join as members and can build integrations into their systems.
ORCID IS OPEN

• Non-proprietary and platform-neutral
• International service that integrates with other researcher identifiers
• Registry use is free for individuals
• Independent non-profit membership organization
To benefit, researchers need only do 2 things:

1. Register for an iD
2. Use it!
RESEARCHER CONTROL

Who can see this?
- everyone
- trusted parties
- only me

Privacy
Over 2.6 million researchers have registered for an ORCID identifier.

ORCID iDs are associated with:
• >6 million unique DOIs (papers & data)
• >50 thousand unique organization IDs
ORCID Organization,
A Tweet you were mentioned in got retweeted!

tracey depellegrin
@editor_traceyd

random happy moment of day: just rec'd 26-author paper, and nearly all have @ORCID_Org IDs!
#standards

10:44 AM - 14 May 16
There are now 5m @webofscience records with associated @ORCID_Org iDs! #ORCID15

And @ElsevierConnect have c3m records with links to @ORCID_Org! #ORCID15
ORCID ENABLES ASSERTIONS

Organizations use ORCID APIs to authenticate, collect, display, and connect persistent identifiers for people, places, and things in research workflows.
WHAT IS AN ORCID ID?

An ORCID iD is a unique persistent identifier which resolves to data about a researcher. Researchers control data associated with their record.

It looks like this:

http://orcid.org/0000-0001-5727-2427
WHAT’S IN A ORCID RECORD?

Organized into two sections.

Person:
Names, Countries, Keywords, Websites, Person Identifiers, Biography

Activities:
Education, Employment, Funding, Peer Reviews, and Works
ORCID RETURNS THINGS LIKE THIS!
ORCID MEMBER API

**Member API** - Only available to member organizations

- Read Limited (non-public information a researcher chooses to share with a member organization)
- Add and update records (requires users permission)
- Webhooks
- Researcher Notifications
ANY DISCIPLINE, ANY COUNTRY

• ORCID can connect to over 30 work types, in any language
• The Registry is available in 11 languages
• We have staff in 9 countries who speak 7 languages
• We have members in over 20 countries, across disciplines
• We have users in every country
After Professor Andrew Brown studied classical and jazz piano at The University of Melbourne he worked as a keyboard player in touring bands through the 1980s. During this time an interest in electronic keyboards grew into a passion for music technology more broadly. This passion has fuelled an academic career in teaching and research at The University of Melbourne, Queensland University of Technology, the Australasian CRC for Interaction Design and now Griffith University. His current performance practice is laptop live coding and he is involved in a range of digital arts practices.
ORCID & PLATFORMS

Platforms using the ORCID API

ORCID Registry
2.7M+ live iDs
“We want to use ORCIDs to simplify the life of Oxford’s researchers for working with institutional systems and publishers’ systems by re-using already available information for publication data management and reporting.

The motto is: Input once – re-use often.”

Wolfram Horstmann, (fmr) Assoc. Director, Bodleian Libraries, University of Oxford

http://orcid.org/0000-0001-8673-6104
National funding agencies are using ORCID in their grants management systems including the National Research Foundation (ZA) National Institutes of Health (US), Research Councils UK UK and the Australian Research Council.

Box 2. Funder Mandates. These funders are requiring use of ORCID by researchers.

- Autism Speaks, USA (2014)
- FCT, Portugal (2014)
- QNRF, Qatar (2014)
- SRC, Sweden (2014)
- Department of Transportation, US (2015)
- NIHR, UK (2015)
- Wellcome Trust, UK (2015)
- FWF, Austria (2016)

http://orcid.org/blog/2015/12/04/research-funders-and-orcid-new-members-mandates-and-platforms
From January you’ll need an ORCID

7 December 2015 by Phil Hurst

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.
PEOPLE AND THINGS

submit manuscript
ID
submit metadata
ora
update author ORCID record
IDdoi
notifications to member systems
University Library
Faculty Profiles
Funders
ORCID Record
**AUTO-UPDATE IN ACTION**

Jake VanderPlas @jakevdp · 2h
My first @JOSS_TheOJ paper passed review and is published! joss.theo.j.org/papers/10.2110...

Jake VanderPlas
@jakevdp

Wow... that was fast! @ORCID_Org
@JOSS_TheOJ

ORCID

Hi Jacob VanderPlas,
You have 1 new notification in your ORCID inbox - see summary below. Please visit your ORCID Inbox to take action or see more details.

Crossref: Add your published work(s) to your ORCID record

Works (1)
mst_clustering: Clustering via Euclidean Minimum Spanning Trees http://dx.doi.org/10.21105/joss.00012

more info... Add now

View details in your ORCID inbox
RESOURCES

member resources (includes planning & communication resources)
http://members.orcid.org

API documentation
http://members.orcid.org/api

getting authenticated ORCID iDs
http://members.orcid.org/api/tutorial-retrieve-orcid-id-curl-v12-and-earlier

vendors that support ORCID iDs
http://members.orcid.org/publisher-tools

goinging help at ORCID
http://orcid.org/help/contact-us
The ability to uniquely identify contributors is a deceptively simple concept which, if realised, could enable forms of real-time understanding of scientific research that up to now have been extremely costly (if not impossible).

--Jonathan Kram, Wellcome Trust
THE TRUE POWER OF OUR API IS THE FLEXIBILITY TO USE IT IN WAYS WE HAVEN’T EVEN DREAMED OF!
THANK YOU!

- Find out more at http://orcid.org
- Register at http://orcid.org/register
- Twitter @ORCID_Org / @mjbuys

Matthew Buys
Regional Director, ORCID
m.buys@orcid.org
http://orcid.org/0000-0001-7234-3684
API Demo

Get an ORCID iD!

Click the button below to create an ORCID iD and connect it to State University's faculty profile system.

Create a new ORCID iD

Already have an ORCID iD? Connect your existing ORCID iD

http://orcid-create-on-demand.herokuapp.com