Why do I have to manually enter data about my professional activities every time I … submit a manuscript, apply for a grant, renew membership in my society?

What happens to this data when I move?

Are these two names referring to the same person?

How can we know what our researchers have produced?

How do we keep our repository up to date?

How can we accurately benchmark research strengths and impact?

How can we track people who participated in our programs?
ORCID Mission: Connecting Research with Researchers

Without a way to discretely identify those participating in research across disciplines, organizations, and countries, the research community lacks the ability to accurately and easily identify and link researchers and scholars with their professional activities.
ORCID

ORCID is an international, interdisciplinary, open, not-for-profit, community-driven organization. We collaborate with researchers and organizations across the research community.

Our core mission is to provide an open registry of persistent unique identifiers for researchers and scholars and to automate linkages to research works and objects such as publications, datasets, other IDs, grants, and patents.
The ORCID
http://orcid.org/0000-0002-1825-0097

- 16-digit number
- Expressed as URI
- Compatible with ISNI
  ISO 277729 standard
Benefits to the community

- Unique and persistent iD can be used throughout career
- Improved system interoperability – across discipline, organization, and country
- Reduced reporting workload for researchers
- Automates repository deposition
- Supports institutional reporting
- Open identifier and APIs can be used in any setting
For benefits to be realized…

Researchers must see the benefit of creating ORCID IDs

Researchers must create or claim an ORCID Account

Research information processes and systems must adopt ORCID as a standard person identifier, embed ORCID iDs, and link back with the ORCID Registry
ORCID is international

As of April 26, ORCID had 125,666 registered users.
Register for free directly at http://orcid.org/register

11 countries >10,000 visitors
48 countries >1000
92 countries >100

<table>
<thead>
<tr>
<th>Country / Territory</th>
<th>Visits</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>67383</td>
<td>17.4%</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>26923</td>
<td>6.9%</td>
</tr>
<tr>
<td>China</td>
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<td>6.4%</td>
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<tr>
<td>Spain</td>
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<tr>
<td>Italy</td>
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<td>Brazil</td>
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</tr>
<tr>
<td>Japan</td>
<td>13484</td>
<td>3.5%</td>
</tr>
</tbody>
</table>

Steady growth since launch
ORCID Members

ORCID currently has 40+ subscribers and member organizations across the research community:

- **Associations:** APA, APS, ACM, MLA
- **Funders:** NIH, Wellcome Trust
- **Repository and Profile Systems:** ANDS, CrossRef, Faculty of 1000, Figshare, IFPRI, OCLC, PubMed Europe, Thomson Reuters
- **Universities/Research Organizations:** Boston University, CalTech, Chinese Academy of Sciences Library, CERN, Cornell, Harvard, KISTI, MSKCC, NII, NYU Langone Medical Center, University of Michigan
- **Pipeline:** *Just signed:* AAAS, ACSESS, Avedas, FHCRC, Glasgow University, Karger, Knode, MIT, Oviedo, Riga Tech, RSC, Symplectic

*May Special – Sign up today and get 3 years for the price of 2!*
ORCID iDs are being embedded in workflows

- University Current Research Information Systems (CRIS) profile systems (Boston Univ, Avedas….)
- Manuscript submission (Nature, Hindawi, APS, Copernicus….)
- Grant applications (NIH, Wellcome Trust….)
- Linkage with repositories (CrossRef, Dryad, EBI-EMBL….)
- Linkage with other IDs (RID, Scopus, ISNI….)

We are exploring integration in membership systems with professional societies, and ORCID has been proposed as a component of both Federated Identity Mgt (FIM) and Conflict of Interest (COI) management systems.
Integrators are supporting adoption and use

While most users come directly to the ORCID Registry (http://orcid.org), about a third of traffic to the ORCID site comes from member integrations, including manuscript submission systems, other ID providers or repositories, and from non-members through social media and use of the public API.
The ORCID Registry

Other IDs
- ResearcherID
- Scopus
- RePec
- SSRN
- ArXiv

Research Information Systems (CRIS)
- Research Institutions
- Funders
- Governments

ORCID Account
- Account Settings
- Manage Permissions

ORCID Record
- Biography
- Research Activities

Workflows
- Manuscript submission
- Grant applications
- Dataset deposition
- Patent applications
**ORCID Personas**

**The Scholar/Researcher**
*Individual for whom the iD and Record are created and maintained*

**Proxy(ies)**
*Individual(s) assigned by the Scholar to edit the ORCID Record on the Scholar’s behalf (though the website)*

**Trusted Organization(s)**
*Organizations assigned by the Scholar to view, edit or add to the ORCID Record on the Scholar’s behalf (through the API)*

**The ORCID Account Owner**
*The Scholar. If an institution creates an iD, could serve as account owner.*
ORCID APIs

Public/Tier 1 API
- No token or registration needed
- Can only access data marked as public
- Can only READ

Member/Tier 2 API
- Registration and token needed
- With permission, can access data marked as limited
- Can READ, EDIT, APPEND. For institutions, it is also possible to CREATE
ORCID Privacy

Information in an ORCID Record has a privacy setting, which can be set by the account owner or proxy.

**PUBLIC**
Accessible by anyone

**LIMITED**
Accessible by Account Owner, Proxy(ies), Trusted Organization(s)

**PRIVATE**
Accessible by Account Owner, Proxy(ies)

Account information (settings, permissions) is accessible by the **ACCOUNT OWNER**
Accessing ORCID Records

Scholar/Researcher
From the Website

CREATE
EDIT
ADD TO
READ

Proxy(ies)
From the Website

CREATE
EDIT
ADD TO
READ

Trusted Organizations
From the API

CREATE permission:
granted by ORCID only if employer

EDIT permission:
one time ONLY for short term;
granted at time of edit

APPEND permission:
one time ONLY for short term;
granted at time of addition

READ permission:
granted until revoked by user

Permissions at launch— to be extended over time
Case Study 1: An iD is created by an institution, and then claimed and managed by the user.

1. **CREATE**
   - Institution creates an ID for employee
   - **ORCID Record**
   - **API POST**

2. **ADD TO**
   - Scholar claims the ID, sets privacy levels, establishes trust relationships
   - **PUBLIC LIMITED PRIVATE**
   - **ORCID Record**
   - **ORCID Web Interface**

3. **READ**
   - Trusted organizations add activities and receive updated Scholar information
   - **ADD TO**
   - **READ**
   - **API POST / GET**
Case Study 2: A user establishes a trust relationship while at a member site

1. Member site asks for permissions from a Scholar
   - ORCID Widget
   - OAuth 2.0

2. Scholar reviews the request and establishes trust relationships
   - ORCID Widget
   - OAuth 2.0

3. Member site becomes trusted; may add activities and receive record updates
   - API POST / GET
   - ADD TO
   - READ
   - ORCID Record
Example Workflows

- Linking to CRIS profiles and importing information
- Embedding in manuscript submission and production
- Linking to other identifiers and import/export
- Consuming data to generate usage statistics
Link between profile and ORCID iD

Organisational Affiliations
Avedes
Faculty of Mathematics, Informatics and Natural Sciences

Research Areas
Forestry and Wood Science

Projects
BMW/MWB Project
European Commission: BREDGE
European Commission: LifeCompetence
Integration of the University Libraries in CONVERIS
MRC Medical Research Council in the UK

Publications
Advances in Sharing and Managing Knowledge about European Research Infrastructures
All roads lead to Rome - Establishing Best Practices for the Implementation and Introduction of a CRIS: Insights and Experiences from a CRIS Project at the University of Münster
Bereitschaft zu Mutation und Erneuerung: Wie kann ein Berufskolleg an die neue Zeit angepasst werden? ERP 1.3 Full Data Mode (PDF) - Introduction and Specification
Chapter 11: Zugangs- und Zugriffskontrolle und Chapter 12: Identitätsmanagement, In J. Dinger, H. Hartenstein, Netzwerk- und IT-Sicherheitsmanagement: Eine Einführung

Further Research Activities
Conception, evaluation and simulation of identity-related services in highly distributed environments
Consulting business essentials 4
Editor of the Springer series of books on recent developments in science
Heinrich Pette Award of the German Neurological Society
Identity and access management

Keywords
Identity management

Import publications from ORCID Record
CRIS Profile Integration
last year’s launch of the Open Researcher and Contributor ID (ORCID) facility is to be welcomed. The core function of ORCID — a community collaboration — is to assign every researcher a number and a web page, thereby providing a unique identifier and so disambiguation. The web page enables the researcher to record their contributions: papers they have published and — a facility to come — their research grants and patents. *Nature journals authors can link their ORCID to their account in our manuscript submission and tracking system, and we will soon be publishing authors’ ORCIDs in papers.*
Linking to other IDs

Create an ORCID iD or associate existing ORCID iD with ResearcherID

Exchange profile and/or publication data between ORCID and ResearcherID
Import Articles from ORCID

Just enter your ORCID ID (for example, 0000-0001-5109-3700). We’ll import the public publication Works associated with your ORCID record.

If you don’t have an ORCID ID yet, it only takes a few minutes to register for one and automatically add your publications to it.

ImpactStory only imports public publications. If your Works are currently listed in your ORCID profile as "limited" or "private", you can change them to "public" on your ORCID Works update page.

We currently only import Works with dois — stay tuned for other work types soon!

Generating Usage Statistics
2013 Roadmap

Q1
Launch Ambassador Program
Publish Open Source Plan
Call for Developers: May Codefest
Workflow for Localization
New Features: Multi Email
Standard Integration: Publishers
Premium Benefits: Reports, Webhooks

Q2
Train Ambassadors
Build out methods for Open Source Cmty
Host May Outreach Mtg and Codefest
Launch Localized UI #1
New Features: Affiliations, Grants, Proxies
Std Integration: External IDs, Repositories
Std Framework: Search and Import

Q3
Start work on claim store requests
Call for Developers: October Codefest
Launch Localized UI #2
New Features: Patents, Cross-link works
Standard Integration: Universities

Q4
Complete work on claim store reqts
Host October Outreach Mtg and Codefest
Launch Localized UI #3
New Features: Pictures, Author linking, Invite
Std Integration: Funders
Member/Subscriber Privileges and Fees

ORCID offers two membership/subscription categories for organizations, basic and premium.

We currently are offering an Early Adopter program -- organizations that request a 3-year membership agreement by May 1 and pay in full before May 31, 2013 will receive three years of membership for the cost of two years.

Basic Membership (US$5,000 per year):
• Member organizations may access the Member API, which supports authentication and authorization following the OAuth 2 standard
• Member organizations may create ORCID records and deposit data into ORCID on behalf of employees, students, or affiliated individuals (individuals would have control over privacy settings)
• Member organizations may serve as default Trusted Parties or delegated managers for the records they create (individuals may override this setting)
• Individuals may share their non-public ORCID data with their employer or designated ORCID member organizations
• Member organizations may access a biannual data file of ORCID public data
• Member organizations may enter nominations for the ORCID Board

Premium Membership (US$10,000 per year for organizations with less than US$200M in revenue or research funding; US$25,000 for larger organizations):
• All of the benefits of Basic membership
• Queries of ORCID explicitly shared data (coming in 2013)
• Automated update services for synchronizing between ORCID record data and your data system (coming in Q1 2013)
• Higher allowed API requests per day (coming in 2013)
• Custom reports detailing site traffic, registrations, and visit duration for visitors referred from member site
Need more information?

• Find out more at http://orcid.org
• Come to our Outreach Meeting – May 23, Oxford
• Learn about APIs and tools to embed ORCID iDs at http://support.orcid.org/knowledgebase/
• ORCID code is posted on GitHub, see https://github.com/ORCID/ORCID-Source/wiki
• Subscribe to our blog and follow @ORCID_Org on Twitter
• Contact the ORCID Executive Director at l.haak@orcid.org