



Open Researcher
& Contributor ID

ORCID Status and Plans: 2012

Scholar One User Conference

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An independent, community effort to standardize researcher identification

TOPICS

- ❖ What is ORCID?
- ❖ Development Schedule
- ❖ Tools for Publishers
- ❖ Examples

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THE PROBLEM: NAME AMBIGUITY

The scholarly record is broken.

Reliable attribution of authors and contributors is impossible without unique person-level identifiers



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FACING THE CHALLENGE

- Adopt definitional standards within and across data sources and types
- Apply unique ID to person records across data sources and types
- Enlist all sectors in data collection and standards effort

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ORCID

ORCID is an international, interdisciplinary organization involving multiple stakeholders, including research institutions, funding organizations, publishers, and individual researchers.

The ORCID initiative started in late 2009 to solve the name ambiguity problem in scholarly communication.

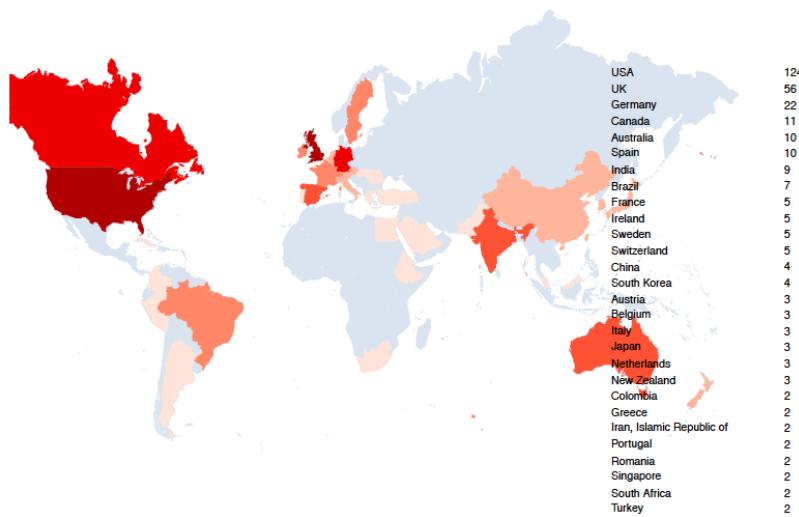
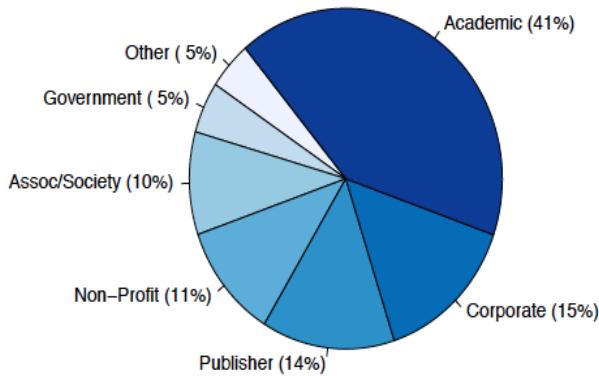
ORCID was incorporated as a non-profit organization with a Board of Directors in August 2010.

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ORCID PARTICIPANTS

ORCID has 328 participant organizations, 50 of which have provided sponsorship funding.



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ORCID SCOPE

ORCID will provide a central registry of unique identifiers for researchers and scholars with the following scope:

- ORCID will focus on currently active researchers.
- Data will come from individuals and organizations.
- ORCID will be a hybrid system of self- and organization-asserted identity.
- Data collected will be that needed for disambiguation - extra data for optionally creating full CV-like profiles might be added in the future.
- The system will provide basic matching and disambiguation of names.
- The ORCID system will, from the start, enable 3rd parties to build value added services using ORCID infrastructure.
- ORCID services will be developed based on the needs of the ORCID community

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ORCID PHASE I SYSTEM

- ✓ Researcher self-claim, delegated management, and institutional seeding of data
- ✓ Fine-grained control of privacy settings
- ✓ Data exchange into grant and manuscript submission systems, and other identification/profile systems such as Scopus, RePEc, Researcher ID, and VIVO
- ✓ ORCID ID resolution and metadata search via GUI and REST API

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ORCID APIs

The Phase 1 beta service will offer a two-tiered, segmented application programming interface (API) to facilitate integration with a range of third-party systems:

The **Tier 1** service can be used by individuals and organizations to query and retrieve public data. The Tier 1 Query API may be used without any registration or configuration.

The **Tier 2** service is intended for third parties who need to query and retrieve protected data, update or add new profile data, and require production-level integration. Authentication and authorization follows the OAuth 2 standard. Tier 2 requires registration of the client application as an OAuth "consumer"

ORCID 2012 DEVELOPMENT PLAN

May 2012: Phase 1. Provide API and sandbox server for third parties—publishers, institutions, funders—to test system integration.

Fall 2012: Phase 1.1: Incorporate requirements determined during integration testing, onboard third party systems, pre-populate profiles, launch ORCID v1.0.

ORCID PUBLISHER WORKFLOW

- Streamline data input
- Create author links

**Researcher starts
manuscript submission**

Manuscript submission system
asks researcher to supply and
validate ORCID identifier

ORCID Tier 2 API passes
ID to manuscript
submission system

Manuscript
processed and
content published

Metadata and ORCID
deposited to CrossRef

ORCID::DOI pairings
submitted to ORCID

**ORCID profile
updated**

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ORCID FUNDER WORKFLOW: Grant submission

- Streamline data input
- Create links between grantees
- Support cross-organization analysis

Principal investigator starts grant submission

PI prompted to supply and validate his ORCID

ORCID Tier 2 API passes ID (and PI-approved ORCID record data) to grant submission system

Grant reviewed and awarded

ORCID::grant pairing notice sent to PI

PI logs into ORCID system and approves ORCID::grant pairing

PI's ORCID profile updated

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ORCID FUNDER WORKFLOW: Grantee record

- Create trans-organization record for all grantees
- Support tracking of grantees across career
- Create links between grantees
- Support cross-organization analysis

Principal investigator logs into grantee profile

Grantee profile systems ask PI to supply & validate ORCID ID

PI prompted to search and/or create ORCID ID

ORCID::profile pairing notice sent to PI

PI logs into ORCID system and approves ORCID::profile pairing

PI's ORCID profile updated

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ORCID RESEARCH ORGANIZATION WORKFLOW

- Create trans-organization record for all scholars and researchers (students)
- Auto-updates for researcher publications, patents, grants, etc.
- Management of Institutional Repository
- Reduced document management workload for researchers

Organization creates ORCID field in their HR system

Organization uses Tier 2 API to upload basic information for staff member to ORCID



ORCID system searches for possible matching profiles



Organization prompted to resolve duplicates



ORCID::HR profile pairing notice sent to researcher

Researcher logs into ORCID to approve ORCID::HR profile pairing

HR profile updated

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TIMELINE 2012-13



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AVAILABLE NOW

- ORCID identifier structure (coordinated with ISNI) will have this structure: <http://orcid.org/0137-1963-7688-2319>
- ORCID Phase 1.0 API (Tier 1 and 2) and binary code
 - ✓ API calls real ORCID code base (Phase 1.0)
 - ✓ Being used now by third parties for integration testing
 - ✓ API documentation and sandbox server available at <https://github.com/ORCID>

PHASE 1.0 QUERY API

Name	Key	Returned	Description
Bio	ORCID	Profile metadata	Given a contributor, give me name and affiliation data
Works	ORCID	List of work metadata	Given a contributor, tell me what works they have contributed to
Work	Work identifiers (e.g. DOIs)	ORCIDs & associated metadata	Given a work, tell me what contributors are responsible for it
Search	ORCID, Work identifiers, or profile metadata	ORCIDs & associated metadata	Given whatever metadata I have, give me a ranked list of potential contributors identified by that metadata

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Connecting Manuscript Tracking Systems to ORCID: *Inserting a call to ORCID API*

authors & referees @npg

Personal profile Professional profile

My Account → Personal Profile

(* = mandatory fields)

Title

* First Name

Middle Name

* Last Name smith

Please check the check box to find ORCID ID Searching ORCID...
ORCID ID

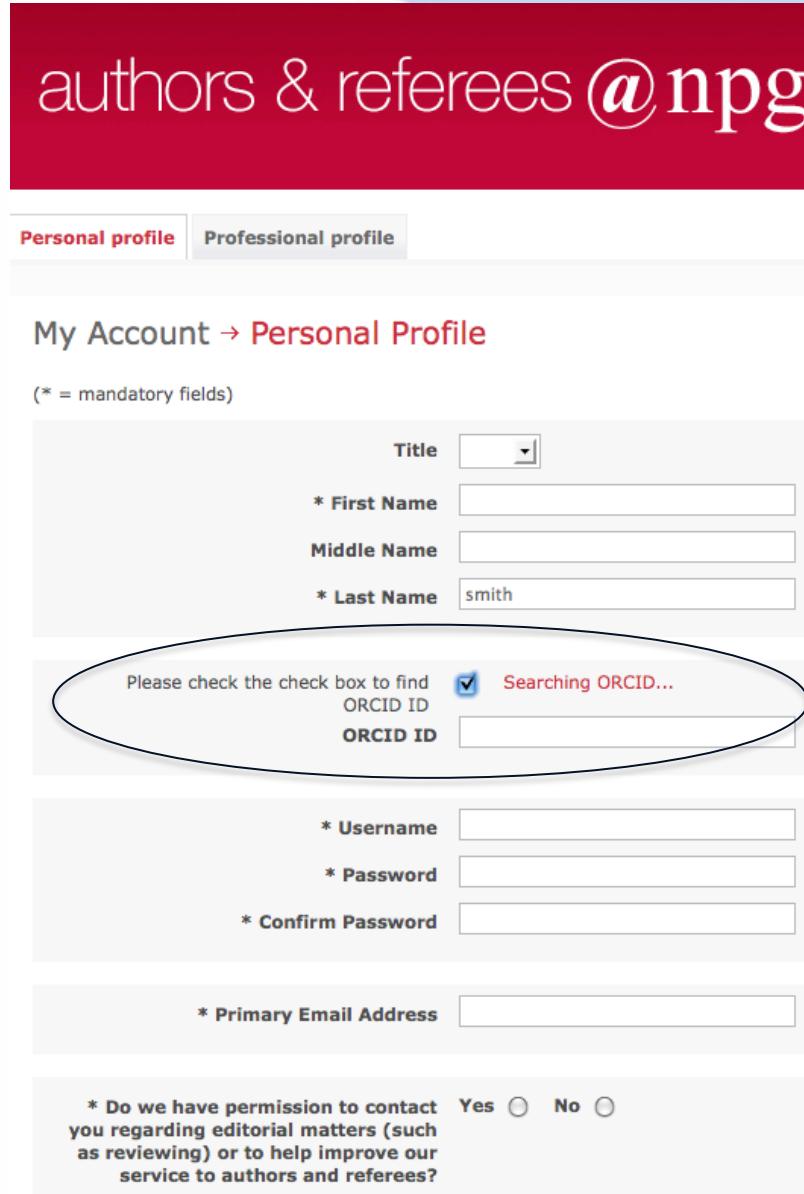
* Username

* Password

* Confirm Password

* Primary Email Address

* Do we have permission to contact you regarding editorial matters (such as reviewing) or to help improve our service to authors and referees? Yes No



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authors & referees @npg

Personal profile Professional profile

My Account → Personal Profile

(* = mandatory fields)

Connecting Manuscript Tracking Systems to ORCID: Providing results from API call

My Account → Personal Profile

(* = mandatory fields)

Title

* First Name

Middle Name

* Last Name smith

Please check the check box to find ORCID ID

ORCID ID Please Select
Please Select
Melvyn Smith (IEEE)
Mark Smith (IEEE)
Arthur Smith (American Physical Society)
Bob Smith (University of Delaware)

* Username

* Password

* Confirm Password

* Primary Email Address

* Do we have permission to contact you regarding editorial matters (such as reviewing) or to help improve our service to authors and referees?

Yes No

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Connecting Manuscript Tracking Systems to ORCID:

Capturing ORCID

Personal profile Professional profile

My Account → Personal Profile

(* = mandatory fields)

Title

* First Name

Middle Name

* Last Name

Please check the check box to find ORCID ID Melvyn Smith (IEEE)

ORCID ID

* Username

* Password

* Confirm Password

* Primary Email Address

* Do we have permission to contact you regarding editorial matters (such as reviewing) or to help improve our service to authors and referees? Yes No

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NEXT STEPS

We are interested in your feedback on the API and on your specific requirements

<https://github.com/ORCID/ORCID-Mock-API-Web-Application/Issues>

A new ORCID developer portal is available at
<http://dev.orcid.org>

NEED MORE INFORMATION?

Find out more at <http://about.orcid.org>

Learn more about development tools at <http://dev.orcid.org>

Sign up for the ORCID newsletter at
<http://about.orcid.org/newsletter/subscriptions>

Follow @orcid_org on Twitter

Join us for the 17 May 2012 Outreach Meeting in Cambridge, MA. See <http://about.orcid.org/meetings>