OUTLINE

• ORCID Implementations
  - Integration with ORCID API

• A Look at Exemplars

• Actions
INTEGRATING WITH ORCID API
ORCID PROVIDES

✔ Plumbing for research information
✔ Tools to build trust in digital information

Persistent digital identifiers to distinguish researchers from each other

Member-built integrations that connect researchers and their activities/affiliations

A hub for synchronizing machine-readable connections between identifiers for people, organizations, and research activities
Organizations use the ORCID API to authenticate, collect, display, and connect persistent identifiers for people, places, and things in research workflows.
ORCID REGISTRY CONNECTIONS

Two models:

1. Connect via a vendor system
   - Manuscript submission/publication
   - Document/data repositories
   - Profile systems
   - CRIS systems
2. Develop a custom connection
VENDOR CONNECTIONS

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

Profile systems
• Society to ORCID

Document / data repositories
• ePrints
• Hydra/Fedora

CRIS Systems
• Converis
• DSpace-CRIS
• Elements
• IRMA
• Pure
• Vivo

Find more:
https://members.orcid.org/orcid-enabled-systems
CUSTOM INTEGRATIONS

Via the ORCID API

• Fine-tuned control & permissions
• Customized buttons, user flows, feedback
• Test & troubleshoot with ORCID team

Case examples:
https://members.orcid.org/resources

Code examples:
https://members.orcid.org/api/resources/code-examples
GET PERMISSION

ORCID registry depends on user-based permissions: Can I...

• have your iD (/authenticate)
• read limited-access data on your record (/read-limited)
• interact with the activities on your record (/activities/update)
• interact with your biographical information (/person/update)
Let’s simplify...

**AUTHENTICATE**
Authenticate ORCID iDs to ensure researchers are correctly identified in your systems

**DISPLAY**
Display iDs to signal to researchers that your systems support the use of ORCID

Create or Connect your ORCID iD

ORCID
https://sandbox.orcid.org/0000-0002-7635-015X

Sofia Garcia
(Not You?)

State University has asked for the following access to your ORCID Record

- Add or update your biographical information
- Add or update your research activities
- Read your limited-access information

This application will not be able to see your ORCID password, or other private info in your ORCID Record. Privacy Policy.

Authorize

Deny

https://orcid.org/0000-0001-2345-6789
**Collect**
Collect information from ORCID records to fill forms and support research reporting

**Researcher Database**

**Name**
Sofia Maria Hernandez Garcia

**ORCID iD**
http://orcid.org/0000-000:

**Method:** GET
**Accept:** application/vnd.orcid+xml or application/vnd.orcid+json
**Authorization type:** Bearer
**Access token:** [Stored access token]
**URL:**
https://api.sandbox.orcid.org/v3.0/[ORCID iD]/record

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**Connect**
Connect information to ORCID records for trusted sharing with others

**Employment (1)**

**ORCID:** Amsterdam, Netherlands
2015-04-30 to present | Lecturer

**Organization identifiers**
Ringgold: 385488
ORCID: Bethesda, MD, US

**Created**
2018-03-22

**Source:** ORCID University
SYNCHRONIZE
Synchronize information between ORCID records and your systems for reporting accuracy and speed

Chieh-Chih Estelle Cheng
ORCID iD
https://orcid.org/0000-0002-3207-0527
## ORCID API

<table>
<thead>
<tr>
<th>Function</th>
<th>Public API</th>
<th>Member API</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AUTHENTICATE</strong></td>
<td>![Fingerprint]</td>
<td>![Fingerprint]</td>
</tr>
<tr>
<td>ORCID iDs with the ORCID API</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DISPLAY</strong></td>
<td>![ID]</td>
<td>![ID]</td>
</tr>
<tr>
<td>IDs you’ve collected in your system</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COLLECT</strong></td>
<td>![Download]</td>
<td>![Download]</td>
</tr>
<tr>
<td>get data from ORCID*Public API limited to public</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CONNECT</strong></td>
<td>X</td>
<td>![Connections]</td>
</tr>
<tr>
<td>add affiliations/contributions</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SYNCHRONIZE</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>add data to/get data from ORCID on an ongoing basis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Collect: Publishing

- Collect information from researcher’s ORCiD record to pre-fill in your system
- For instance, in publishing workflow, you collect your authors’ basic information and pre-fill into your submission system
For instance, in research management workflow, you collect information about your researchers’ research outputs (e.g., publications) and fill into your system.
ORCID members can use the Member API to connect publication metadata with ORCID records that will be available to other systems and organizations accessing the records, adding trust and transparency.
ORCID members can use the Member API to make assertions about the connections between individuals and your organization with ORCID records.
Why Connect?

• Authoritative: Validated data that will flow into any research ecosystem
• Trusted assertion: Improve search and retrieval
Affiliation added to the individual(s) ORCID iD(s) by the university system

Publisher Submission systems

Indexes & Databases

Data and rankings
# Asserting Affiliation

## CHIA-LING MEI

**ORCID iD**
https://orcid.org/0000-0002-8289-5746

**Also known as**
梅家玲

**Websites**
- link1
- NTU Researcher Profile

<table>
<thead>
<tr>
<th>Employment (7)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Taiwan University: Taipei, TW</strong></td>
</tr>
<tr>
<td>2015-08 to present</td>
</tr>
<tr>
<td>Employment</td>
</tr>
<tr>
<td><strong>Source:</strong> National Taiwan University</td>
</tr>
</tbody>
</table>

| **National Taiwan University: Taipei, TW** |
| 2004-08 to 2015-08 | Professor (The Graduate Institute of Taiwan Literature) |
| Employment |
| **Source:** National Taiwan University |

## CHUN-I CHEN

**ORCID iD**
https://orcid.org/0000-0002-0141-7954

**Also known as**
陳純一

**Websites**
- NCCU Academic Hub

<table>
<thead>
<tr>
<th>Employment (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Chengchi University Department of Diplomacy: Taipei, TW</strong></td>
</tr>
<tr>
<td>Professor</td>
</tr>
<tr>
<td>Employment</td>
</tr>
<tr>
<td><strong>Source:</strong> National Chengchi University 國立政治大學</td>
</tr>
</tbody>
</table>

| **National Chengchi University Department of Diplomacy: Taipei, TW** |
| 2011-02-01 to 2013-01-01 | Professor |
| Employment |

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Connecting Other Identifiers

**Rongquan Lai**

**ORCID ID**
https://orcid.org/0000-0003-3701-7183

- 网站
  - Curriculum Vitae
  - Mendeley profile
- 国家/地区
  - 中国
- 关键字
  - Biodiversity Manipulation and Pest Management; Ecological Control of Tobacco Pests
- 其他 ID
  - eScienceID: 0000-0003-3701-7183
- 电子邮件地址
  - lrq305@sina.com

**Yoshikuni Ono**

**ORCID ID**
https://orcid.org/0000-0002-9222-4014

- 网站
  - http://www.umich.edu/~onoy/
- 国家/地区
  - 日本
- 其他 ID
  - Scopus Author ID: 55091186500
  - Researcher Name Resolver ID: 1000070598664
ORCID Integration Workflow

1. Test in the sandbox environment.
   • To obtain Sandbox Public API credentials, register for a Sandbox ORCID iD, sign into your Sandbox ORCID record, go to the “Developer tools” tab, and complete the form.
   • To obtain Sandbox Member API credentials complete the form.
2. Make your integrations live

- To obtain Production Public API credentials, sign in to your ORCID record, go to the “Developer tools” tab, and complete the form.
- To obtain Production Member API credentials, ORCID membership is mandatory. And organizations need to provide a demo of the plugin working in the Sandbox environment to ensure they follow the best practices.
Take Actions

• Publisher: signing the publishers open letter
• Funder: singing the funder open letter
• Integrating with ORCID
• Making the most of ORCID by following Collect & Connect Best Practices
Webinars and resources

Webinars: https://orcid.org/about/events
Knowledge Base: https://support.orcid.org/hc/en-us

Integrations
Getting Started
https://members.orcid.org/api/getting-started
https://orcid.github.io/orcid-api-tutorial/
Case examples:
https://members.orcid.org/resources
Code examples:
https://members.orcid.org/api/resources/code-examples
THANK YOU...

Find out more at https://orcid.org
Register at https://orcid.org/register
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Twitter @ORCID_Org