




Value of ORCID for Funders


Sept. 13, 2022

ORCID US Community Staff

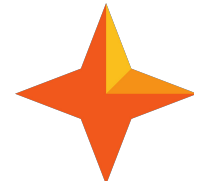


Paolo Guilde  <https://orcid.org/0000-0002-9758-5740>
LYRasis - ORCID US Community
ORCID US Community Specialist



Sheila Rabun  <https://orcid.org/0000-0002-1196-6279>
LYRasis - ORCID US Community, DataCite US Community
Program Leader for Persistent Identifier Communities

- What is ORCID?
 - ORCID iD
 - ORCID Record
 - ORCID API
- Benefits of ORCID for Funders
 - Streamlining workflows
 - Strengthening connections
 - Saving time & reducing administrative burden
- ORCID-enabled systems
 - ProposalCentral
 - Smart Simple
 - ORCID Affiliation Manager
 - Custom Integration
- ORCID US Community Membership



What is ORCID?

ORCID =
Open Researcher & Contributor IDentifier

ORCID

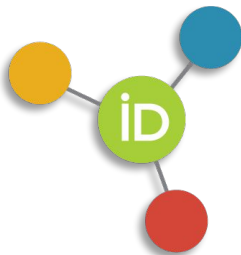
Connecting Research
and Researchers



The **ORCID iD**: a unique, persistent identifier free of charge to researchers

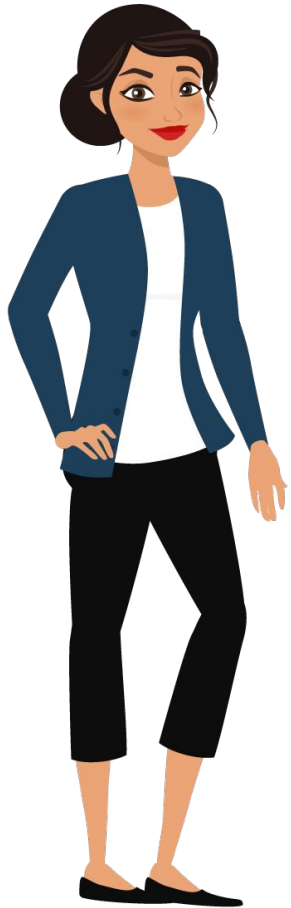


An **ORCID record** connected to the ORCID iD




A set of **Application Programming Interfaces (APIs)**, as well as the services and support of communities of practice that enable interoperability between an ORCID record and member organizations so researchers can choose to allow connection of their iD with their affiliations and contributions

ORCID provides free, unique identifiers for researchers.

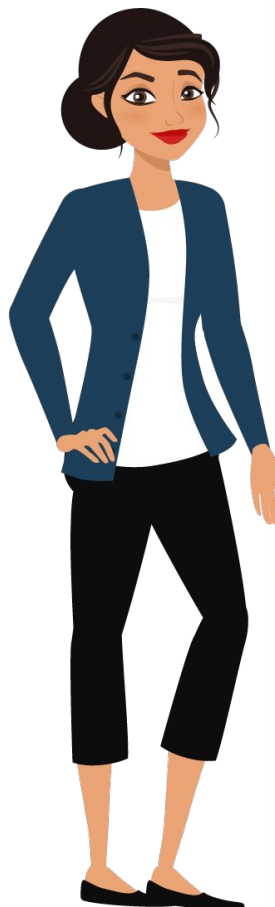


Sofia Maria Hernandez Garcia

ORCID iD:

 <https://orcid.org/0000-0001-5727-2427>

 <https://orcid.org/0000-0001-5727-2427>





<https://orcid.org/0000-0001-5727-2427>

Emails >

s.garcia@orcid.org

Website and social links >

Faculty profile webpage
@sofiamhg

Other IDs >

Profile system identifier: A-123456
ResearcherID: L-8716-2018
eScientist: 0000-0001-5727-2427

Countries >

United States

 Is this you? [Sign in to start editing](#)

 Printable version

Published Name

Sofia Maria Hernandez Garcia

Name
Sofia Garcia

Also known as
S. M. Garcia, Sofia Maria Garcia >

Biography

Sofia Maria Hernandez Garcia is used for testing and demonstrating ORCID records.

Activities

[Collapse all](#)

▼ Employment (2)

 Sort

New Arizona State University: Sedona, Arizona, US

2015-09 to present | Associate Professor (Department of Geography)
Employment

[Show more detail](#)


Source: Sofia Maria Hernandez Garcia

ORCID: Bethesda, Maryland, US

2014-05-01 to 2019-10-25 | Engagement Lead
Employment

[Show more detail](#)

Source: ORCID via Assert-o-matic

 <https://orcid.org/0000-0001-5727-2427>



Education and qualifications (4)

Sort

London School of Physics: London, GB

2016 to 2018 | PhD (Computer Science)
Qualification

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

Universidad Politécnica de Madrid: Madrid, Comunidad de Madrid, ES

2008-09 to 2012-05 | BA Computer Science
Education

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

University of Kingston: Kingston, JM

2010 to 2012 | UX Design Certificate (User Experience)
Qualification

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

State University: Bethesda, Maryland, US

2003-06-15 to 2006-07-15 | BA Computer Science
Education

[Show more detail](#)

Source: State University

 <https://orcid.org/0000-0001-5727-2427>



Invited positions and distinctions (3)

Sort

Royal Society of Arctic Studies: Iqaluit, Nunavut, CA

2015 | Rutherford Medal of Innovation (Iceberg - Thermodynamics LAB)
Distinction

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

Kyoto Institute of Physics 東京工業大学: Kyoto, JP

2012 | Royal Medal (Royal Society of Kyoto) - (Royal Society of Kyoto) (Theoretical Physics)
Distinction

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

École Polytechnique Bordeaux: Bordeaux, FR

2013 to 2015 | Professeure (Laboratoire d'Informatique)
Invited position

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia

Membership and service (2)

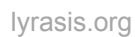
Sort

Association of Personal & Research Identifiers : Auckland, NZ

2017 to present
Membership

[Show more detail](#)

Source: Sofia Maria Hernandez Garcia



Sort


[Show more detail](#)

Sort

Sort

[Show more detail](#)[Show more detail](#)

Source: Sofia Maria Hernandez Garcia via Crossref Metadata Search ★ Preferred source (of 2)

 <https://orcid.org/0000-0001-5727-2427>



Computer Science is fun

book-chapter
DOI: [10.1016/1234](https://doi.org/10.1016/1234)
Part of ISBN: [0-6879-6278-1](https://doi.org/0-6879-6278-1)

[Show more detail](#)

Source: ORCID

The effect of global warming on Arctic polar bears

journal-article
DOI: [1234.123456](https://doi.org/1234.123456)

[Show more detail](#)

Source: ORCID

▼ Peer review (2)

≡ Sort

> Review activity for **National geographic.** (1)

> Review activity for **Nature reviews.** (1)

Record last modified Sep 8, 2021, 4:43:27 PM UTC

- ORCID iDs are free
- 30 seconds to register
- orcid.org/register
- Form:
 - Name
 - Email
 - Password
 - Visibility Settings
 - Notification Settings
 - Terms of Use
 - Not a Robot

Register for an ORCID iD

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

Per ORCID's terms and conditions, you may only register for an ORCID ID for yourself.

First name

Last name (Optional)

Primary email

Additional email (Optional)

[Add another email](#)

Password


☒ 8 or more characters
☒ 1 letter or symbol
☒ 1 number


Confirm Password


Visibility settings

Your ORCID ID connects with your ORCID record that can contain links to your research activities, affiliations, awards, other versions of your name, and more. You control this content and who can see it. More information on visibility settings.

By default, who should be able to see information added to your ORCID Record?

☐  **Everyone** (87% of users choose this)

☐  **Trusted parties** (5% of users choose this)

☐  **Only me** (8% of users choose this)

Notification settings

ORCID sends email notifications about items related to your account, security, and privacy, including requests from ORCID member organizations for permission to update your record, and changes made to your record by those organizations.

You can also choose to receive emails from us about new features and tips for making the most of your ORCID record.


☐ Please send me quarterly emails about new ORCID features and tips to receive these emails, you will also need to verify your primary email address.

After you've registered, you can change your notification settings at any time in the account settings section of your ORCID record.

Terms of Use

☐ I consent to the privacy policy and terms and conditions of use, including agreeing to my data being processed in the US and being publicly accessible where marked Public.




You must accept the terms and conditions.

☐ I'm not a robot 
reCAPTCHA
[Privacy](#) [Terms](#)

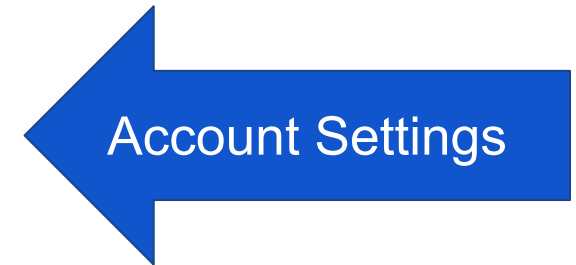
[Register](#)

▼ Visibility



By default, what visibility should be given to new items added to your ORCID Record?

- ☒  **Everyone** (87% of users choose this)
- ☐  **Trusted Organizations** (5% of users choose this)
- ☐  **Only me** (8% of users choose this)

[More information on visibility settings](#)







▼ Works (6)

 Add  Sort

☒ Select all (6) Items currently selected (6)

Actions

-  Combine works
-  Export works (6)
-  Export all works (6)

 Set visibility

☒ **Thor: Conceptual Model Of Persistent Id**

2016-03-31 | Report
DOI: [10.5281/ZENODO.48705](https://doi.org/10.5281/ZENODO.48705)
Funded by GRANT_NUMBER: [H2020-EU.1.4.1.3](#)

Source: Sofia Maria Hernandez Garcia



[Show more detail](#)



The more information you can include in your ORCID record, the more it can benefit you.

ORCID data can include:

- Biographical information (including “also known as”)
- Employment
- Education & Qualifications
- Invited positions & distinctions
- Memberships & service
- Funding
- Works
- (Peer Review activity)
- (Research Resources used)

Data from Organizations

Tso, Chi Yan
ORCID iD
<https://orcid.org/0000-0002-7725-2172>
[Print view](#)

▼ Employment (2) [Sort](#)
City University of Hong Kong: HK, HK
Employment
Source: City University of Hong Kong ★ Preferred source

Ellen C. Ramsey
ORCID iD
<https://orcid.org/0000-0003-4520-4923>
[Print view](#)
Also known as
Ellen Ramsey, Ellen Catz Ramsey, Ellen J. Catz, E Ramsey, EC Ramsey
Websites & Social Links

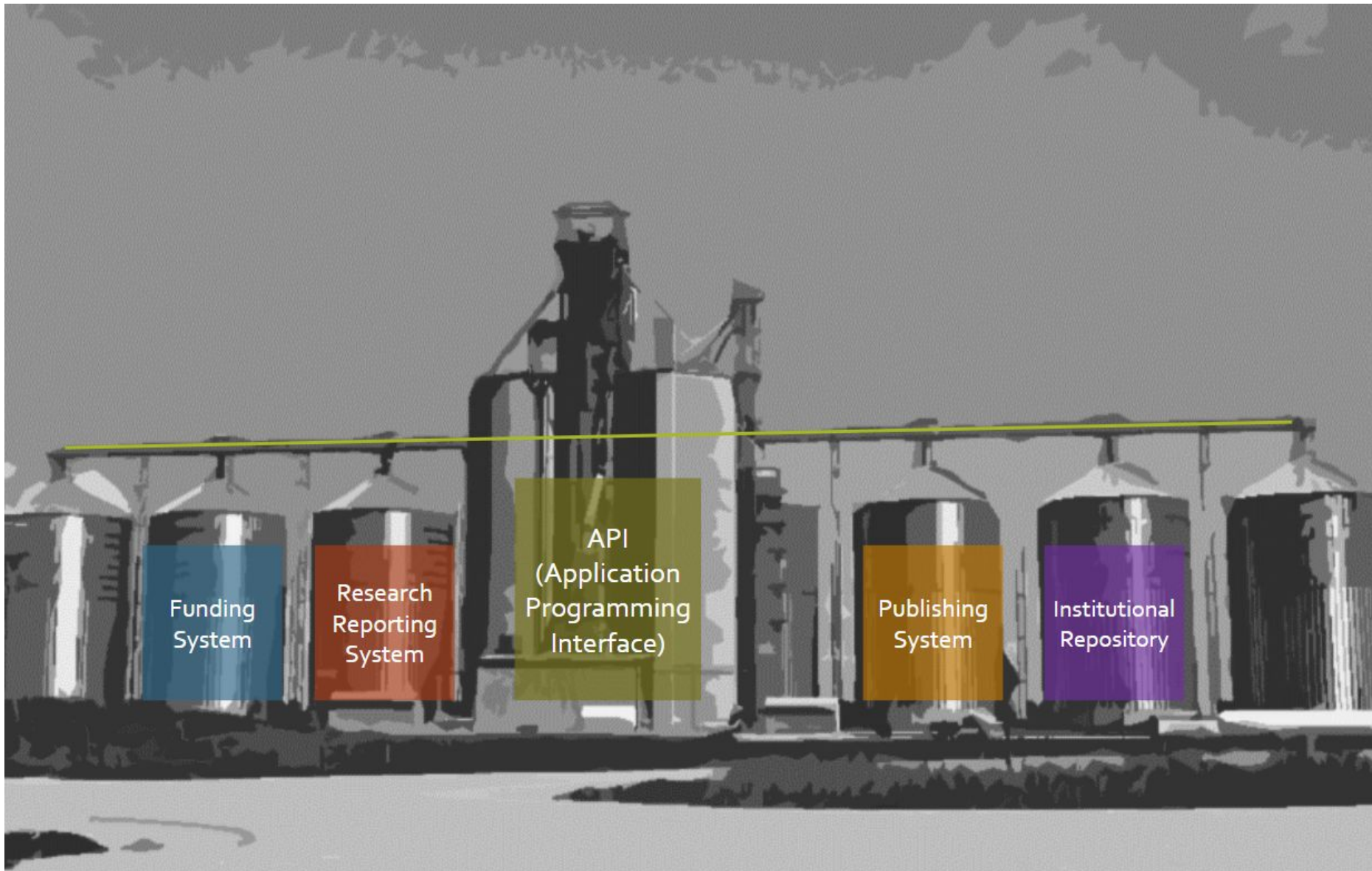
Biography
Currently Director, Scholarly Repository Services at University of Virginia Library. Previously Institutional Repository Librarian and Knowledge Integration Manager at Claude Moore Health Sciences Library, University of Virginia.
▼ Employment (2) [Sort](#)
University of Virginia: Charlottesville, VA, US
Employment
Source: University of Virginia ★ Preferred source

Ricardo Fuentes
ORCID iD
<https://orcid.org/0000-0001-5187-0143>
[Print view](#)

▼ Education and qualifications (2) [Sort](#)
Boston College: Chestnut Hill, MA
Education
Source: Boston College ★ Preferred source

Peter Hunter
ORCID iD
<https://orcid.org/0000-0001-9665-4145>
[Print view](#)
Websites & Social Links
[Auckland Bioengineering Institute](#)
[Mendeley profile](#)

► Employment (1)
► Education and qualifications (1)
▼ Membership and service (3) [Sort](#)
Marsden Fund: Wellington, NZ
2009-01 to 2011-12 | Chair (Marsden Fund Council)
Service
Source: Royal Society Te Apārangi ★ Preferred source

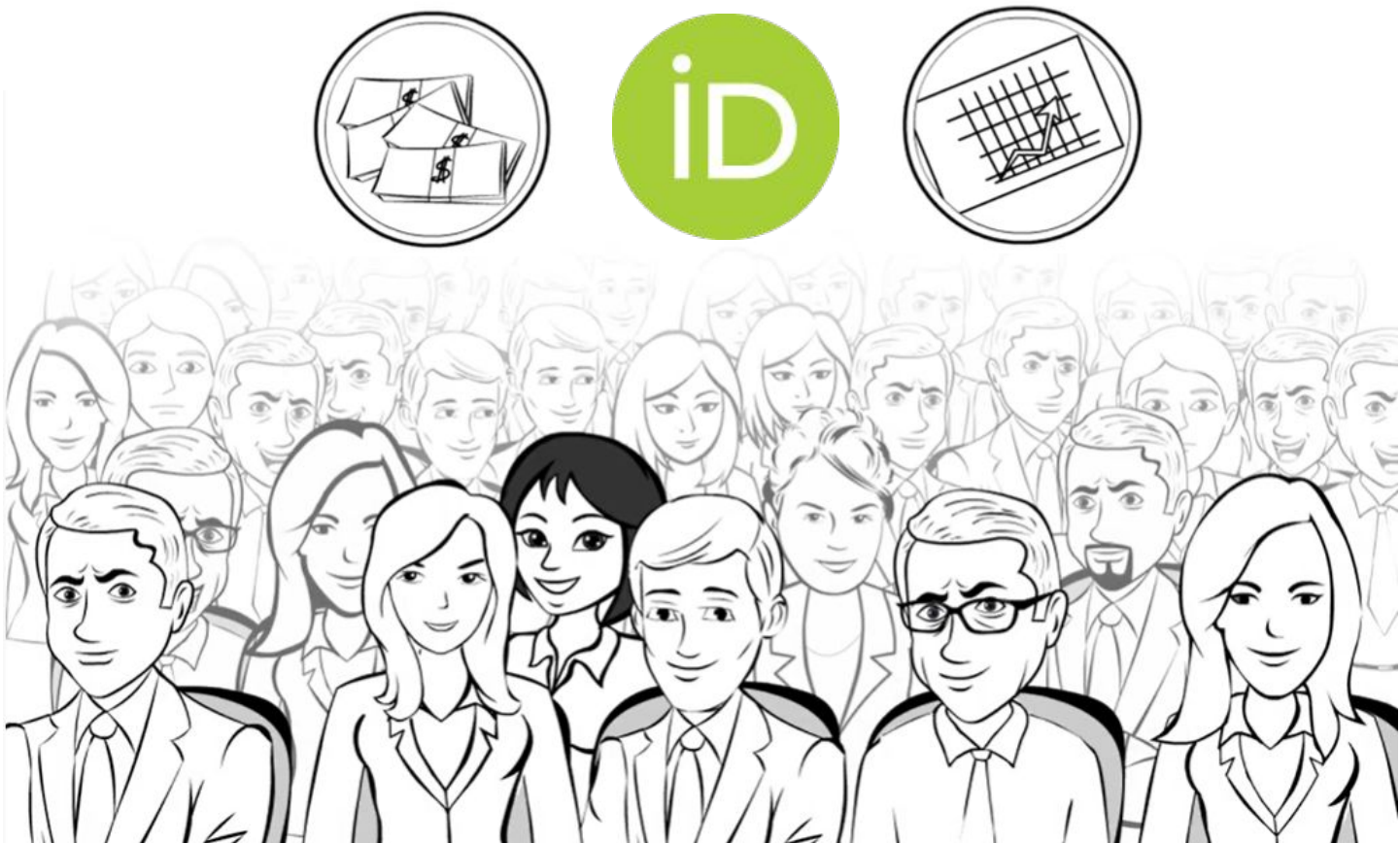




Benefits of ORCID for Funders

ORCID can make it easier for funders to:

- assess your awardee network and influence
- evaluate your grant and program outputs and impact



ORCID makes it easier for funders to...

- assess your awardee network and influence
- evaluate your grant and program outputs and impact

...by providing a shared, persistent way for funders to:

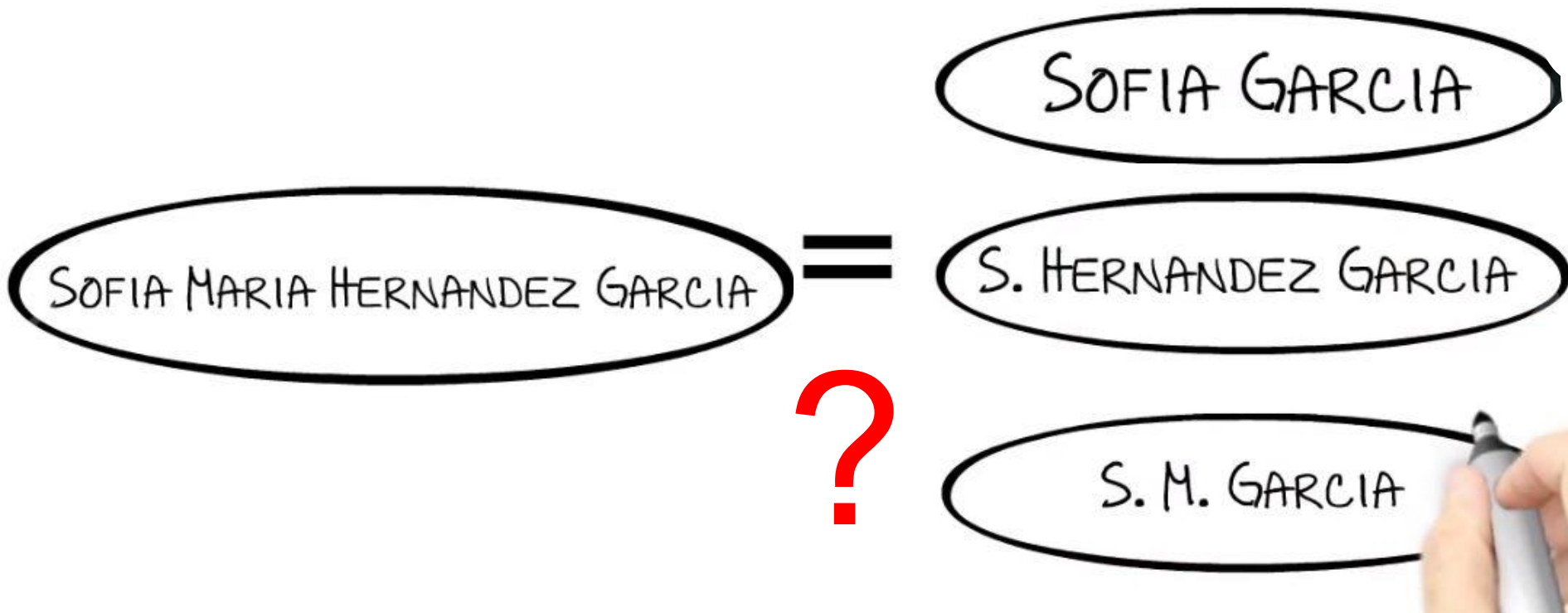
- 1) uniquely identify researchers and stay connected with alumni over time
- 2) streamline collection of data about researchers and their activities, to help with evaluation, reporting, and assessment
- 3) confirm relationships with researchers in the wider research landscape



Uniquely Identify Researchers

(and stay connected with alumni over time)

ORCID allows you to **uniquely identify your researchers** despite shared name, name changes, or variations in name



WOULD THE REAL SOFIA GARCIA STAND UP?



WOULD THE REAL SOFIA GARCIA STAND UP?

 <https://orcid.org/0000-0001-5727-2427>



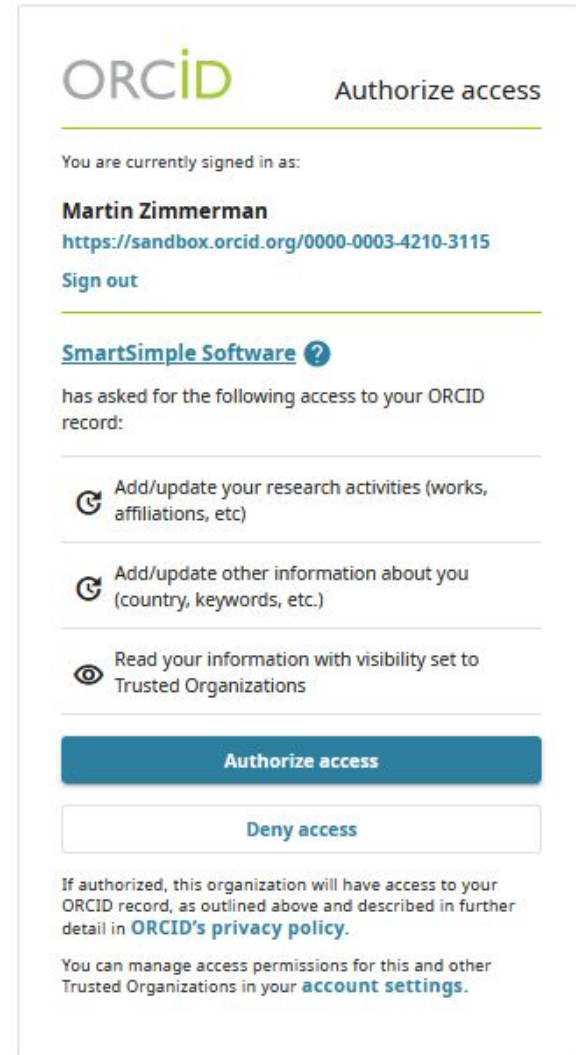
ORCID API OAuth

Process allows researchers to authorize permission for your organization to:

- Get their accurate ORCID iD number
- Write information to their ORCID record
- Read information from their ORCID record

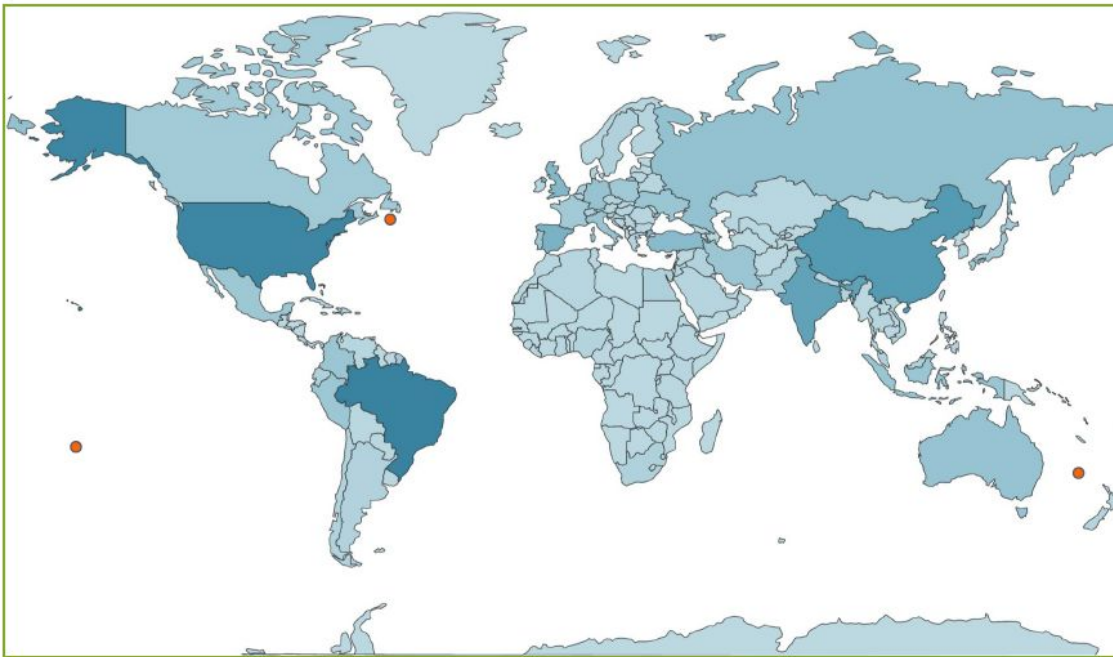


Permissions last for 20 years (stay connected over time)



The screenshot shows the ORCID 'Authorize access' interface. At the top, it says 'ORCID Authorize access'. Below this, it states 'You are currently signed in as: Martin Zimmerman' with a link to his sandbox ORCID record and a 'Sign out' button. The requesting organization is 'SmartSimple Software', which has asked for access to the user's ORCID record. The permissions listed are: 'Add/update your research activities (works, affiliations, etc)', 'Add/update other information about you (country, keywords, etc.)', and 'Read your information with visibility set to Trusted Organizations'. There are two buttons: 'Authorize access' (highlighted in blue) and 'Deny access'. At the bottom, there is a disclaimer about the 20-year permission duration and a link to the ORCID privacy policy, followed by a note about managing access in account settings.

ORCID is broadly used by researchers around the world

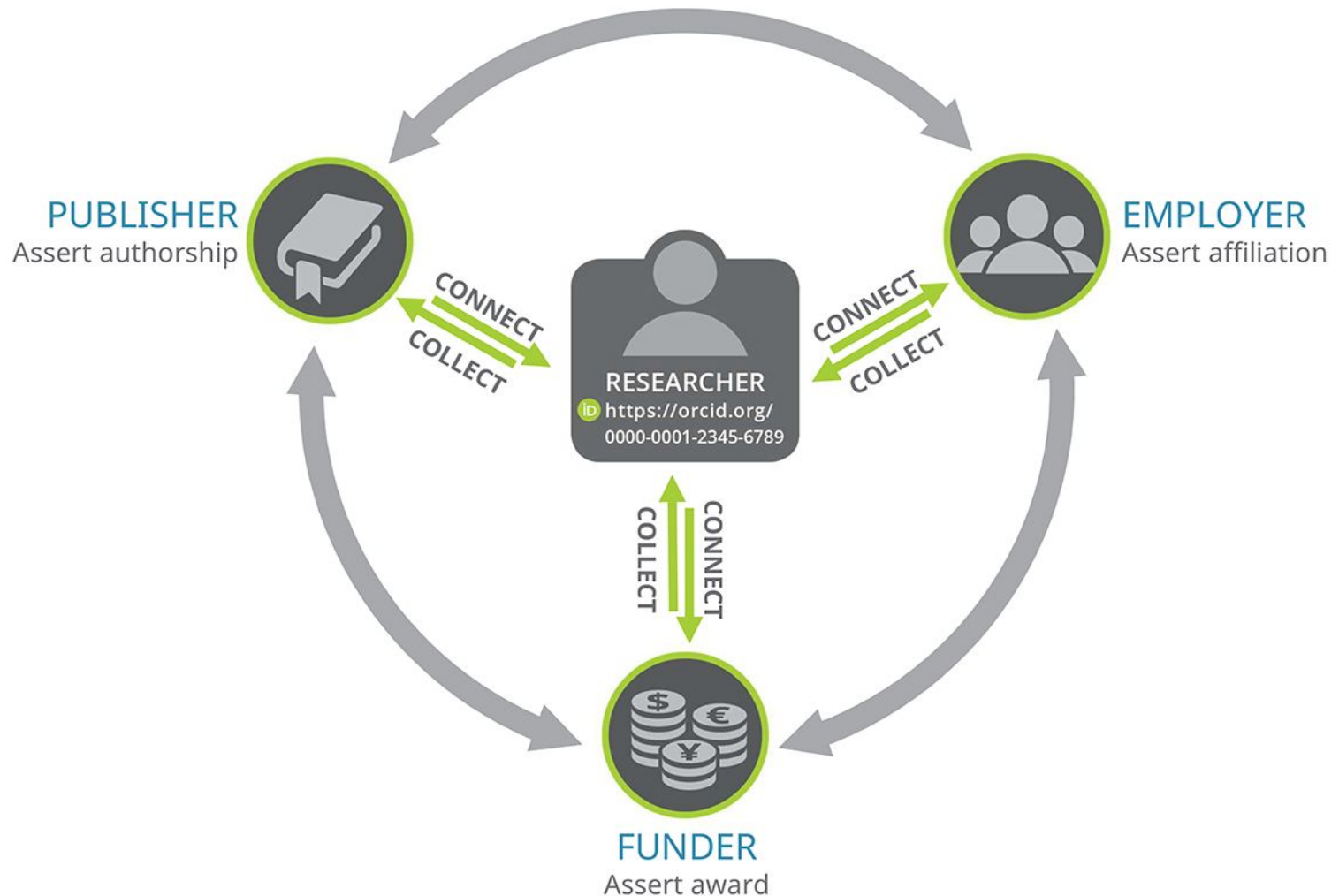


There are ORCID users in 246 countries

That's every country on the planet apart from,

- Niue - island nation in Oceania, pop. 2k
- Norfolk Island - Australian island, South Pacific, pop. 2k
- Saint Pierre and Miquelon - French archipelago south of Newfoundland, pop. 6k

INTEROPERABILITY ENTER ONCE REUSE OFTEN






Streamline collection of data about researchers and their activities

(to help with evaluation, reporting, and assessment)

Streamline collection of data about your researchers and their activities, to help with **evaluation, reporting, and assessment.**



 <https://orcid.org/0000-0001-5727-2427>

Is this you? [Sign in to start editing](#) [Printable version](#)

Published Name
Sofia Maria Hernandez Garcia

Name: Sofia Garcia Also known as: S. M. Garcia, Sofia Maria Garcia

Biography
Sofia Maria Hernandez Garcia is used for testing and demonstrating ORCID records.

Activities [Collapse all](#)

Employment (?) [Sort](#)

New Arizona State University: Sedona, Arizona, US

2015-09 to present | Associate Professor (Department of Geography)
Employment: [Show more detail](#)

Source: Sofia Maria Hernandez Garcia

ORCID: Bethesda, Maryland, US

2014-05-01 to 2019-10-25 | Engagement Lead
Employment: [Show more detail](#)

Source: ORCID via Asset-o-matic

Emails [+](#)
s.garcia@orcid.org


Website and social links [+](#)
Faculty profile webpage
@sofiemhg

Other IDs [+](#)
Profile system identifier: A-123456
ResearcherID: L-8716-2018
eScientist: 0000-0001-5727-2427

Countries [+](#)
United States

Leverage the ORCID API to become a “**Trusted Organization**” on your Researchers’ ORCID records

Trusted organizations

Trusted organization	Approval date	Access type	
American Heart Association https://heart.org	2020-08-27	Get your ORCID iD	

As a Trusted Organization, your organization can retrieve data directly from researchers’ ORCID records, rather than relying on manual form-filling, and write data to ORCID records.

Create a New Document

Document name

Enter a name to help you to identify this document

Format

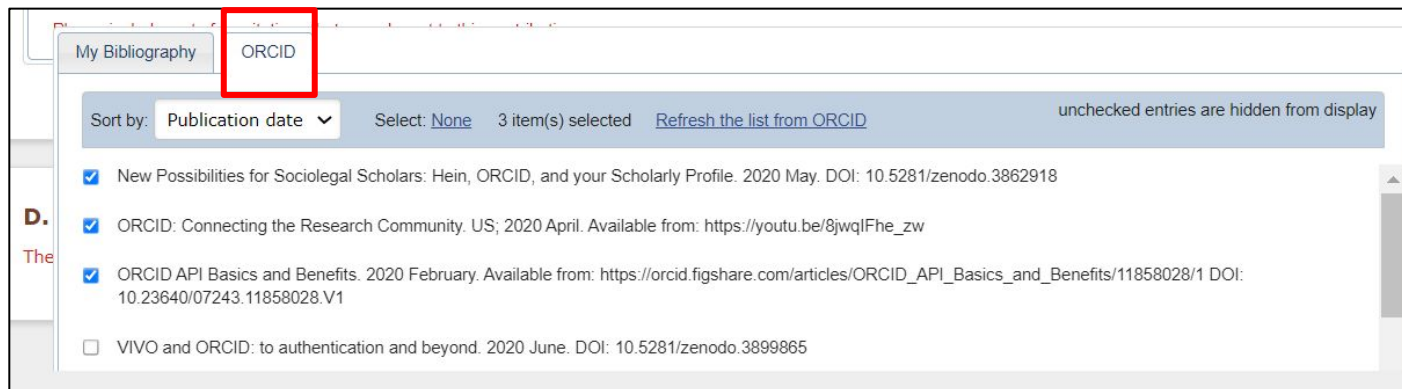
- ☒ NIH Biosketch
☐ NIH Fellowship Biosketch
☐ NSF Biosketch
☐ NSF Current and Pending Support
☐ IES Biosketch

Select a format for this document

Choose data source

- ☐ Start with a blank document
☐ Existing Document:
☒ External source:

Your ORCID account is linked to SciENCv.



The screenshot shows the 'My Bibliography' tab with 'ORCID' selected. Below the tab, there is a list of items with checkboxes. The first three items are checked, and the last one is unchecked. The list includes titles, authors, and DOIs.

Item	Author	Date	DOI
<input checked="" type="checkbox"/> New Possibilities for Sociolegal Scholars: Hein, ORCID, and your Scholarly Profile.	Hein, ORCID, and your Scholarly Profile	2020 May	DOI: 10.5281/zenodo.3862918
<input checked="" type="checkbox"/> ORCID: Connecting the Research Community. US; 2020 April. Available from: https://youtu.be/8jwqIFhe_zw	US; 2020 April	Available from: https://youtu.be/8jwqIFhe_zw	
<input checked="" type="checkbox"/> ORCID API Basics and Benefits. 2020 February. Available from: https://orcid.figshare.com/articles/ORCID_API_Basics_and_Benefits/11858028/1	2020 February	Available from: https://orcid.figshare.com/articles/ORCID_API_Basics_and_Benefits/11858028/1	DOI: 10.23640/07243.11858028.V1
<input type="checkbox"/> VIVO and ORCID: to authentication and beyond. 2020 June. DOI: 10.5281/zenodo.3899865	2020 June	DOI: 10.5281/zenodo.3899865	

Persistent Identifiers

(v) Consistent with applicable Federal laws and statutory authorities, within 1 year of the date of this memorandum, funding agencies shall establish policies regarding requirements for individual researchers supported by or working on any Federal research grant to be registered with a service that provides a digital persistent identifier for that individual.

(vi) Agencies shall standardize disclosure processes, definitions, and forms across funding agencies to the extent practicable. The Director of the Office of Management and Budget (OMB) shall work with OSTP, the Office of Government Ethics, and other agencies to coordinate the standardization of policies and forms related to disclosure of conflicts of interest and commitment. Where appropriate and consistent with applicable Federal laws and regulation, agencies should standardize forms for initial disclosures as well as annual updates, integrating digital persistent identifiers wherever appropriate and practicable, and should provide clear instructions to accompany these forms and to minimize any associated administrative burden.



Presidential Memorandum on United States Government- Supported Research and Development National Security Policy

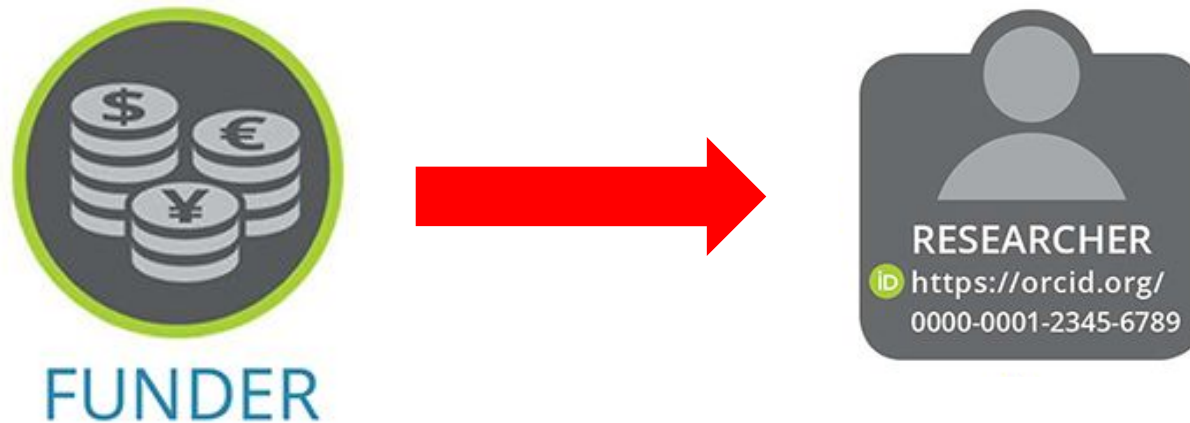
NATIONAL SECURITY & DEFENSE Issued on: January 14, 2021

<https://trumpwhitehouse.archives.gov/presidential-actions/presidential-memorandum-united-states-government-supported-research-development-national-security-policy/>



**Confirm Relationships with
Researchers in the wider
research landscape**

ORCID allows funders to write award info to ORCID records, **confirming relationship** with researchers



Raymond Kim

ORCID iD

<https://orcid.org/0000-0002-2147-8674>

 Print view 

Websites & Social Links

[Google Scholar profile](#)
[University Health Network](#)
[Hospital for Sick Children](#)

► Employment (3)

► Education and qualifications (4)

▼ Funding (1)

Sort

☒ Cell-free DNA as a biomarker in Neurofibromatosis 1
Children's Tumor Foundation (New York)
2019-02-01 to 2021-02-01 | Grant
GRANT_NUMBER: CTF-2018-10-002

Source: Children's Tumor Foundation

★ Preferred source

Evidence of Institutional Value

Examples of time/staff savings achieved by implementing ORCID from around the world



UK: 0.2 – 0.4 FTEs per institution¹

Portugal: 100,000 researcher hours per year²

Australia: 15-30 minutes per grant application³

1. Jisc/ARMA Institutional ORCID Implementation and Cost Benefit Analysis Report 2015

2. Cátia Laranjeira, FCT - Fundação para a Ciência e a Tecnologia 2017

3. Australian Research Council governance meeting, September 2018

"Having ORCID iDs for most of our researchers has helped in providing authoritative accounts in our various databases, ensuring accuracy in reviewer identities, and helping editors find reviewers and check expertise."

—Brooks Hanson, Executive Vice President, Science, American Geophysical Union



ORCID - enabled Systems



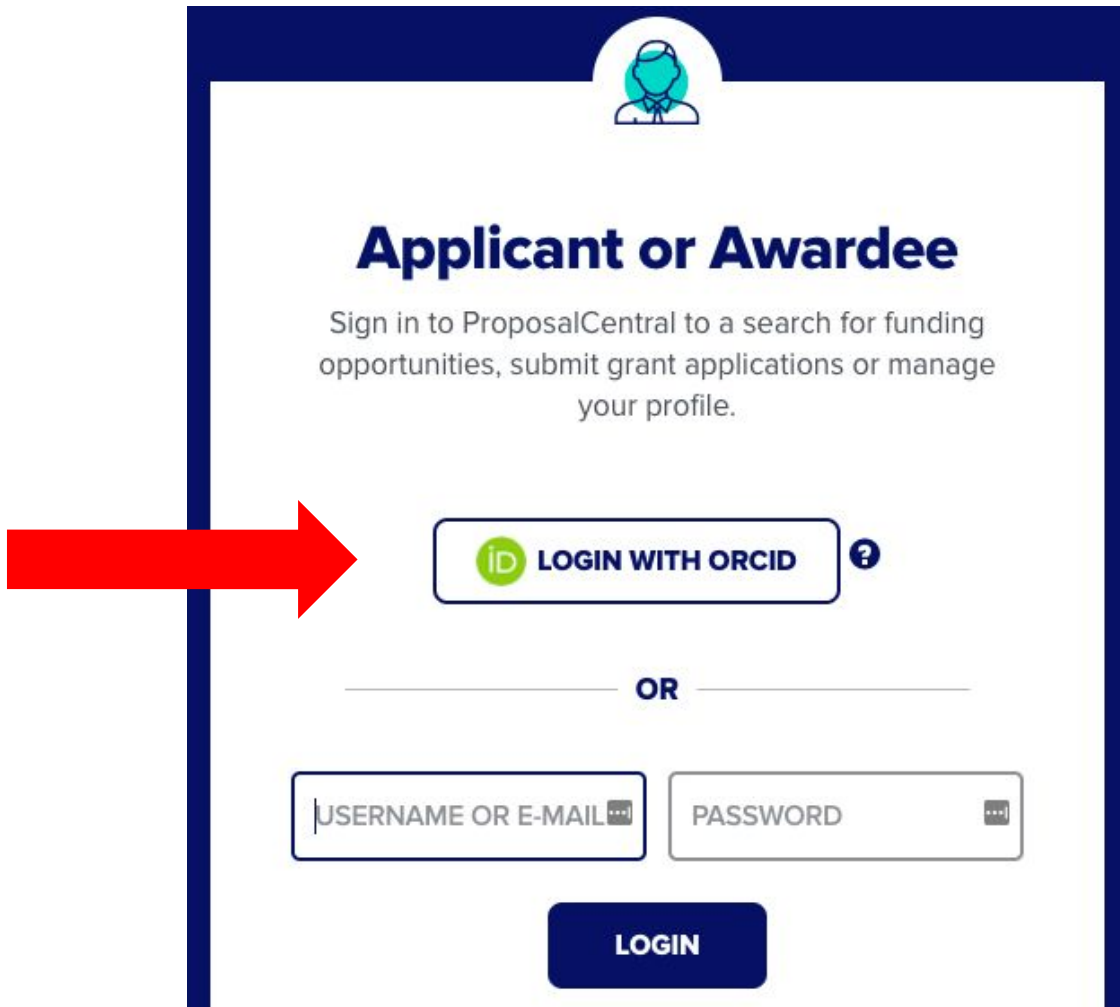
ProposalCentral




<https://altum.com/proposalcentral-makes-history-as-the-first-orcid-certified-platform-for-funders/>

<http://altum.com/wp-content/uploads/2020/06/ORCID-Integration-with-ProposalCentral.pdf>



ProposalCentral allows researchers to **sign in using ORCID**:







Applicant or Awardee

Sign in to ProposalCentral to search for funding opportunities, submit grant applications or manage your profile.

 **LOGIN WITH ORCID** 

OR





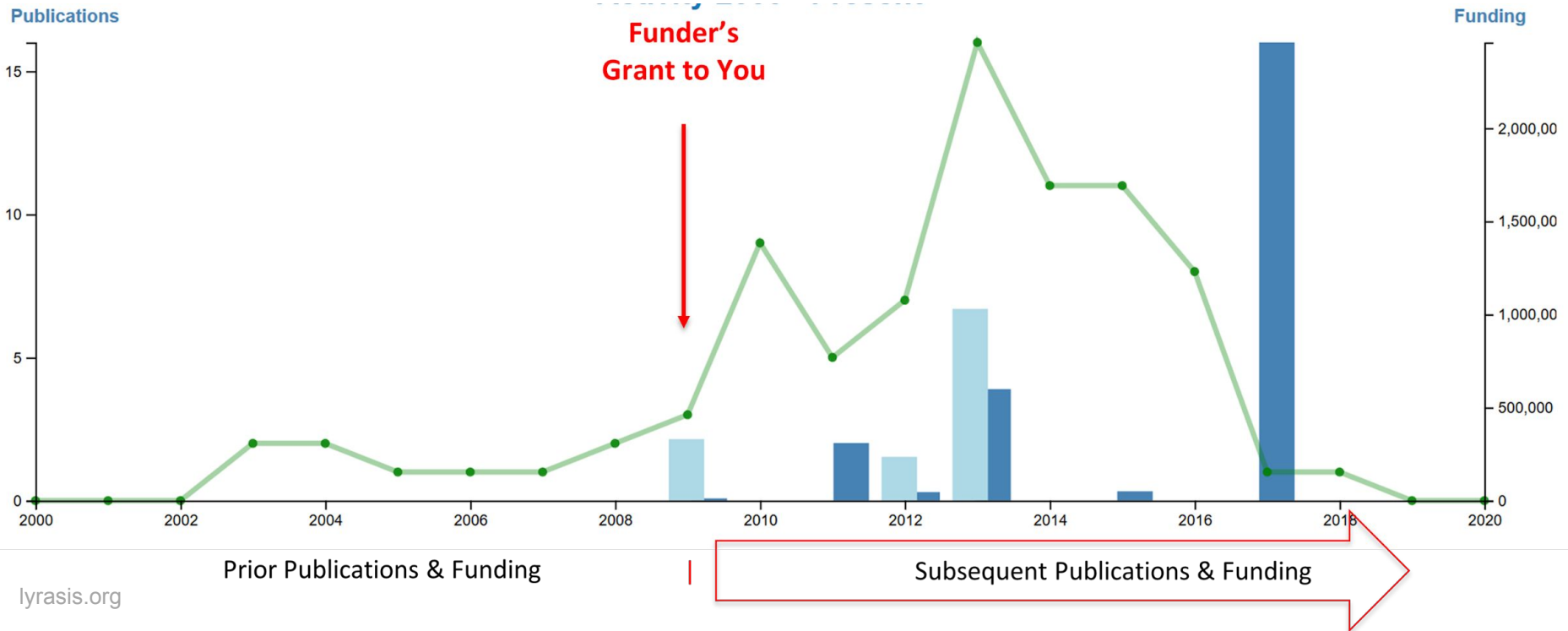
LOGIN



lyrasis.org

ProposalCentral allows funders to:

- **Get researchers' authenticated ORCID iDs**
- **Write** funding award information and reviewer contributions to ORCID records
- **Read** data from ORCID records as part of an individual career dashboard and/or programmatic evaluation module





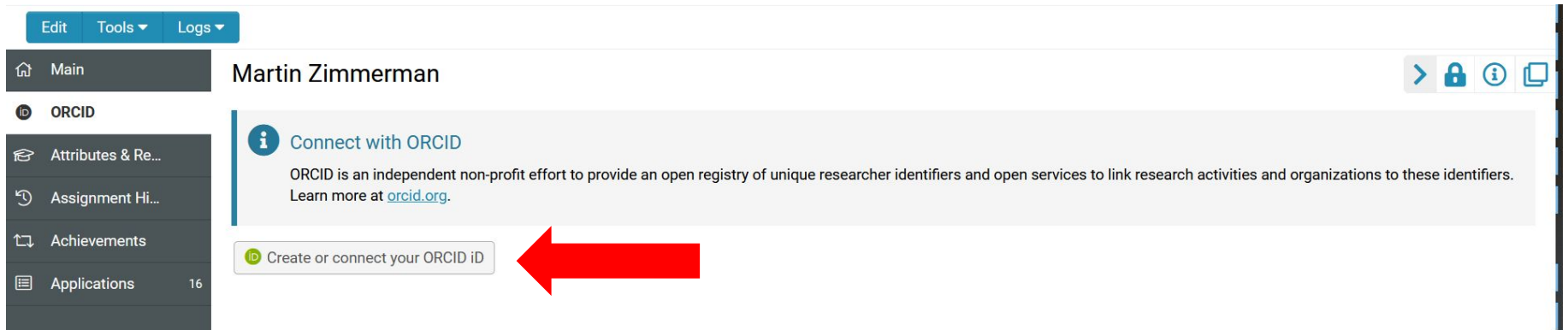
Smart Simple



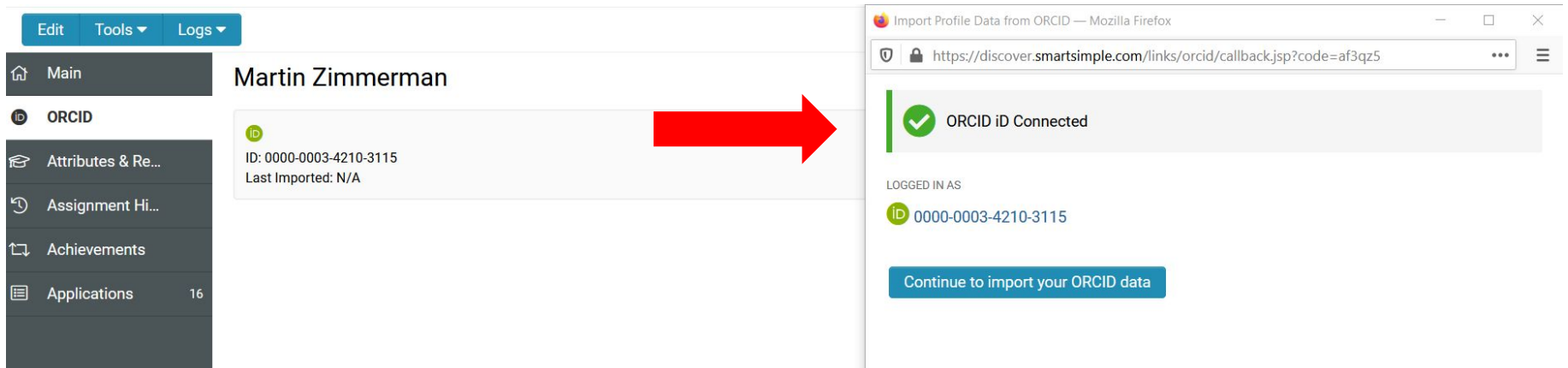
<https://www.smartsimple.com/smartsimple-cloud-research-grants-management-software>

https://wiki.smartsimple.com/wiki/ORCID_Integration

Smart Simple allows users to **connect their ORCID iD**

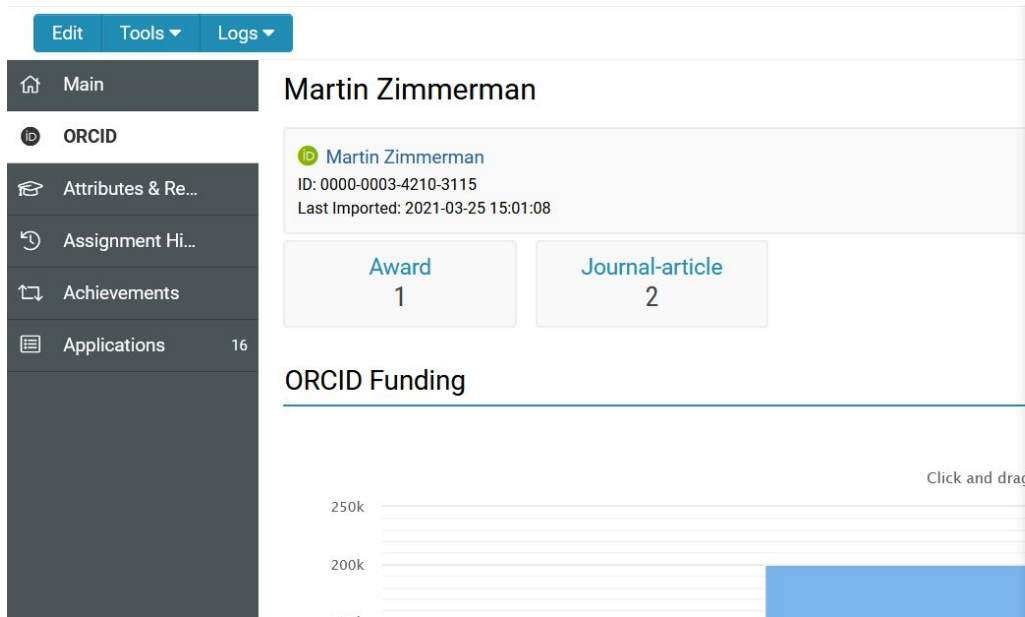


The screenshot shows the user profile for Martin Zimmerman. The left sidebar contains navigation links: Main, ORCID, Attributes & Re..., Assignment Hi..., Achievements, and Applications (16). The main content area has a header with 'Edit', 'Tools', and 'Logs' buttons. Below the header, there is a section titled 'Connect with ORCID' with an information icon. The text explains that ORCID is an independent non-profit effort to provide an open registry of unique researcher identifiers and open services to link research activities and organizations to these identifiers. A link to orcid.org is provided. Below this, a button labeled 'Create or connect your ORCID iD' is highlighted with a red arrow.

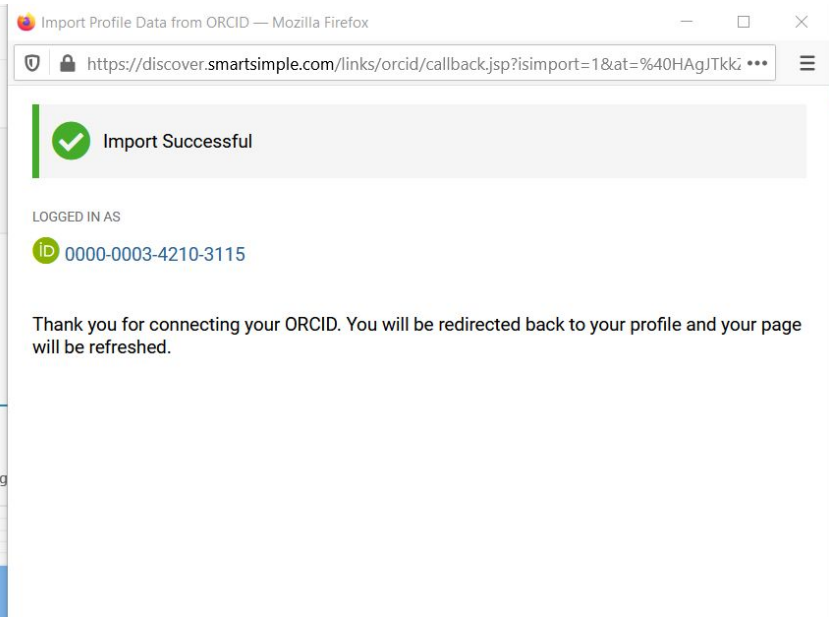


The screenshot shows the user profile for Martin Zimmerman after connecting the ORCID iD. The left sidebar is the same as in the previous screenshot. The main content area shows the 'ORCID' section with the ID 0000-0003-4210-3115 and 'Last Imported: N/A'. A red arrow points from this section to a browser window titled 'Import Profile Data from ORCID — Mozilla Firefox'. The browser window shows the URL <https://discover.smartsimple.com/links/orcid/callback.jsp?code=af3qz5>. The browser content displays a green checkmark and the text 'ORCID iD Connected'. Below this, it says 'LOGGED IN AS' followed by the ORCID ID 0000-0003-4210-3115. A blue button labeled 'Continue to import your ORCID data' is at the bottom.

Smart Simple allows users to **import information from their ORCID record** to save time:



The screenshot shows the user profile for Martin Zimmerman. The left sidebar contains navigation links: Main, ORCID, Attributes & Re..., Assignment Hi..., Achievements, and Applications (16). The main content area displays the user's name, ORCID ID (0000-0003-4210-3115), and the last import date (2021-03-25 15:01:08). Below this, there are two buttons: 'Award 1' and 'Journal-article 2'. The 'ORCID Funding' section is visible at the bottom, showing a bar chart with a blue bar representing funding data. A 'Click and drag' label is present next to the chart.



The screenshot shows a browser window titled 'Import Profile Data from ORCID — Mozilla Firefox'. The address bar displays the URL: <https://discover.smartsimple.com/links/orcid/callback.jsp?isimport=1&at=%40HAgJTkkz...>. The main content area features a green checkmark icon and the text 'Import Successful'. Below this, it says 'LOGGED IN AS' followed by the ORCID ID '0000-0003-4210-3115'. A message at the bottom states: 'Thank you for connecting your ORCID. You will be redirected back to your profile and your page will be refreshed.'

Smart Simple allows funders to **write funding information** to ORCID records:

Martin Zimmerman

ORCID iD

<https://sandbox.orcid.org/0000-0003-4210-3115>

Print view

▼ Funding (2) Sort

Genotype Phenotype Correlations in Fish

Chung-Shan Institute of Science and Technology (Chung-Shan)

2021-01-01 to 2021-12-31 | Award

GRANT_NUMBER: PD2016-1064abc

URL: <https://discover.smartsimple.com/>

Source: SmartSimple Software ★ Preferred source

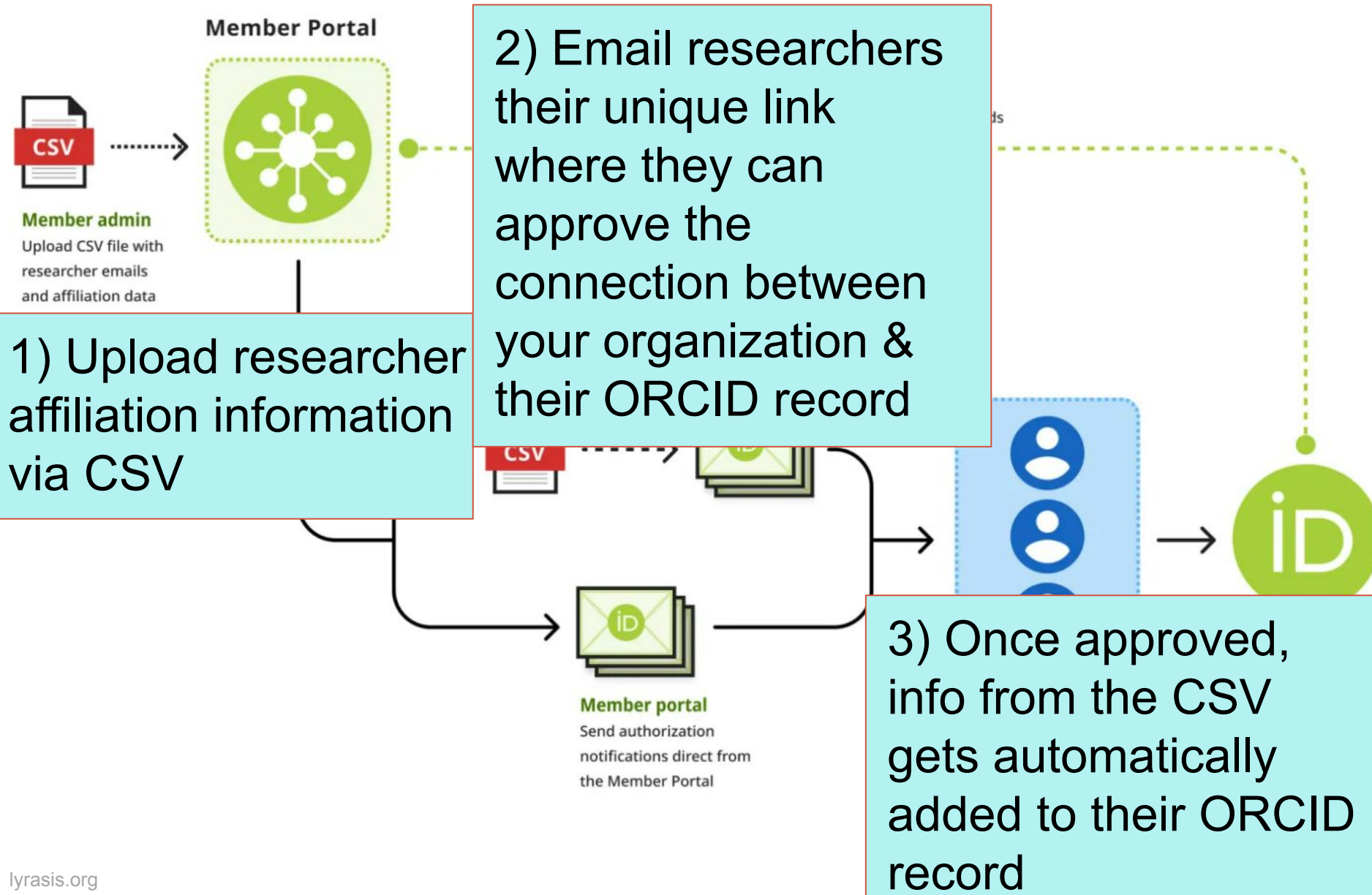


ORCID Affiliation Manager

ORCID Affiliation Manager allows organizations to **write affiliation information to ORCID records**:

- Employment
- Education
- Qualifications
- Invited Positions
- Distinctions
- Membership
- Service (for example: reviewer information)

Funding information is not included, but could be helpful if your organization has these other types of relationships with researchers...





Custom ORCID API Integration

Custom ORCID API Integration Basics

User-facing

1. Provide a web page where users can go to connect their ORCID iD with your institution/system via the ORCID API OAuth process

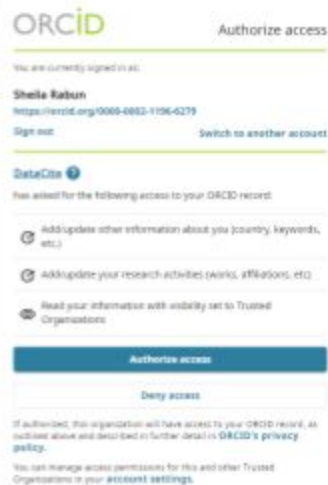
2. User will sign in or register for their ORCID iD

Sign in



Sign in form with fields for Email or 16-digit ORCID ID (example: sheila.rabun@lyrasis.org), Password, and a SIGN IN button. Links for 'Forgot your password or ORCID ID?' and 'Don't have an ORCID ID yet? Register now' are present. Below the form are options to 'Access through your institution', 'Sign in with Google', and 'Sign in with Facebook'.

3. User will grant permission for the institution/system to connect with their ORCID record



ORCID 'Authorize access' screen. It shows the user is signed in as Sheila Rabun (https://orcid.org/0000-0002-1196-6279) and lists permissions: 'DataCite' (has asked for the following access to your ORCID record) and 'Add/update other information about you (country, keywords, etc.)'. There are buttons for 'Authorize access' and 'Deny access'.



Back-end

4. ORCID info retrieved upon OAuth authorization needs to be stored in a secure backend database

ORCID info retrieved upon OAuth authorization:

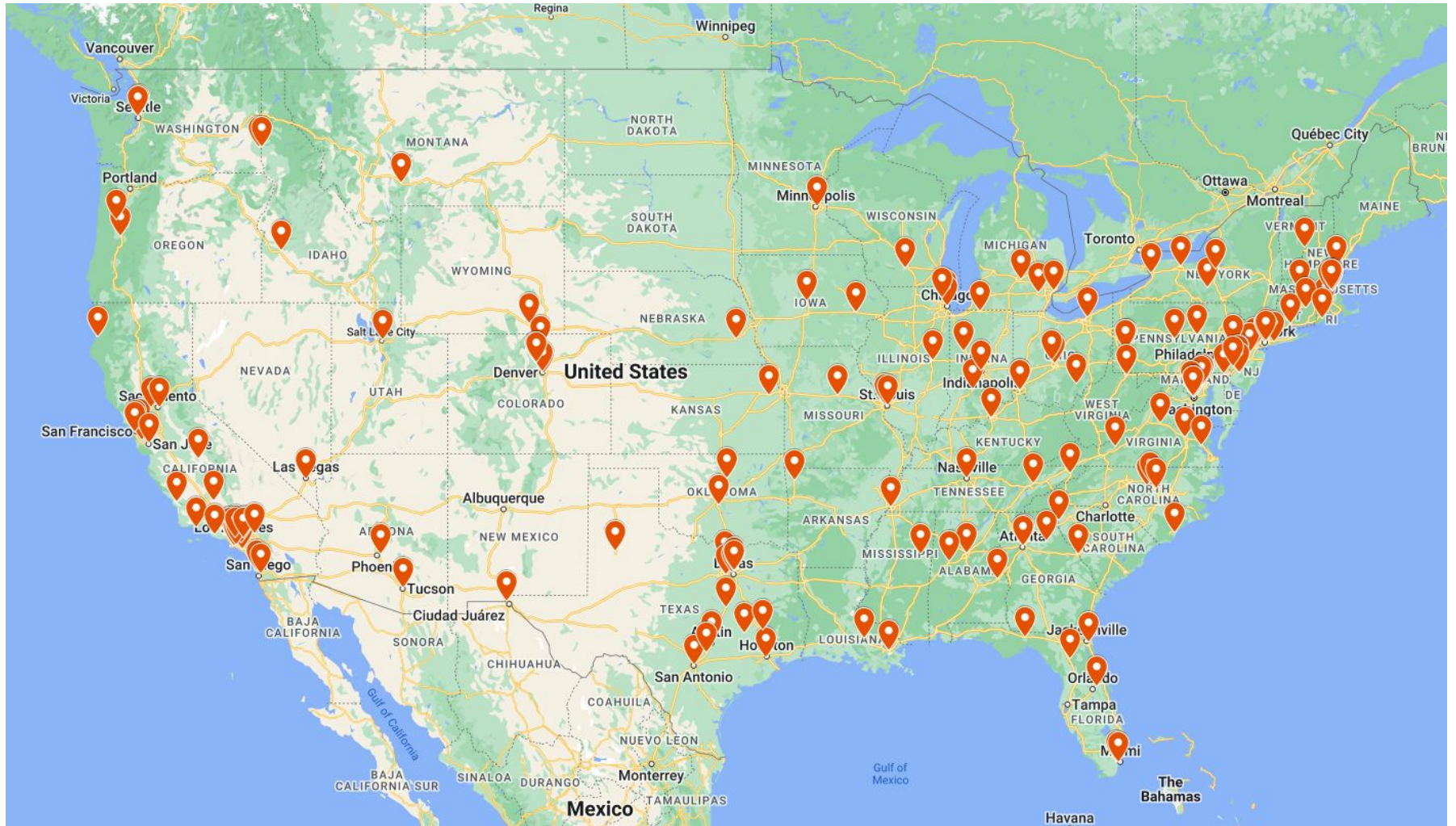
- **Name:** Sheila Rabun
- **ORCID:** 0000-0002-1196-6279
- **Access Token:** 89f0181c-168b-4d7d-831c-1fdda2d7bbbb
- **Scope:** /read-limited/activities/update/person/update
- **Refresh Token:** 60e883f6-d84e-4ae6-87f5-ef0044e3e9a7
- **Token Type:** bearer
- **Expires In:** 631138518

5. Use the ORCID iD and access token to read from or write to the user's ORCID record, using API calls

```
curl -i -H "Accept: application/vnd.orcid+xml" -H 'Authorization: Bearer 89f0181c-168b-4d7d-831c-1fdda2d7bbbb' 'https://api.sandbox.orcid.org/v3.0/000-0002-1196-6279/works'
```



ORCID US Community



<https://orcidus.lyrasis.org/>

Funders

- American Heart Association
- Autism Speaks
- Breast Cancer Research Foundation
- Children's Tumor Foundation
- Damon Runyon Cancer Research Foundation
- Fred Hutchinson Cancer Center
- Melanoma Research Alliance
- The Nemours Foundation

ORCID US Community Consortium

- Currently 178+ members: universities, funders, and other non-profit research organizations
- Building a community of practice around ORCID - leveraging the benefits of ORCID as a “trusted organization”
- 5 premium ORCID API keys
- Annual fee: \$4,800





Thank you!

Web <https://orcidus.lyrasis.org/>
Email orcidus@lyrasis.org
