ORCiD
Connecting Research
and Researchers

What is ORCID?

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.

ORCID Services

1. Free unique identifier for researchers
2. Record to document research activities
3. API to transfer this data between systems

ORCID for Graduate Students

ORCID

Free Unique Identifier

Sofia Maria Hernandez Garcia

ORCID iD

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

ORCID Record:

Sofia Maria Hernandez Garcia

ORCID iD

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

Print view

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

Websites & Social Links
Faculty profile webpage
@sofiamhg

Country
United States

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

Email
s.garcia@orcid.org

Biography

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

Employment (1) — Sort

New Arizona State University: Sedona, Arizona, US
2015-09 to present | Associate Professor (Department of Geography)
Employment
Source: Sofia Maria Hernandez Garcia ★ Preferred source

Education and qualifications (3) — Sort

London School of Physics: London, GB
2016 to 2018 | PhD (Computer Science)
Qualification
Source: Sofia Maria Hernandez Garcia ★ Preferred source

Universidad Politécnica de Madrid: Madrid, Comunidad de Madrid, ES
2008-09 to 2012-05 | BA Computer Science
Education
Source: Sofia Maria Hernandez Garcia ★ Preferred source

University of Kingston: Kingston, JM
2010 to 2012 | UX Design Certificate (User Experience)
Qualification
Source: Sofia Maria Hernandez Garcia ★ Preferred source

ORCID Record:

Awards can be written to ORCID records, labeled as “Distinctions”

3MT Awards at various universities and graduate associations are currently in the works

Invited positions and distinctions (3)

Royal Society of Arctic Studies: Iqaluit, Nunavut, CA
2015 | Rutherford Medal of Innovation (Iceberg - Thermodynamics LAB)
Distinction

Source: Sofia Maria Hernandez Garcia

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Email
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Works (3 of 3) Sort

CASRAI and ORCID: Putting the Pieces together to Collaboratively Support the Research Community
Procedia Computer Science
2014 | journal-article
DOI: 10.1016/j.procs.2014.06.045
Part of ISSN: 1877-0509
Source: Sofia Maria Hernandez Garcia *via* Crossref Metadata Search ★ Preferred source (of 2)

ORCID Annual Public Data File, 2013
2013 | data-set
DOI: 10.14454/07243.2013.001
Source: DataCite ★ Preferred source

ORCID: a system to uniquely identify researchers
Learned Publishing
2012-10-01 | journal-article
DOI: 10.1087/20120404
Part of ISSN: 0953-1513
Source: Sofia Maria Hernandez Garcia *via* Crossref Metadata Search ★ Preferred source (of 3)

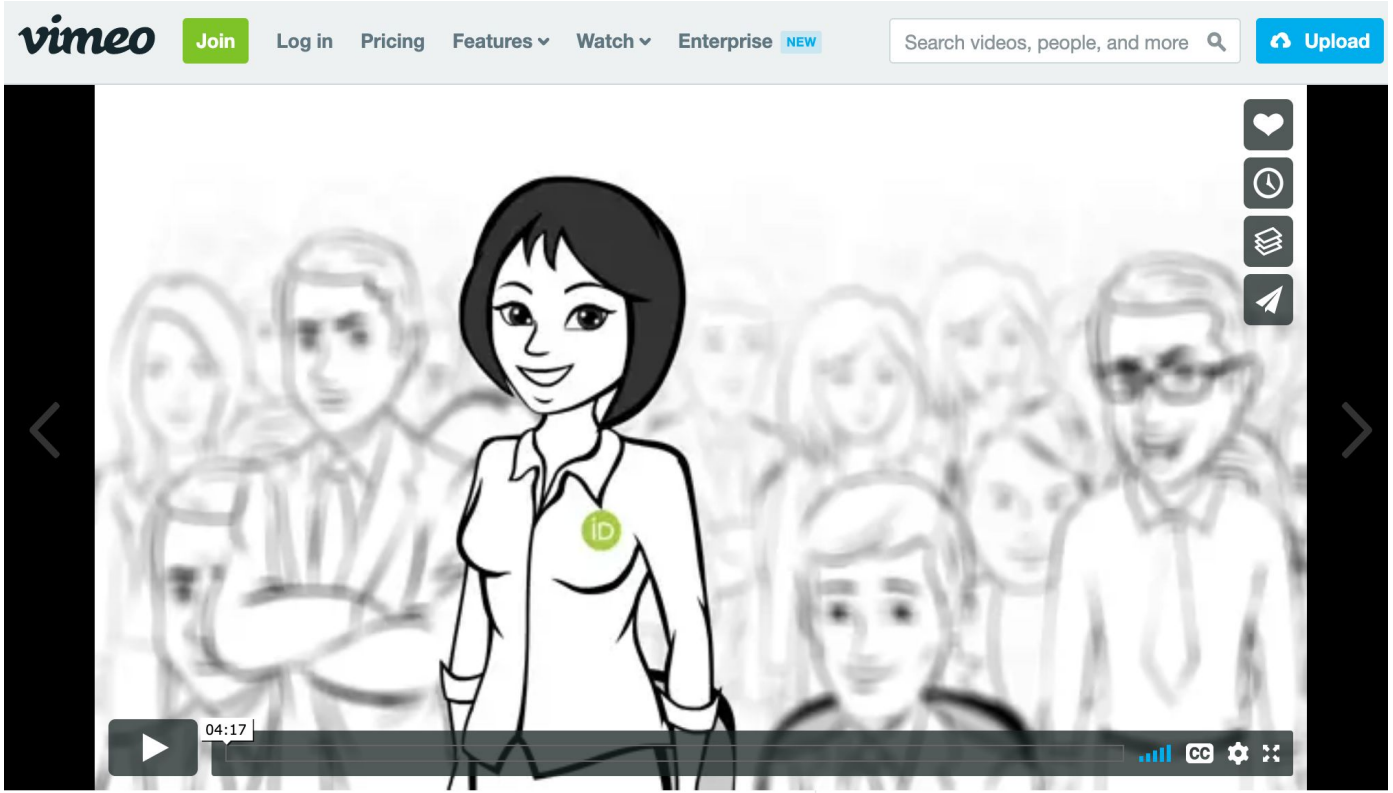
Specific Benefits for Grad Students

1. Get an ORCID iD & Record early in their scholarly career
2. Begin building their ORCID record from the start so they don't have to retroactively add contact later
3. Grad students will carry this iD with them throughout their research career
4. They will see content added to their ORCID record from publishers, funders and employers
5. They will experience the efficiency of logging into a system with their ORCID iD, content will be pre-populated for them

ORCID Blog post: Empowering Graduate Students Research: Linking ORCID Identifiers to Theses and Dissertations, https://orcid.org/blog/2014/03/20/theses-dissertations-orcid

What is ORCID?

https://vimeo.com/97150912

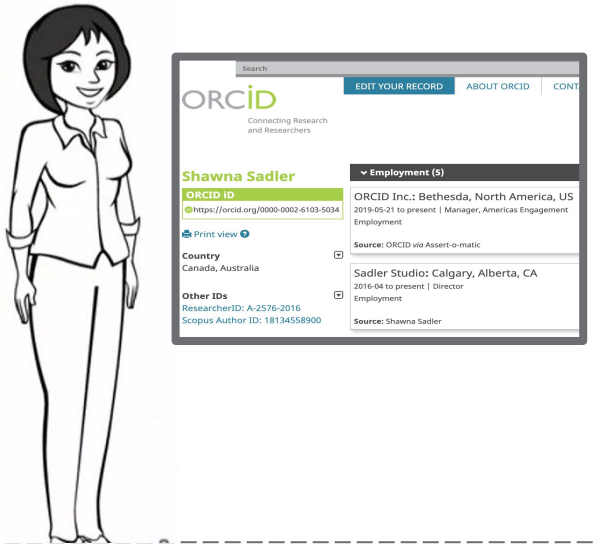


ORCID for Librarians & Graduate School Administrators

Researcher

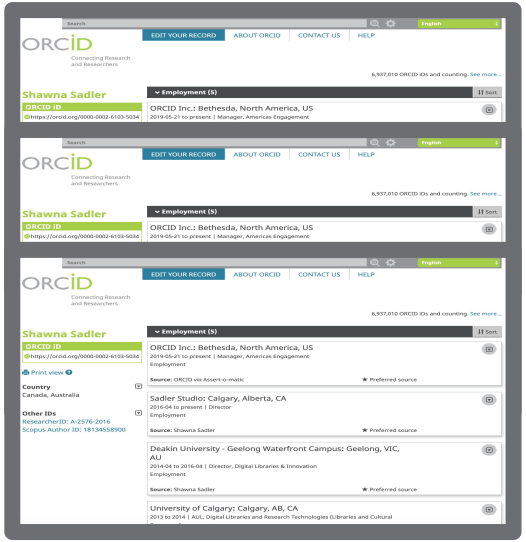
1) Researcher creates ORCID iD

2) Populates record



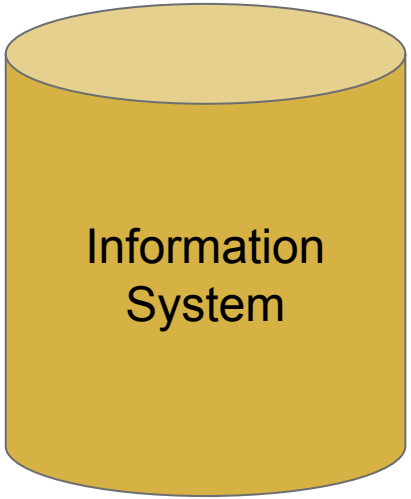
ORCID

All records are saved in the ORCID Registry



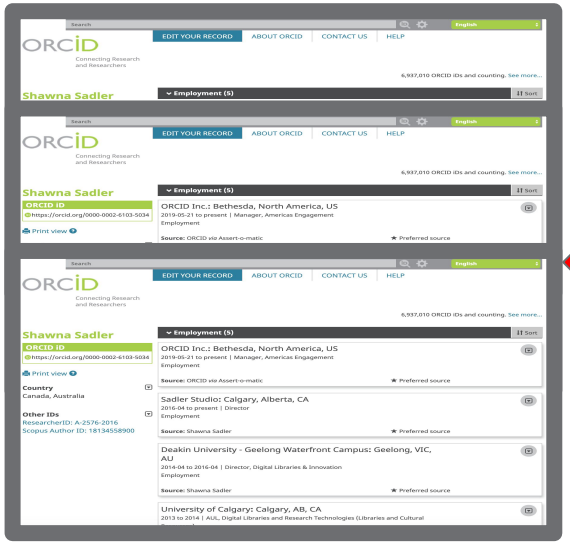
Your Organization

API Transfer ORCID data to your System



API Technology to Transfer Data

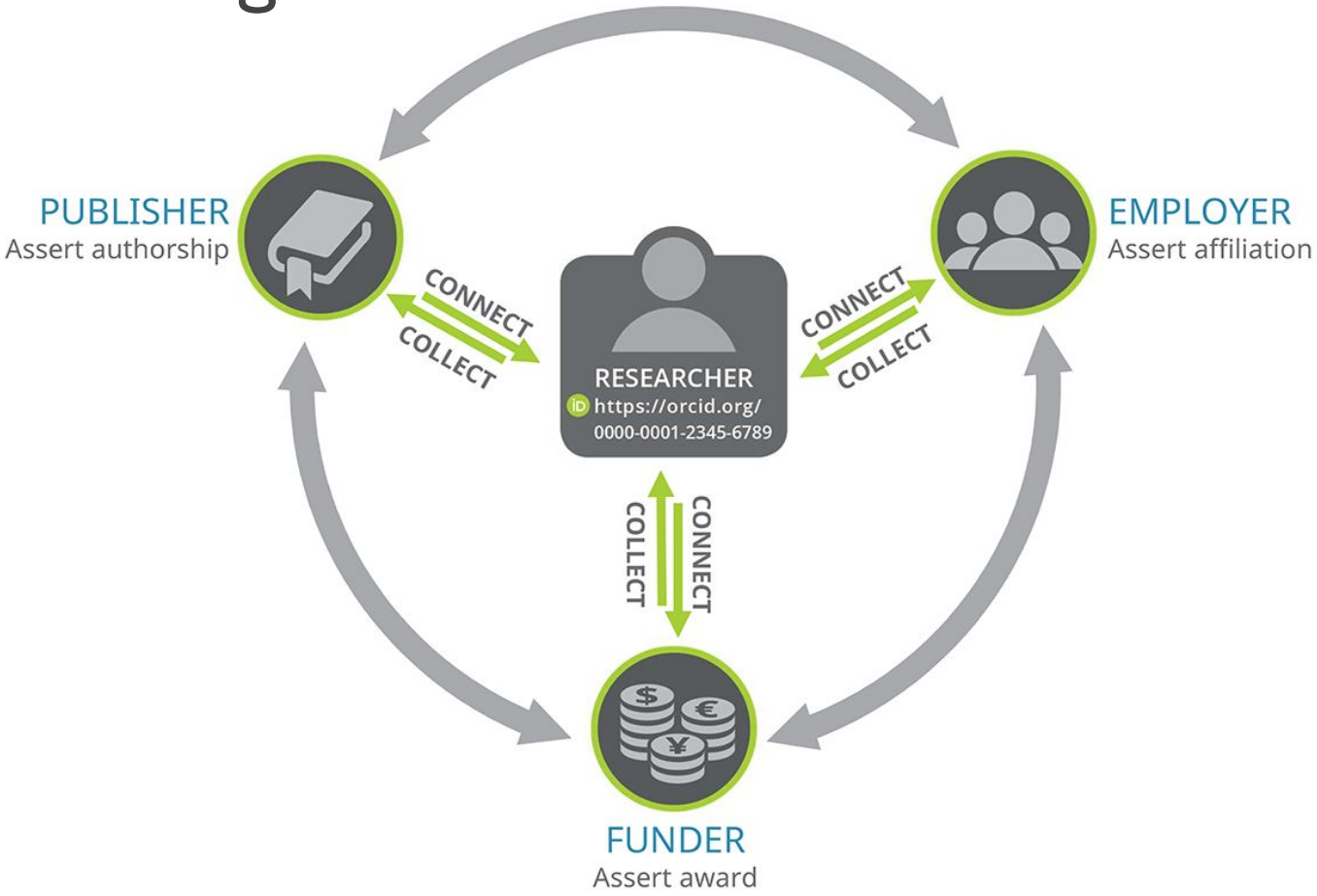
ORCID Registry



ORCID API

Information System

ORCID for Organizations



ORCID for Grad School Administrators

- Get data on current students for reporting
- Analyze data on Grad students works & funding
- Call data on Alumni for reporting
- Create great stories of success for Executive & Communication pieces

ORCID for Librarians & Archivists

- ORCID iD is a unique identifier
- So published work can be attributed to the right person
- This also enables researchers to change their name without repercussion to their scholarly record.
- The ORCID registry is open to be harvested
- Improving access and discoverability to the research
- Your ETD system is similar to a publisher's manuscript submission system
- You accept works, validate the work & author, add an ORCID iD and in essence, publish it.

What other Graduate Schools are doing in the US

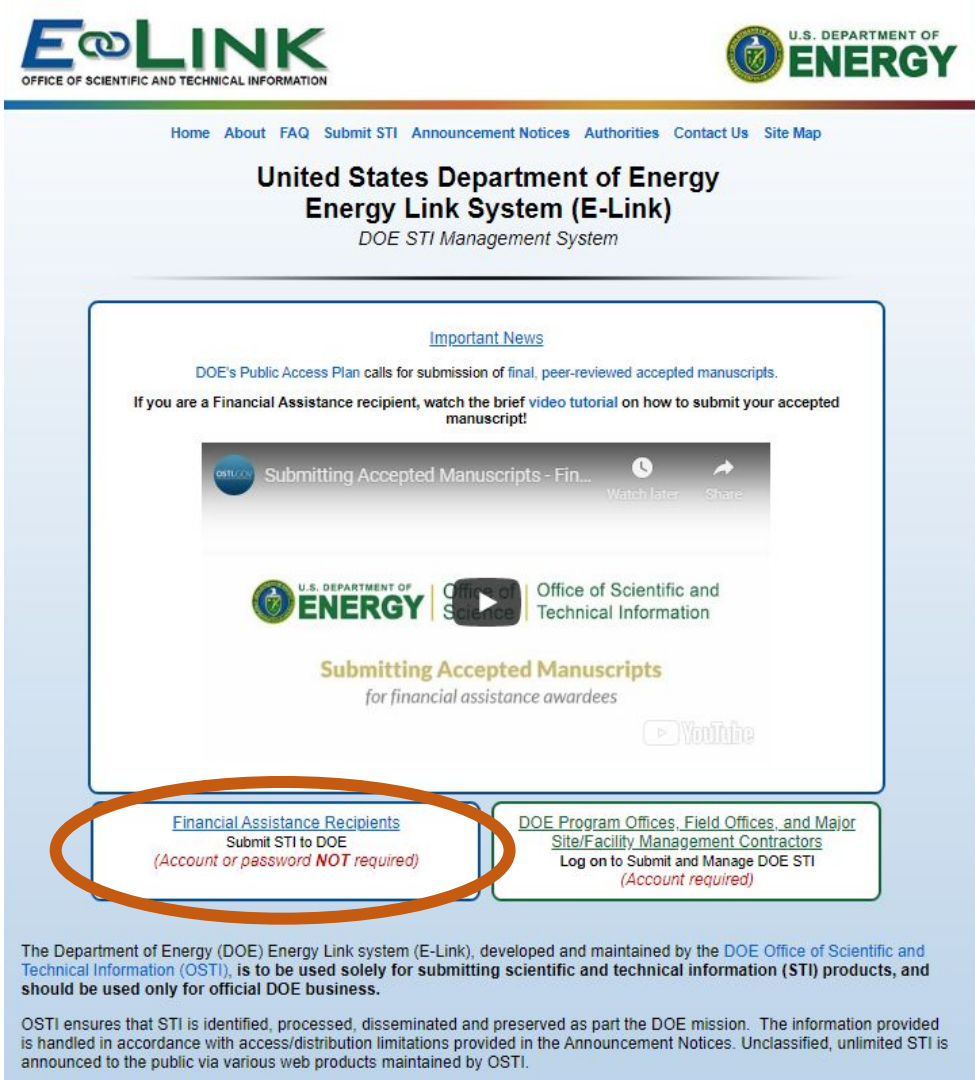
- **Univ. of Texas Southwestern Medical Center** – requiring all learners to get an ORCID iD and connect it with UTSW's centralized ORCID integration,**https://lyrasisnow.org/orcid-for-learners-at-ut-southwestern-medical-center/**
- **Univ. of Maryland** – ORCID membership is led by the graduate school and all grad students are encouraged to connect their ORCID iD
- **Univ. of Massachusetts at Amherst** – Graduate Council approved mandatory ORCID iDs for students finishing their degrees
- **Indiana University Bloomington** – typically promotes ORCID at grad student receptions at the beginning of each semester
- **Texas A&M** – all grad students must have an ORCID iD when they submit their ETD
- **Univ. of Virginia** – ORCID API is integrated with ETD Repository (Samvera) although ORCID iDs are optional, not required.
- **Augusta University** - ORCID iDs are highly encouraged when submitting ETDs; ORCID is promoted at graduate school orientation during the Libraries session, as well as covered in specific graduate courses (e.g. Scholarly Communications for Nursing PhDs). Our hope in the future is to have ORCID iDs required by all graduate students.

Funding agency deposit

US Department of Energy

E-Link

https://www.osti.gov/elink/



On Improving Analytical Models of Cosmic Reionization for Matching Numerical Simulations

THESIS/DISSERTATION:

View Thesis/Dissertation

DOI: 10.2172/1258785

OTHER AVAILABILITY

Please see Document Availability for additional information on obtaining the full-text document. Library patrons may search WorldCat to identify libraries that hold this thesis or dissertation.

SAVE / SHARE:

Export Metadata
Save to My Library

Abstract

The methods for studying the epoch of cosmic reionization vary from full radiative transfer simulations to purely analytical models. While numerical approaches are computationally expensive and are not suitable for generating many mock catalogs, analytical methods are based on assumptions and approximations. We explore the interconnection between both methods. First, we ask how the analytical framework of excursion set formalism can be used for statistical analysis of numerical simulations and visual representation of the morphology of ionization fronts. Second, we explore the methods of training the analytical model on a given numerical simulation. We present a new code which emerged from this study. Its main application is to match the analytical model with a numerical simulation. Then, it allows one to generate mock reionization catalogs with volumes exceeding the original simulation quickly and computationally inexpensively, meanwhile reproducing large scale statistical properties. These mock catalogs are particularly useful for CMB polarization and 21cm experiments, where large volumes are required to simulate the observed signal.

Authors: Kaurov, Alexander A. [1]

Search OSTI.GOV for author "Kaurov, Alexander A."
Search OSTI.GOV for ORCID "0000-0003-0255-1204"
Search orcid.org for ORCID "0000-0003-0255-1204"

Publication Date:

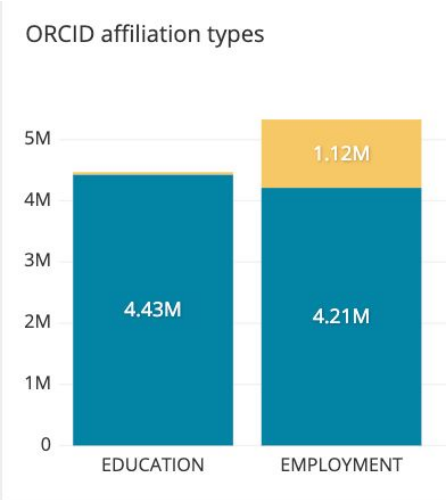
Research Org.: Fermi National Accelerator Lab. (FNAL), Batavia, IL (United States)

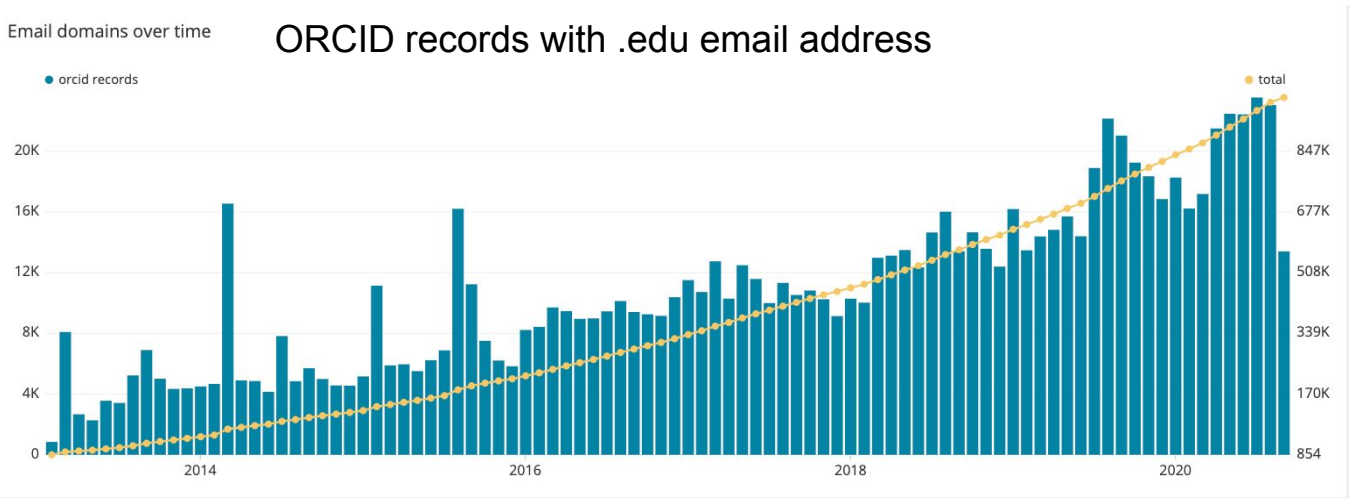
Sponsoring Org.: USDOE Office of Science (SC), High Energy Physics (HEP) (SC-25)

OSTI Identifier: 1258785

ORCID stats

- 9.5 Million ORCID iDs issued around the world in every discipline
- 4.43 million records include Education
- 150,000 works “Thesis” “Dissertation”
- Almost 1 Million ORCID Records with .edu email address affiliation





Written to ORCID records

- Over 9.5 million ORCID iDs issued
- 61,230,789 works entries in ORCID registry as of September 18, 2020
- 49,261,384 of those works were written to ORCID by member organizations via ORCID API

Top organizations adding works:

- Scopus - Elsevier (23,636,460)
- ResearcherID (6,233,393)
- Crossref (4,365,093)
- Europe PubMed Central (3,258,675)
- Crossref Metadata Search (2,692,894)
- CIÃNCIAVITAE (1,162,793
- Publons (1,071,310)
- NASA Astrophysics Data System (491,603)
- DataCite (187,036)
- University of Helsinki (163,141)
- University of Hong Kong (141,980)
- BASE - Bielefeld Academic Search Engine (166,263))
- New York University (109,458)