It Takes a Village to Grow ORCiDs on Campus: Establishing and Integrating Unique Scholar Identifiers at Texas A&M

Gail Clement, Micah Cooper, Douglas Hahn, Violeta Ilik, Sandra Tucker

Texas A&M University Libraries
Distinguish Yourself with

ORCiD

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What is an ORCiD?

- Open Researcher & Contributor ID
- Unique 16-digit author identifier: xxxx-xxxx-xxxx-xxxx
- Also, the organization, ORCID
- Stored in central, non-profit registry of unique identifiers for individual researchers worldwide
- Provides linking mechanism between author and his/her works, grants, other research-related assets
Benefit of ORCiD

- Solves the name ambiguity problem
- ORCiD can be associated with Scopus ID and Researcher ID (Web of Knowledge)
- Apps allow transfer of records between ORCID and these two
- Publishers participating because of benefits to them
What is the ORCID project at Texas A&M?

- University program to integrate standard author identifiers into the profiles of all Texas A&M faculty, students, and staff (think UINs but for researchers)
- Aimed first at graduate students and post-docs
- Others can participate on request
- Grant-funded by Alfred P. Sloan Foundation
Why was the grant awarded to Texas A&M?

- Known for electronic thesis and dissertation (ETD) system
- Vireo ETD submission system developed by programmers at University Libraries for DSpace open-source repository software
- TAMU Thesis Office first to implement
- Vireo has been adopted by Michigan, Colorado, Missouri, BU, other universities
Advantages

- Starting in early career means preventing name ambiguity from the outset.
- As the student creates more works and applies for external funding, he or she will already have the ORCID required by publisher or agency.
- Colleges will be able to search the ORCIDs of former students to follow their progress.
Next Speaker...
Technical Implementation: Creating and Managing ORCiDs

Douglas C. Hahn
Sr. IT Manager
0000-0003-4327-0476
The project

Conversations with campus IT

Division of labor

Integration and support

The process we followed to create the ORCiDs

Lessons learned
All graduate students will have an ORCiD created for them by TAMU and stored for later use.

- What is an ORCiD?
- An identifying number tied to a person that is associated with all types of research.
- Maybe this is something that campus IT might be interested in tackling.
Early on in the project we started having conversations with campus IT.

- Everyone involved knew that placing the ORCiD in the campus directory just made sense.
- Once in the campus directory it could be exposed through Shibboleth, and existing web services.
- Campus IT was excited about the project and were immediately on-board!
- Except for one thing...
- Campus IT was extremely busy and wouldn’t be able to help with the project anytime soon.
Next Steps with Campus IT

If the Library builds it, campus IT will use it.

- ORCiD would be stored in Campus LDAP.
- Campus IT would ensure that ORCiDs would be exposed by campus Shibboleth and Web Services.
- The Library would undertake the process for creating the ORCiDs.
- The Library would provide front line support for any questions surrounding ORCiDs.
- The Library would maintain an authoritative list of known ORCiDs that would be sent to campus LDAP daily.
- This list would overwrite all existing ORCiDs in campus directory.
Early on we realized that two distinct applications were going to be needed.

- One application was going to be needed to process all the graduate students and create ORCiDs.
- Another application was needed for the ongoing support and integration into other applications.
Web front ends that other applications can direct patrons to that expose the ORCiD API.

Generic Web Services that can be used by other TAMU applications related to ORCiD.

Provide a simple one stop application to manage tasks surrounding ORCiDs at TAMU.
Creating of ORCiDs

Of the two aspects of the project creating the ORCiDs was the easiest.

• Understand the published API from ORCiD.
• Test various processes.
• Working with librarians on outreach (mass emails).
TAMU uses API to create new ORCiD with Last, First, email

Email sent to patron with information about ORCiD

Patron goes to ORCiD to claim ID and add additional info

TAMU asks for READ limited to patron account

TAMU stores token with READ access for later use
Nothing glamorous or exciting about the scripts we used to create the ORCiDs.

Backend database full of graduate students.

2 PHP scripts were created. Main program, and the utilities. Maybe 400 lines of code max.

All of the scripts were based off of various command lines examples that can be found in the ORCiD knowledgebase.

01/2014 – Email to patrons telling them about ORCiD.
02/2014 – Email to patrons telling them we are creating.
03/2014 – created 10,000 ORCiD in about 4 hours.
Lessons Learned

Spend more time with the ORCiD knowledge base.

Tokens granted to institutions by patrons can be complicated and may not allow you to do what you hope for.

Use the ORCiD sandbox more to test out all the features available to you.
Next Speaker...
Technical Implementation: Integrating ORCIDs into Vireo

Micah Cooper
Lead Software Applications Developer

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I CAN HAZ
LIVE DEMO?
But there will be XML!
• Get the student’s ORCiD
• Verify the student’s ORCiD
• Export the ETD record as an ORCiD work.
• Published to the student’s ORCiD profile.
How do we get an ORCiD?

- Shibboleth
- Manual Input
- Direct the student to obtain an ORCiD

![Personal Information Form]

- First Name: Billy
- Middle Name: Bob
- Last Name: Thornton
- Email: bthornton@gmail.com
- ORCID id: 1234-1234-1234-1234
What if a student doesn’t have an ORCiD?
Verify the ORCiD

- Validates against ORCiD central public API
- Can check against First and Last Name
Export to an ORCiD work
POST update using CURL

curl -H 'Content-Type: application/vnd.orcid+xml' -H 'Authorization: Bearer 4511576a-eaa1-48a4-b282-4fab5f889f87' -d '@/Documents/updated_works.xml' -X PUT 'https://api.sandbox.orcid.org/v1.1/0000-0003-1495-7122/orcid-works'
Configurable

ORCID SETTINGS

Validate ORCID ID: Yes  No

Authenticate ORCID ID: Yes  No
ORCiD Management App

- Mint ORCiDs
- Manage existing ORCiDs
- Automate publishing
The Future

- Better validation
- Multi-template export
- More feasible authorization
- Multiple ORCiDs for one user
Thanks!

Find me if you’re really interested in a live demo.
Next Speaker...
Technical Implementation: Integrating ORCiDs into VIVO

Violeta Ilik
Assistant Professor
Semantic Technologies Librarian
0000-0003-2588-3084
Technical Implementation: Integrating ORCiDs into VIVO

A key strategic direction of the Libraries is to “advance and support changes in scholarly communications in a way that supports the faculty and students of TAMU” (Texas A&M Libraries, 2011).
VIVO: A Semantic Approach to Scholarly Networking and Discovery by Borner, Conlon, Corson-Rikert, and Ding (2012)

VIVO is a “tool for representing information about research and researchers – their scholarly works, research interests, and organizational relationships. VIVO provides an expressive ontology, tools for managing the ontology, and a platform for using the ontology to create and manage linked open data for scholarship and discovery.”
Technical Implementation: Integrating ORCiDs into VIVO

ORCiDs for graduate students are currently in the VIVO @ TAMU platform
Technical Implementation: Integrating ORCiDs into VIVO

- ORCiDs for graduate students are also in the internally facing VIVO platform
- Use cases: show advisor and advisee relationships; PhD theses of former TAMU graduate students; co-author networks, etc.
Technical Implementation: Integrating ORCiDs into VIVO

Grigorchuk, Rostislav I. | Distinguished Professor

Positions
› Mathematics, College of Science

Research Areas
Combinatorial group theory | Dynamical systems

✉ grigorch@math.tamu.edu

📞 (979) 845-7533

› Rostislav I. Grigorchuk Home Page
Technical Implementation: Integrating ORCiDs into VIVO

Dr. Grigorchuk’s advisees

<table>
<thead>
<tr>
<th>Teaching</th>
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<tr>
<td>Kravchenko, Rostyslav V., Ph.D. candidate, 2005 - 2010</td>
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<tr>
<td>Muntyan, Yevgen, Ph.D. candidate, 2004 - 2009</td>
</tr>
<tr>
<td>Savchuk, Dmytro, Ph.D. candidate, 2004 - 2009</td>
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</table>
Technical Implementation: Integrating ORCiDs into VIVO

Dr. Grigorchuk’s advisees

TAMU Former Student RDF

Bondarenko, Ievgen V.
Kravchenko, Rostyslav V.
Muntyan, Yevgen
Savchuk, Dmytro
Technical Implementation: Integrating ORCiDs into VIVO

Bondarenko, Levgen V. | TAMU Former Student

Publications

selected publications

academic article


Classification of groups generated by 3-state automata over a 2-letter alphabet. *Algebra and Discrete Mathematics*. 1–163. 2008


thesis

Groups generated by bounded automata and their Schreier graphs 2007
Technical Implementation: Integrating ORCiDs into VIVO

```xml
<rdf:Description rdf:about="http://vivo.library.tamu.edu/individual/n2842">
  <rdfs:label xml:lang="en-US">Groups generated by bounded automata and their Schreier graphs</rdfs:label>
</rdf:Description>

<rdf:Description rdf:about="http://vivoweb.org/ontology/degree/academicDegree98">
</rdf:Description>

<rdf:Description rdf:about="http://vivoweb.org/ontology/core#yearPrecision">
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</rdf:Description>

<rdf:Description rdf:about="http://vivo.library.tamu.edu/individual/n2467">
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  <rdf:type rdf:resource="http://vivoweb.org/ontology/core#Relationship"/>
  <rdf:type rdf:resource="http://vivoweb.org/ontology/core#Authorship"/>
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  <vivo:linkedInformationResource rdf:resource="http://vivo.library.tamu.edu/individual/n5154"/>
</rdf:Description>

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  <vivo:linkedInformationResource rdf:resource="http://vivo.library.tamu.edu/individual/n5350"/>
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</rdf:Description>
```
Next Speaker...
Outreach and User Support

Gail Clement
Associate Professor
Scholarly Communication Librarian
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Goals of Campus ORCiD Integration for early career scholars & professionals

• Establish scholarly identity at start of career
• Position new scholars for ready success with publishers, funding agencies, and other research support systems requiring ORCiDs
• Develop scalable and trusted infrastructure for tracking student outcomes over time
• Build greater publishing capacity for Libraries and University
Plan for Integration or ORCiDs

- Clear policy hurdles with University administration
- Join ORCiD for access to API and Tech support
- Mint ORCiDs for 10,000+ graduate students
- Conduct outreach and training to support new and existing ORCiD owners
- Integrate ORCiDs into key information systems, incl. Vireo ETD submission and management system
- Develop ORCiD app for sustainable management of ORCiDs over time
- Expand program to cover faculty and research staff
Mobilizing a Community!

Rudder’s Rangers assaulting Pointe Du Hoc, Normandy, June 1944
http://upload.wikimedia.org/wikipedia/commons/7/7f/Rangers-pointe-du-hoc.jpg
Progress To Date

- 10,334 ORCiDs minted for graduate students
- 2,138 claimed in first 9 days
- Unclaimed ORCiDs due to variety of reasons:
  - Email not working (120)
  - Email not checked despite university requirement (lots)
  - Email checked but instructions not followed (some)
  - Students who claim almost universally pleased to have an ORCiD
- One student objected to our minting the ORCiD
Lessons Learned So Far

- Technical approach needed to success at scale ORCiD minting system
- High-touch system equally essential to jump seams with technology, engage users and attain buy in
Establishing Your Scholarly/Professional Identity with ORCID

A Care and Feeding Manual for Texas A&M Graduate Students

Created by:
Gail Coates, Associate Professor, Office of Scholarly Communication, Libraries, Texas A&M University

ORCID Integration at Texas A&M

Questions and Answers

1. So, what exactly is happening here at Texas A&M with regard to ORCID?
   In mid-2013, a small team from the University Libraries responded to a call for proposals from ORCID, for innovative integrations of ORCID identifiers into university, publisher, and other scholarly agents. The University Libraries were awarded a grant from the Andrew W. Mellon Foundation to successfully implement an integrative ORCID system across the university.

2. How can I get an ORCID Identifier?
   In 2014, the Texas A&M University Libraries is working with ORCID staff to create ORCID identifiers for students. Each time a student is issued a faculty card and becomes a member of the Texas A&M Libraries, their ORCID identifier will be created. This identifier will link to their personal ORCID profile and allow them to be identified and tracked across multiple scholarly activities.

3. How can I complete the ORCID profile?
   When ORCID creates an identifier for a Texas A&M scholar, the organization sends an email to that scholar with a unique identifier, an ORCID iD, and a temporary password. It is the scholar’s responsibility to complete this profile and change their password. Also, you will be able to change settings on your ORCID account to control what information you display to the public.

4. What if it already has an ORCID identifier before the Libraries creates one for me?
   If you already have an ORCID identifier, you can use it by inputting your ORCID identifier on the Libraries ORCID form. If you do not have an ORCID identifier, you can create one by visiting their website and linking it to your profile.

5. If I end up with multiple ORCID identifiers, how do I resolve and use the Libraries' identifier?
   We are doing everything we can to avoid this scenario by selecting an ORCID to check their existing records before creating a new one. If for any reason, you have multiple ORCID identifiers, you will need to contact the Libraries to merge them into one. This will ensure that your scholarly contributions are properly acknowledged and that you have a single identity recognized by the Libraries.
Support at Point of Need
Integration with Library Public Services

AskUs - Search Our Frequently Asked Questions.

Search Results For: Orcid

As a faculty member at Texas A&M and a doctoral student at another university, how do I avoid getting two ORCIDs?
Answered on: Feb 08 2014, 12:55pm

I already have an ORCID, will you check the database before assigning new ones to people who have already registered?
Answered on: Feb 06 2014, 03:00pm

Should I get an ORCID now if I am getting married and soon will be changing my name?
Answered on: Feb 06 2014, 05:27pm

Didn’t Find Your Answer?
Chat With Us Or Submit Your Question On The Form.

Submit your question to us and receive the answer by email!
Your Question
Integration with Graduate School Service

Office of Graduate and Professional Studies

You must login to register.

The ORCID Librarian Is In (theThesis Office)!

Date: Monday, April 14, 2014 - 3:00pm - 4:00pm
Hosted By: TAMU Libraries and the Office of Graduate and Professional Studies, Thesis Office
Building: Evans Library (LIBR)6
Room: 1.612, 6th Floor
Presenter(s): University Libraries

Description:
Graduate students and their faculty advisers are invited to come by the Thesis Office for ORCID drop in help. Want to claim your ORCID, or authorize the Texas A&M Libraries to connect to your ORCID profile? Want help importing publications into your ORCID profile from Thomson ISI or Elsevier Scopus? Care to see examples of other researchers’ ORCID profiles and how they connect to manuscript submission systems? All of these topics and more will be covered during this informal learning session hosted by a faculty member from the University Libraries.

The first five graduate students to register and attend the program will receive a complimentary Aggie ORCID tee-shirt!

You need to login to submit a new registration request or to view/edit an existing request. Please login using the ‘Login’ button on top.
I was in attendance last night at the Graduate Student Council meeting. Thank you for your presentation in regards to ORCiD. I am hoping to attend one of your workshops to register for ORCiD. Please let me know when they workshops are scheduled.

Thank you, Doctoral Student, Ag Economics

We currently have 47 people registered for this Wednesday’s ORCiD workshop. Please let me know if there is anything else we can help you with in preparation for the workshop.

Graduate Assistant / Event Assistant
Office of Graduate and Professional Studies

By the way, I've been mentioning ORCiD in scientific-writing classes and workshops for a while. And a few months ago, as part of my work with the AuthorAID project, I featured ORCiD as a Resource of the Week (http://www.authoraid.info/en/news/details/35/).

Thanks and I really appreciate your hard work,

Doctoral Student, Construction Engineering

Professor, Integrative BioSciences
Thanks!

- Gail Clement
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