

# UNLOCKING THE POWER OF ORCID INTEGRATIONS

31 OCTOBER 2018

**ORCID**

Connecting Research  
and Researchers

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**ORCID.org**



**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.



**TOGETHER, WE CAN MAKE OUR VISION A REALITY!**

# WHAT IS ORCID?

- Open, not-for-profit organization
  - run by & for the research community
- Provider of unique researcher identifiers: ORCID iDs
  - reliably & clearly connect researchers with contributions & affiliations
- Integration point for ORCID iDs
  - +500 systems integrated: grant applications, manuscript submission, CRIS, repositories, & more!



# WHY ORCID?

- Solves the name ambiguity issue
- Connects researchers with their contributions & affiliations
- Provides open tools (API) to enable transparent & trustworthy connections between organizations & researchers
- Researcher control & consent

ORCID iD	First/given name	Last/family name	Other names
<a href="https://orcid.org/0000-0001-6256-5355">https://orcid.org/0000-0001-6256-5355</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0002-8488-678X">https://orcid.org/0000-0002-8488-678X</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0003-2313-3220">https://orcid.org/0000-0003-2313-3220</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0002-4470-4339">https://orcid.org/0000-0002-4470-4339</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0003-0212-283X">https://orcid.org/0000-0003-0212-283X</a>	VOLODYMYR	MELNYK	
<a href="https://orcid.org/0000-0003-2252-940X">https://orcid.org/0000-0003-2252-940X</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0002-7123-1418">https://orcid.org/0000-0002-7123-1418</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0003-4645-8239">https://orcid.org/0000-0003-4645-8239</a>	Volodymyr	Melnyk	
<a href="https://orcid.org/0000-0002-5972-9301">https://orcid.org/0000-0002-5972-9301</a>	Volodymyr	Melnyk	Володимир Мельник, Volodymyr Melnyk
<a href="https://orcid.org/0000-0003-4788-546X">https://orcid.org/0000-0003-4788-546X</a>	Volodymyr	Melnyk	



# ORCID BY THE NUMBERS

**932** members from 44 countries

**+500** member integrations

**+5 million** active researcher identifiers

**+2 million** records with connected information

**+60** publishers signed open letter

**+13 million** unique DOIs

## Consortia in

- Italy
- Denmark
- Germany
- Portugal
- Belgium
- Netherlands
- UK
- Finland
- Sweden
- Norway
- United States
- Canada
- Brazil
- South Africa
- Taiwan
- Australia
- New Zealand
- Israel



# THE ORCID API

ORCID offers several APIs that allow your systems to connect to the ORCID Registry to exchange data:

API	Features
<b>Public API</b> Freely available to anyone	<ul style="list-style-type: none"><li>• <b>Authenticate:</b> Get a user's authenticated ORCID iD</li><li>• <b>Read (Public):</b> Search/retrieve public data</li></ul>
<b>Member API</b> ORCID member organizations ( <i>Sandbox test environment freely available to anyone</i> )	<ul style="list-style-type: none"><li>• <b>Read (Limited):</b> Search/retrieve limited-access data</li><li>• <b>Add:</b> Post new items to a record</li><li>• <b>Update:</b> Edit or delete items you previously added</li></ul>
<b>Premium Member API</b> Premium ORCID member organizations	<ul style="list-style-type: none"><li>• <b>Webhooks:</b> Receive notifications of updates</li><li>• Customised <b>monthly reports</b> (including email stats)</li><li>• Access to monthly public data file</li></ul>



<https://members.orcid.org/api/orcid-api-comparison>

# RELIABLE CONNECTIONS

- Control how your organization name is expressed in systems your researchers use
- Include unique organization identifier
- CONNECT authoritative affiliation information to researcher records



# IMPROVE DATA QUALITY

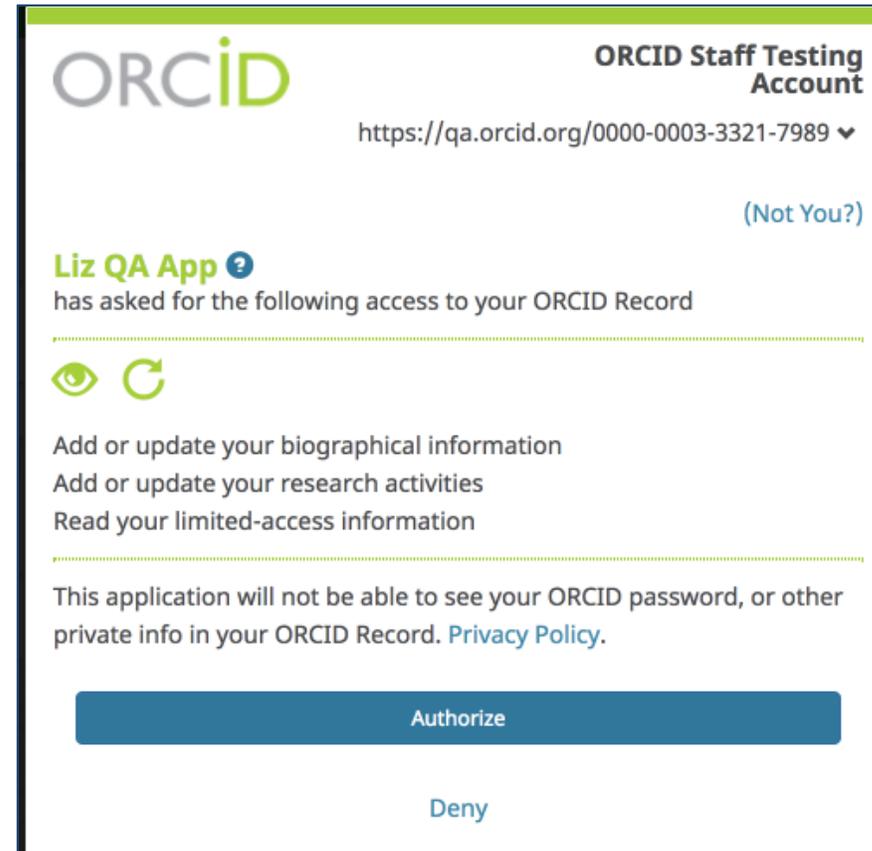


Use data from  
ORCID records to  
populate forms  
and automate  
reporting.

Improve data  
quality and reduce  
reporting burden

# RESPECT RESEARCHER CONSENT & PRIVACY

- AUTHENTICATION is quick, easy & accurate
- Request & obtain permission to read / write to the ORCID record (trusted parties)
- Sign in + Authorize > ORCID API pushes the iD to your system



# IMPLEMENT ORCID IN 4 STEPS:

## 1. PLAN

- Which system(s) would you like to connect to ORCID? Where does ORCID fit within your existing systems & workflows?
- Are you already using any of the [vendor systems that support ORCID?](#)
- What information do you want to obtain from/add to your researchers' records?
- What resources do you need? Who is the right people to involve?
- How to communicate your implementation?



# IMPLEMENT ORCID IN 4 STEPS:

## 2. BUILD

- Check our [technical documentation](#)
- Request [Sandbox](#) / [Production](#) credentials
- Decide how you will use the API and [permissions](#) needed
- [Test & demonstrate your implementation](#)



# IMPLEMENT ORCID IN 4 STEPS:

## 3. COMMUNICATE

- Outreach resources: [members.orcid.org/outreach-resources](https://members.orcid.org/outreach-resources)
- ORCID Help: [orcid.org/help](https://orcid.org/help)
- [Video tutorials](#)



Member  
Support Center

ORCID Main Site

Research Funders   Research Organizations   Publishers   Resources

ORCID-enabled systems ▾

Outreach resources ▾

Resources

## OUTREACH RESOURCES

### Contents

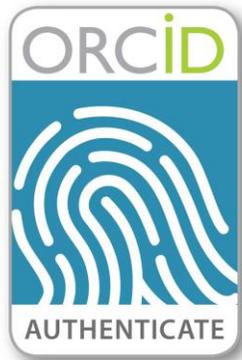
1. Three-phase ORCID communications toolkit
2. Phase 1: Building anticipation
3. Communications tools for phase 1 (anticipation)
4. Phase 2: Engagement with ORCID (action)
5. Communications tools for phase 2 (action)
6. Phase 3: Ongoing ORCID brand recognition, and reinforcing key messages (awareness)
7. Communications tools for phase 3 (awareness)
8. Resources toolkit
9. Other resources you may find useful



# IMPLEMENT ORCID IN 4 STEPS:

## 4. LAUNCH

- Let everybody know! (Newsletter, social media, etc.)
- Obtain your Collect & Connect badges!



# *Apollo, Cambridge's Institutional Repository – ORCID integration*

[10.17863/CAM.31774](https://doi.org/10.17863/CAM.31774)

Dr Agustina Martínez-García  
Repository Integrations Manager  
Office of Scholarly Communication  
[am857@cam.ac.uk](mailto:am857@cam.ac.uk)

'Unlocking the power of ORCID integrations',  
31<sup>st</sup> October 2018



# Outline

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- Overview of systems at Cambridge
- ORCID integration
- Benefits & Issues
- Next steps

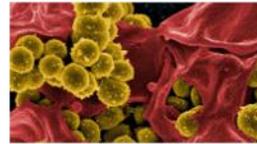
# Background: Apollo

## Apollo - University of Cambridge Repository

This repository holds the research output of members of the University of Cambridge. It is delivered and managed by the University Library's [Office of Scholarly Communication](#) team.



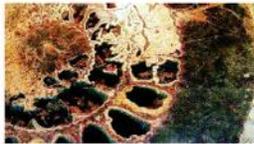
School of Arts and Humanities



School of Clinical Medicine



School of Technology



School of the Biological Sciences



School of the Humanities and Social Sciences



School of the Physical Sciences



Colleges



Other Communities

Share your  
research

- Apollo holds the University's research outputs
- Available since 2003
- Runs on the DSpace repository platform (open source)

<https://www.repository.cam.ac.uk>

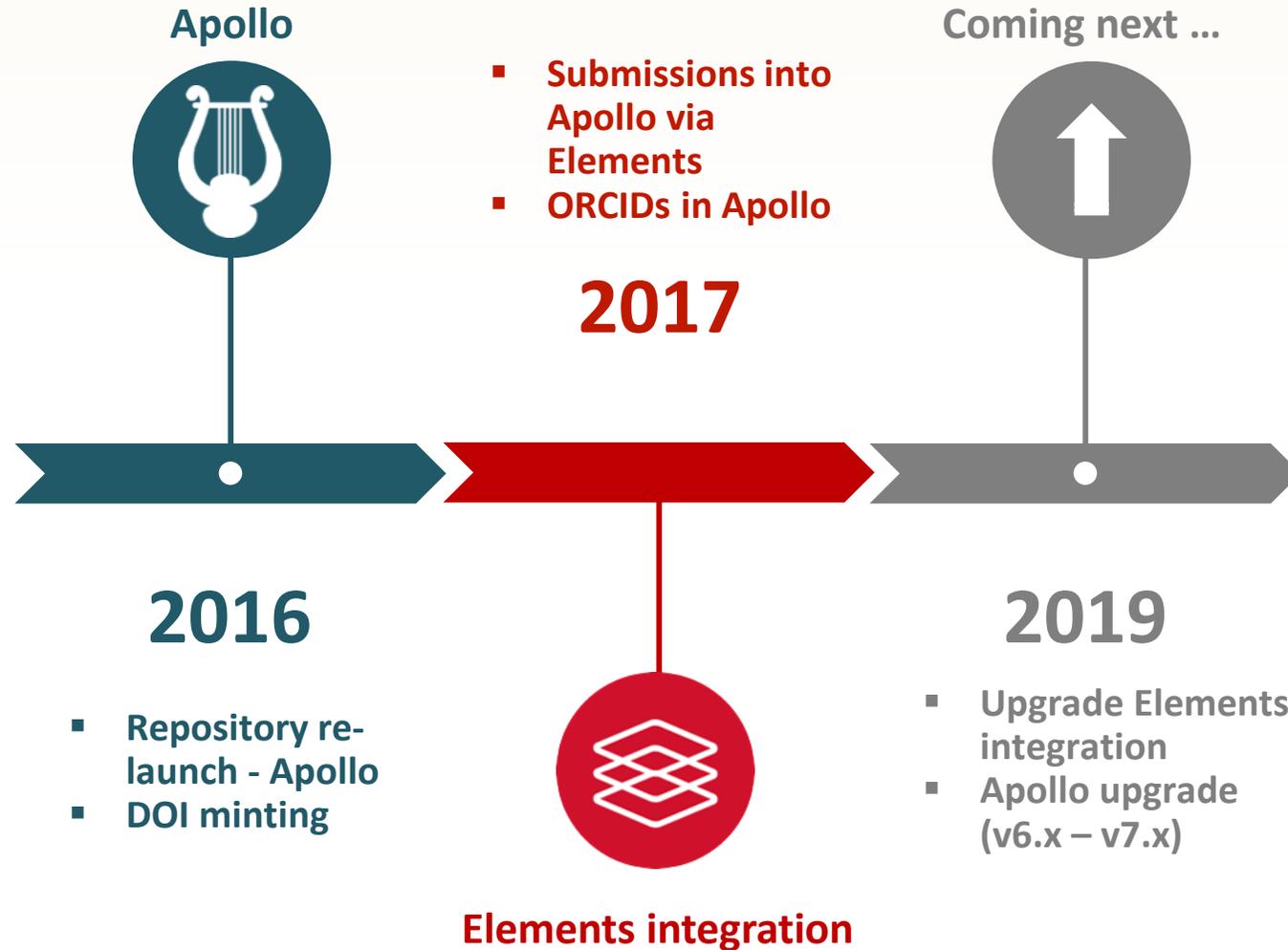
# Background: Symplectic Elements

The screenshot displays the Elements v5.10 interface for a journal article. The article title is "Circulating concentrations of vitamin D in relation to pancreatic cancer risk in European populations." The authors listed are van Duijnhoven FJB, Jenab M, Hveem K, Siersema PD, Fedirko V, Duell EJ, Kampman E, Halfweg A, van Kranen HJ, and van den Ouweland JMW. The article is from the International Journal of Cancer, volume 142(6), pages 1189-1201, published on 15 Mar 2018. The interface also shows citation metrics (Altmetrics: 2, RCR: 0, Dimensions: 0, EPMC: 0, Scopus: 0, WoS: 0), journal rankings (SNIP: 1.86, SJR: 2.85), and a history log with four entries related to the article's deposit and policy exceptions.

- Elements (v5.10)
- Internal system in use since 2010
- Linked data
  - ~ 6K active users
  - ~250K publications
  - ~14K grants
  - ~14K professional activities

<https://elements.admin.cam.ac.uk>

# Repository upgrade/integration projects



# Soft integration

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## Populating ORCID records with repository content via DataCite's 'auto-update' feature

- Why this approach?
  - ORCID repository module limitations
    - Using ORCID API v1
    - No write to / read from ORCID registry
    - Simply used to disambiguate author names using ORCID's public API

# Integration points

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**Elements**



**Apollo**



## **Elements → Repository**

- Read from ORCID via API v2
- Via Repository Tools 1 (RT1) connector
- Repository – CRIS metadata crosswalks

## **Repository → DataCite**

- DOI registration module
- Custom DataCite crosswalks
  - Submit nameIdentifiers

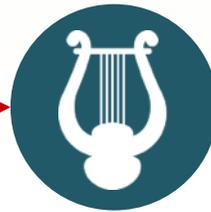
# Populating ORCID iDs via DataCite

## 1. Authors' ORCID iDs

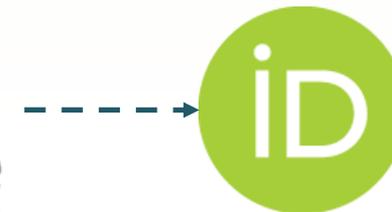
Via the repository feed



Elements



Apollo



## 3. ORCID iDs

Works pushed by DataCite

## 2. DOI registration

name identifiers sent to DataCite  
i.e. ORCID information



Symplectic Elements at University of Cambridge has asked for the following access to your ORCID Record

Read your ORCID record

Allow this permission until I revoke it.  
You may revoke permissions on your account settings page.  
Unchecking this box will grant permission this time only.

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

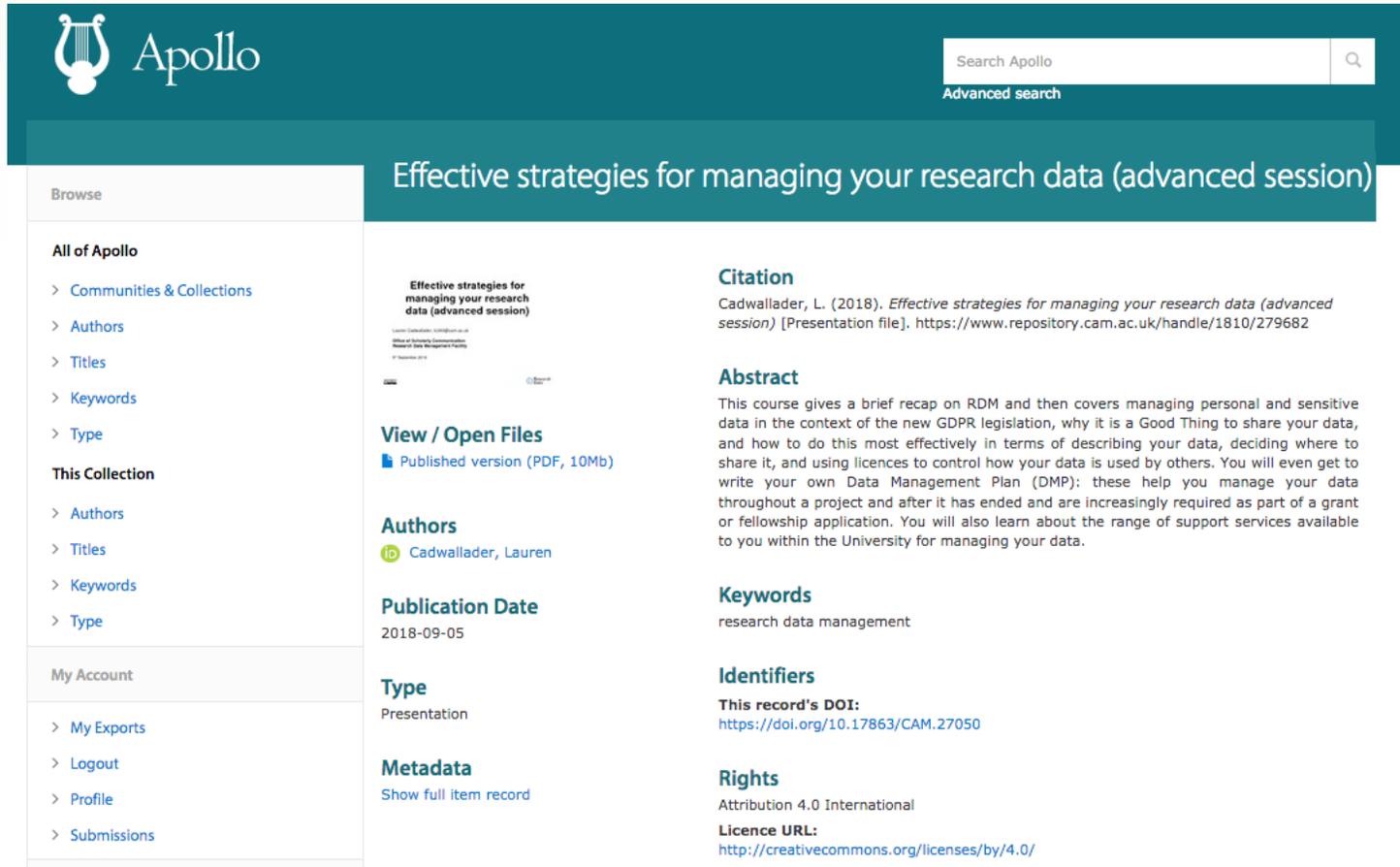


### Trusted organizations

You can allow permission for your ORCID Record to be updated by [Find out more](#)

Trusted organization	Approval date	Access type
DataCite <a href="https://www.datacite.org">https://www.datacite.org</a>	2017-04-12	Add works

# Some examples



The screenshot displays the Apollo repository interface. At the top left is the Apollo logo, and at the top right is a search bar with the text 'Search Apollo' and a magnifying glass icon. Below the search bar is a link for 'Advanced search'. The main content area is titled 'Effective strategies for managing your research data (advanced session)'. On the left side, there is a navigation menu with sections for 'Browse' and 'My Account'. The 'Browse' section includes 'All of Apollo' with sub-links for 'Communities & Collections', 'Authors', 'Titles', 'Keywords', and 'Type', and 'This Collection' with sub-links for 'Authors', 'Titles', 'Keywords', and 'Type'. The 'My Account' section includes 'My Exports', 'Logout', 'Profile', and 'Submissions'. The main content area is divided into several sections: 'View / Open Files' with a link to the 'Published version (PDF, 10Mb)', 'Authors' listing 'Cadwallader, Lauren', 'Publication Date' as '2018-09-05', 'Type' as 'Presentation', 'Metadata' with a link to 'Show full item record', 'Citation' providing the full citation and URL, 'Abstract' describing the course content, 'Keywords' as 'research data management', 'Identifiers' with the 'This record's DOI' and URL, and 'Rights' as 'Attribution 4.0 International' with the 'Licence URL'.

**Effective strategies for managing your research data (advanced session)**

**View / Open Files**  
Published version (PDF, 10Mb)

**Authors**  
Cadwallader, Lauren

**Publication Date**  
2018-09-05

**Type**  
Presentation

**Metadata**  
[Show full item record](#)

**Citation**  
Cadwallader, L. (2018). *Effective strategies for managing your research data (advanced session)* [Presentation file]. <https://www.repository.cam.ac.uk/handle/1810/279682>

**Abstract**  
This course gives a brief recap on RDM and then covers managing personal and sensitive data in the context of the new GDPR legislation, why it is a Good Thing to share your data, and how to do this most effectively in terms of describing your data, deciding where to share it, and using licences to control how your data is used by others. You will even get to write your own Data Management Plan (DMP): these help you manage your data throughout a project and after it has ended and are increasingly required as part of a grant or fellowship application. You will also learn about the range of support services available to you within the University for managing your data.

**Keywords**  
research data management

**Identifiers**  
**This record's DOI:**  
<https://doi.org/10.17863/CAM.27050>

**Rights**  
Attribution 4.0 International  
**Licence URL:**  
<http://creativecommons.org/licenses/by/4.0/>

# Some examples

5,494,159 ORCID IDs and counting. [See more...](#)

**Lauren Cadwallader**

**ORCID ID**  
<https://orcid.org/0000-0002-7571-3502>

[Print view](#)

> **Employment (2)**

> **Education and qualifications (1)**

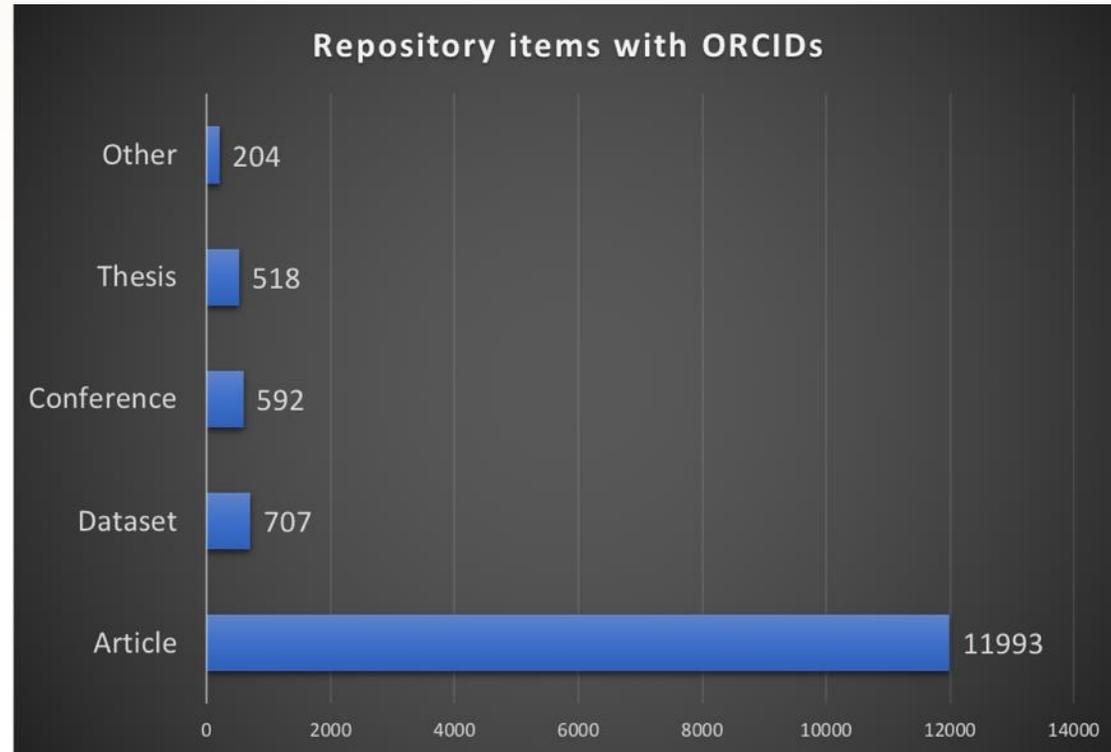
▼ **Works (16 of 16)** Sort

**Effective strategies for managing your research data (advanced session)** ▼  
Apollo - University of Cambridge Repository  
2018-09-06 | other  
DOI: [10.17863/CAM.27050](https://doi.org/10.17863/CAM.27050)  
Source: DataCite Preferred source

**Building a Research Data Management Training Community** ▼  
Apollo - University of Cambridge Repository  
2018-09-05 | other  
DOI: [10.17863/CAM.26517](https://doi.org/10.17863/CAM.26517)  
Source: DataCite Preferred source

**Research data supporting "Doubts about How the Middle Horizon Collapsed (ca. A.D. 1000) and Other Insights from the Looted Cemeteries of the Lower Ica Valley, South Coast of Peru"** ▼  
Apollo - University of Cambridge Repository  
2018-05-10 | data-set  
DOI: [10.17863/CAM.22272](https://doi.org/10.17863/CAM.22272)  
Source: DataCite Preferred source

# ORCID iDs in Apollo – some numbers



- Top 3 records

[10.17863/CAM.25228](https://doi.org/10.17863/CAM.25228) (444 ORCID*s*)

[10.17863/CAM.27831](https://doi.org/10.17863/CAM.27831) (377 ORCID*s*)

[10.17863/CAM.17973](https://doi.org/10.17863/CAM.17973) (110 ORCID*s*)

# Benefits after integration

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## **For researchers**

- 'One-stop shop' – interact with a single system
- 'Auto-claim' publications via ORCID

## **Technical resources**

- Soft integration
- Only custom metadata crosswalks required

## **Enhanced visibility of outputs in Apollo**

- Richer publications metadata
- Populated ORCID records

# Remaining challenges

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- Duplicated entries in ORCID records
  - Publisher DOI versus Repository DOI
  - Potential fix for this: upgrade repository's DataCite crosswalks to correctly use 'alternate identifiers'
- Non-intuitive, multi-step process for researchers
  - Authorise their ORCID in the CRIS system (pull records)
  - Authorise DataCite in ORCID iD (push records)

# What we would like to see next

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- Full integration in the CRIS system
  - Easier process for granting rights
  - Ability to assert researchers affiliation within the ORCID registry
  - Write to / read from the ORCID registry

*Thanks!*

# The ORCID integration at LMU Munich

*Unlocking the power of ORCID integrations*

Volker Schallehn  
University Library of LMU Munich

# LMU Munich



Martin Kraft [CC-BY-SA-3.0]

- Founded in 1472
- 18 Faculties
- > 50.000 Students
- 760 Professors
- 5.400 Academic staff members

# University Library of LMU Munich



- **4 Repositories (EPrints software)**

- **Open Access LMU (<https://epub.ub.uni-muenchen.de/>)**
- Dissertations (<https://edoc.ub.uni-muenchen.de/>)
- Open Data LMU (<https://data.ub.uni-muenchen.de/>)
- Munich Personal RePEc Archive (<https://mpra.ub.uni-muenchen.de/>)

# Open Access LMU

www.lmu.de | UB | Browse | Help | Advanced Search | Deutsch

Open Access LMU

On this server you'll find 54277 Publications of the LMU Munich. For further information about Open Access LMU please click here.

Digital Object Identifier on "Open Access LMU"

10.5282

All publication data for which a full text is stored on "Open Access LMU" will automatically receive a DOI with immediate effect - even retroactively - unless a DOI is already available that was previously assigned, for example, by a publisher. The rare books will only receive a DOI at a later date. The syntax of the DOIs on "Open Access LMU" is composed of 10.5282/ubm/epub.n. 'n' is the ID of the data set concerned.

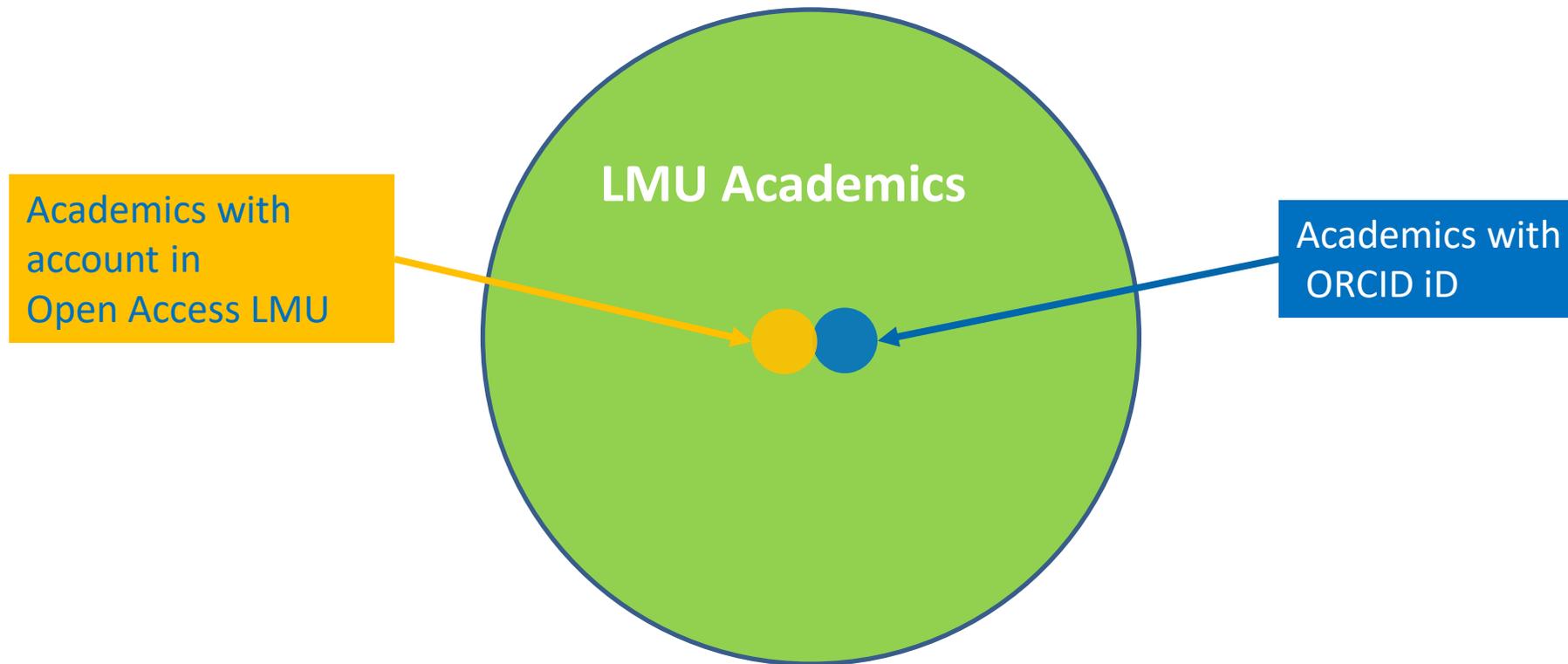
ORCID Member Organization

The latest 5 additions:

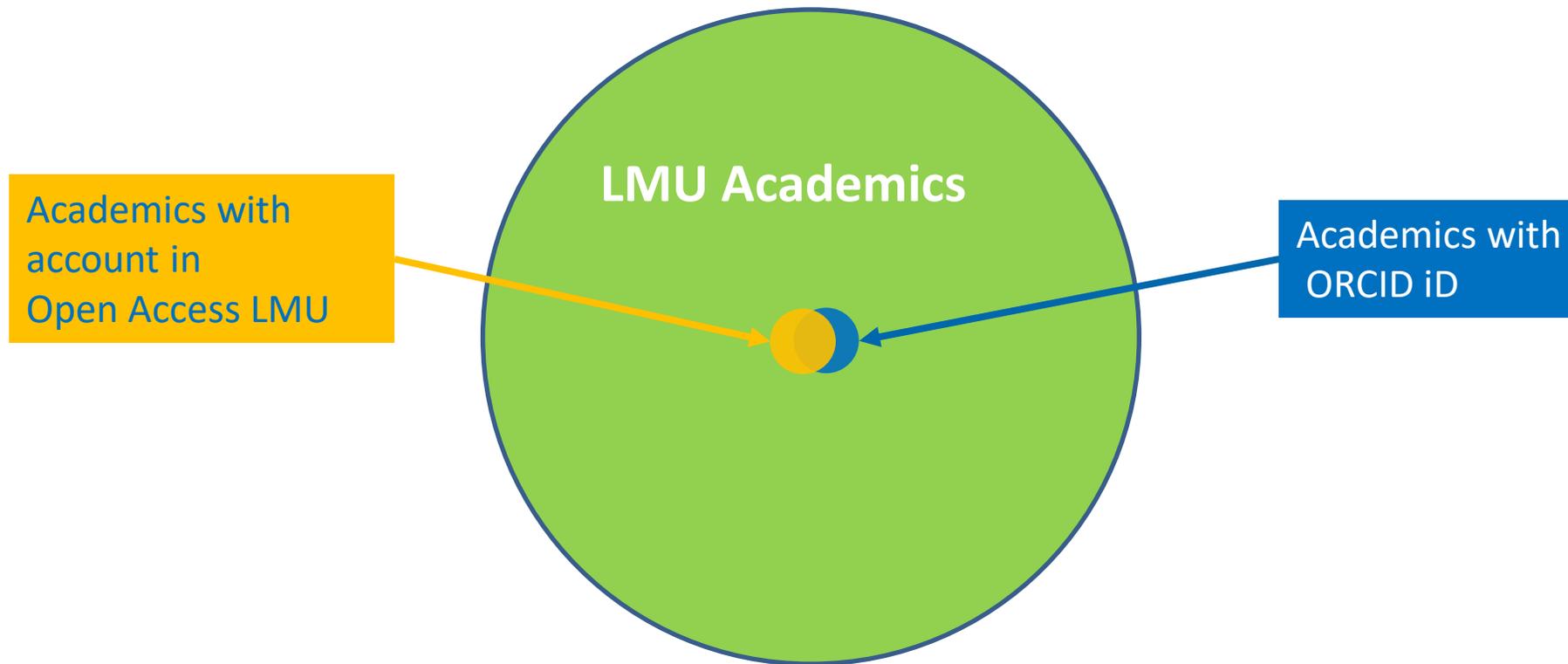
- Zorn, Magdalena (2018): Mein Kanon – dein Kanon: Der Kanon als Hypothese in einer pluralistischen Wissenskultur. In: Musik und Ästhetik, Vol. 22, No. 88; pp. 87-91
- Zorn, Magdalena (2017): [Rezension von] Martin Zingsheim: Karlheinz Stockhausens Intuitive Musik. Wien: Verlag Der Apfel 2015. In: Die Musikforschung, No. 4
- Zorn, Magdalena (2016): Wie hör' ich das "LICHT"? Stockhausen and Wagner in the "Echo Chamber" of Music. In: Grant, M. J.; Misch, Imke (eds.): The musical legacy of Karlheinz Stockhausen ; looking back and forward. Hofheim: Wolke, pp. 123-137

- ~ 25.000 publications with fulltext
- 665 registered users from LMU Munich
- 600 academics from LMU Munich with ORCID iD
- 15 academics with ORCID iD also have an account at Open Access LMU

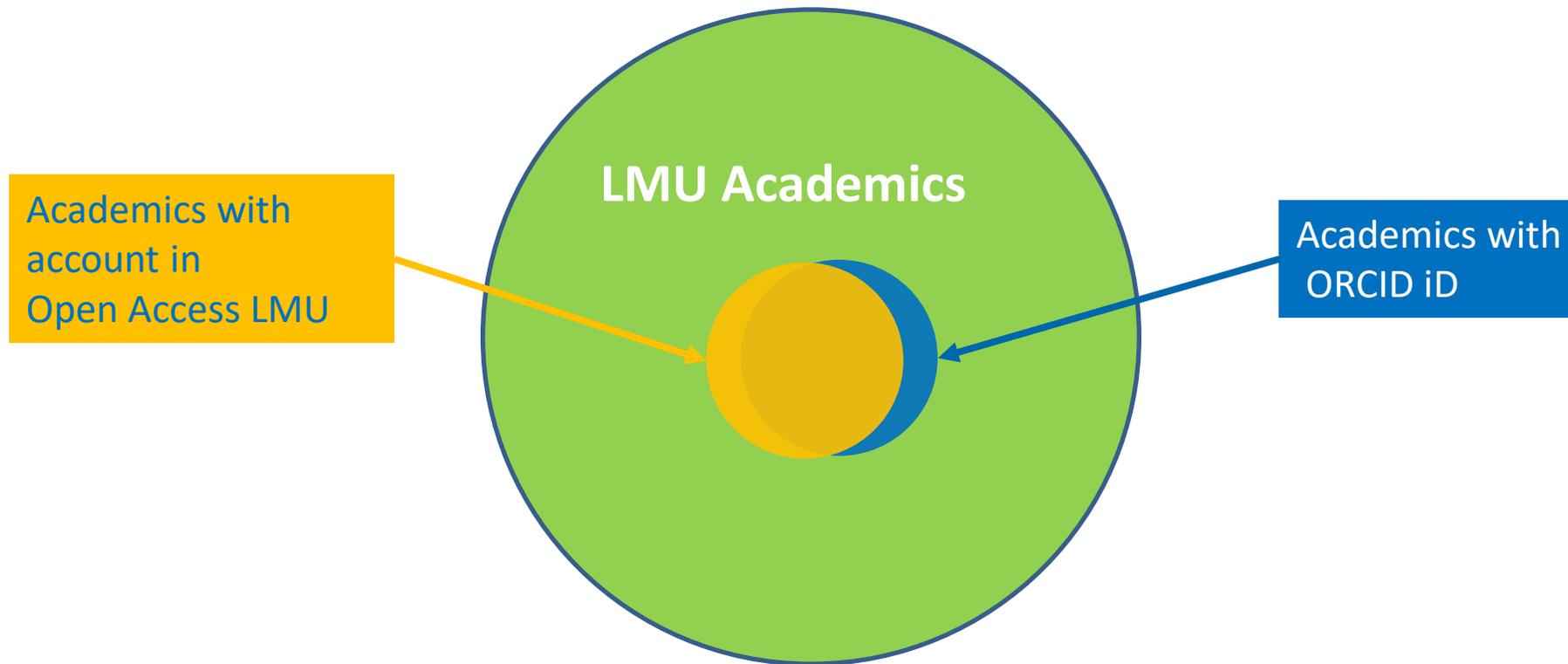
# Status quo at completion of implementation



## Next stage I



## Next stage II



# Communication for ORCID iD @ LMU

- Mailing to all academics with ORCID iD
  - Advantages of having the publication list at „Open Access LMU“
- Mailing to all academics with Open-Access-LMU-Account, but with no ORCID iD
  - Advantages of having an ORCID iD
- Mailing to all other academics at LMU Munich (faculty by faculty)



- EPrints: <http://www.eprints.org/>
- Two ORCID Pugins for EPrints software
  - 1) Designed by Peter West: <https://github.com/eprintsug/orcidt2>
  - 2) Designed by EPrints Services:
    - [https://github.com/eprints/orcid\\_support](https://github.com/eprints/orcid_support)
    - [https://github.com/eprints/orcid\\_support\\_advance](https://github.com/eprints/orcid_support_advance)
- Open Access LMU uses 2)

The screenshot shows the Open Access LMU website interface. At the top, there are logos for LMU (Ludwig-Maximilians-Universität München) and UB (University of Bamberg). The main navigation bar includes links for 'www.lmu.de', 'UB', 'Browse', and 'Help'. A search bar is present with the text 'Advanced Search' and a magnifying glass icon. On the right, there is a language selector set to 'Deutsch'. Below the navigation bar, a user is logged in as 'Volker Schallehn'. The main content area is titled 'ORCID details for Volker Schallehn'. It provides information on how to connect to ORCID, including a link to 'click here' for more information and an ORCID iD: 'orcid.org/0000-0001-6228-1344'. A list of permissions granted to Open Access LMU is shown, with three permissions selected: 'Connect to ORCID', 'Create and update activities on your ORCID record', and 'Retrieve restricted details from your ORCID profile'. A 'Please Note' section explains that permissions can be removed at any time. At the bottom, there are two buttons: 'Create or Connect your ORCID ID' and 'Disconnect from ORCID'.

www.lmu.de | UB | Browse | Help | Advanced Search | Deutsch

Manage deposits | Logged in as Volker Schallehn | ORCID Permissions | Manage records | Profile | Manage shelves | Saved searches | Review | Reports | Admin | Edit page phrases | Logout

FACULTIES

RESEARCH CENTERS

PERSONS

SUBJECTS

KEIMELION

LUDOVICO-MAXIMILIANEA

MALTE

### ORCID details for Volker Schallehn

For more information about connecting to ORCID, [click here](#).

[orcid.org/0000-0001-6228-1344](https://orcid.org/0000-0001-6228-1344)

The permissions to access your ORCID record that you have granted to Open Access LMU via the ORCID system are listed here:

- Retrieve your ORCID id only
- Create and update details of your research activities (publications, and education or employment) already added to your ORCID record by Open Access LMU
- Retrieve details from your ORCID profile restricted to trusted parties only

These permissions are due to expire on Sun Oct 17 09:43:21 2038 CEST.

**Please Note:** You can remove the granted permissions at any time from within your ORCID account or by changing the selected permissions below and re-connecting to ORCID.

We will only use these granted permissions as indicated below. To change how we use these conditions please contact [open-access@ub.uni-muenchen.de](mailto:open-access@ub.uni-muenchen.de)

Select the permissions you would like to grant to the repository below. Once selected, click the 'Create or Connect your ORCID id' button to update your permissions.

**Connect to ORCID**  
Allows Open Access LMU to link your ORCID id with your Open Access LMU record. This is the minimum permission required and is therefore uneditable

**Create and update activities on your ORCID record**  
Allows Open Access LMU to add details of your publications to your ORCID record and update the details of publications which have already been added to your ORCID record by Open Access LMU.

Upon allowing this permission, Open Access LMU will also attempt to update your employment or education activities. Please see [Updating Employment/Education Activities](#) for more information.

**Retrieve restricted details from your ORCID profile**  
Allows Open Access LMU to retrieve details from your ORCID profile that are restricted to your trusted parties only

Create or Connect your ORCID ID | Disconnect from ORCID

# eprints@ Open Access LMU

[www.eprints.org](http://www.eprints.org)

The screenshot shows the Open Access LMU website interface. At the top, there is a header with the LMU logo (LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN), the text "OPEN ACCESS LMU", and the UB logo (LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN). Below the header, there is a navigation bar with links for "www.lmu.de", "UB", "Browse", and "Help". A search bar labeled "Advanced Search" is present, along with a "Deutsch" language selector. The main content area shows a user logged in as "Volker Schallehn" with various management options like "Manage deposits", "ORCID Permissions", "Manage records", "Profile", "Manage shelves", "Saved searches", "Review", "Admin", "Reports", "Edit page phrases", and "Logout". A sidebar on the left lists "FACULTIES", "RESEARCH CENTERS", "PERSONS", "SUBJECTS", "KEIMELION", "LUDOVICO-MAXIMILIANEA", and "MALTE". The main content area displays an "ORCID Dashboard" with a list of items: "All users with and without ORCIDs", "orcid.org Name Mismatch", "Creators with ORCIDs", and "Users with ORCIDs".

www.lmu.de | UB | Browse | Help

Advanced Search

Deutsch

Logged in as Volker Schallehn | Manage deposits | ORCID Permissions | Manage records | Manage shelves | Profile | Saved searches | Review | Admin | Reports | Edit page phrases | Logout

FACULTIES

RESEARCH CENTERS

PERSONS

SUBJECTS

KEIMELION

LUDOVICO-MAXIMILIANEA

MALTE

### Export to orcid.org for Volker Schallehn

orcid.org/0000-0001-6228-1344

Select records to export to your orcid.org profile

**Export** **Select/Unselect all**

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# Ressources for ORCID @ LMU Munich

- Conceptual design and technical implementation (5% of 1 FTE)
- Ongoing Communication and individual support (5% of 2 FTE)
- 7 months from getting the credentials of the sandbox account until finishing the technical implementation

# Lessons learned

1. You can expect the implementation to take longer than planned
2. Besides the technical implementation, communication is the most important point
3. You must ensure that the required personnel resources are available

**Thank you very much for your attention!**

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