HUBZERO

PLATFORM FOR SCIENTIFIC COLLABORATION

• HUBzero, open source software: [http://hubzero.org](http://hubzero.org)
• Originally funded by NSF, maintained by HUBzero Foundation
• Built to facilitate virtual communities and online, scientific collaboration, research and learning
• Collaborate, develop, publish, archive, and interact with software tools, datasets, documents, multimedia, learning objects, etc.
• Social network functionality and collaboration features
• LAMP stack, Joomla framework, OpenVZ and Rappture, git, etc.
• EZID interface to mint DataCite DOIs
• Over 50 hubs online, supporting different virtual scientific communities, hundreds of thousands of users
SOME EXAMPLES OF HUBZERO

SUPPORTING DIFFERENT VIRTUAL COMMUNITIES OF RESEARCHERS

- nanoHUB, [https://nanohub.org](https://nanohub.org)
- Purdue University Research Repository, [https://purr.purdue.edu](https://purr.purdue.edu)
- Human-Animal Bond Research Institute, [http://www.habricentral.org](http://www.habricentral.org)
- Network for Earthquake Engineering Simulation (NEES), [http://nees.org](http://nees.org)
- Pharmaceutical product development and manufacturing, [http://pharmahub.org](http://pharmahub.org)
- Transforming STEM Education, [http://STEMedhub.org](http://STEMedhub.org)
- Instant access to high-throughput computing, [http://diagrid.org](http://diagrid.org)
- Drought Research Initiative Network, [http://drinet.hubzero.org](http://drinet.hubzero.org)
- Collaborative volcano research and risk mitigation, [http://vhub.org](http://vhub.org)
- Clinical and translational research in healthcare, [http://indianactsi.org](http://indianactsi.org)
- Cancer care engineering, [http://ccehub.org](http://ccehub.org)
- Global engineering education, [http://globalhub.org](http://globalhub.org)
- Energy from biomass, [http://c3bio.org](http://c3bio.org)
REPOSITORY WORKFLOWS

HUBZERO-ORCID INTEGRATION

Three simple use cases:

1. New user registration
   
   *User creates hub account & creates/associates ORCID identifier*

2. Edit and link user profile to ORCID
   
   *Link between hub user dashboard and ORCID*

3. User publishes a dataset
   
   *ORCID identifier is included in DOI metadata to DataCite*
Use case 1:

New user registration
Collaborate on Research

Any Purdue faculty member, graduate student, or staff can create a project in PURR, which provides a set of tools and data storage to support research and collaboration. Invite collaborators from other institutions to join your project.

Start Your Research Project

Create a Data Management Plan
Learn about the detailed requirements for your data management plan (DMP). Funding agency requirements are very specific and our DMP resources can help you to clear any confusion. Get Started.

Upload Research Data to Your Project
Create a project to upload and share your data with collaborators using our step-by-step form to guide you through the process. Invite collaborators from other institutions to join your project. Create a Project.

Publish your Dataset
Package, describe, and publish your dataset with a Dataset DOI. Publishing will ensure your dataset is citable, reusable, and archived for the long-term. See Published Datasets.

Featured Dataset

Title: mkalp Testing 2014-01-13 #3
By Mark Leighton Fisher
Synopsis: mkalp Testing 2014-01-13 #3

Do you have a question?

Chat with us
Send us your small question.
Enter your email address.
Your Question/Message
Send

Copyright © 2013 Purdue University. All Rights Reserved.
Powered by HUBzero®, a Purdue project
Create New Account

Login Information

User Login: required

johngim
User login name is available

Password:

Password:

STRONG

- Must contain at least 1 letter
- Must contain at least 1 number or punctuation mark
- Must be no longer than 16 characters

Confirm Password:

Contact Information

First Name: required

John

Middle Name:

Last Name: required

Smith

Valid E-Mail: REQUIRED

john.smith@mailinator.com

Confirm E-Mail: REQUIRED

john.smith@mailinator.com

⚠️ Important! You must confirm receipt of confirmation e-mail from webmaster@purdev.lib.purdue.edu in order to complete registration.

Human Check

Letters not clear?

Click to renew CAPTCHA.

Please enter the following characters you see into the textbox below.

mzg7q

Terms & Conditions

☑️ required Yes, I have read and agree to the Terms of Use.

Create Account
Associate your ORCID (Open Researcher and Contributor ID)

To include your ORCID in your profile:

- **Search for an existing ORCID**
  
  If you have created an ORCID in the past or your institution has generated one for you, all you have to do is fill in the fields below and search for your unique ID from the list.

- **Create a new ORCID**
  
  If you can’t find your ID or would like to create a new one, just click on the “Create new ORCID” button below to generate a new ORCID based on the info in your profile. You will then receive an email from ORCID to claim the generated ORCID.

**Search ORCID**
Please fill in any of the following fields:

- First name: **John**
- Last name: **Smith**

**Search ORCID**

John Smith

John Smith

John Smith

John Smith, Smith

**Create new ORCID**
Create New Account

✅ Your account has been created successfully.

A confirmation email has been sent to 'john.smith@mailinator.com'. You must click the link in that email to activate your account and resume using PURR-DEV.
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>John Smith</td>
</tr>
<tr>
<td>ORCID</td>
<td>0860-0002-8116-1839</td>
</tr>
<tr>
<td>Organization</td>
<td>Enter your Organization</td>
</tr>
<tr>
<td>Employment Status</td>
<td>Enter your Employment Status</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:john.smith@mailinator.com">john.smith@mailinator.com</a></td>
</tr>
<tr>
<td>Web Site</td>
<td>Enter your Website.</td>
</tr>
<tr>
<td>Telephone</td>
<td>Enter your Phone Number</td>
</tr>
<tr>
<td>Address(s)</td>
<td>Enter an Address</td>
</tr>
<tr>
<td>Biography</td>
<td>Enter your Biography.</td>
</tr>
</tbody>
</table>
Use case 2:

Link & edit ORCID from user dashboard
John Smith

- Name: John Smith
- ORCID: Enter your ORCID
- Organization: Enter your Organization
- Employment Status: Enter your Employment Status
- E-mail: john.smith@mailinator.com
- Web Site: Enter your Website
- Telephone: Enter your Phone Number
- Address(s): Enter an Address
- Biography: Enter your Biography
Associate your ORCID (Open Researcher and Contributor ID)

To include your ORCID in your profile:

- **Search for an existing ORCID**
  - If you have created an ORCID in the past or your institution has generated one for you, all you have to do is fill in the fields below and search for your unique ID from the list.

- **Create a new ORCID**
  - If you can't find your ID or would like to create a new one, just click on the "Create new ORCID" button below to generate a new ORCID based on the info in your profile. You will then receive an email from ORCID to claim the generated ORCID.

**Search ORCID**
Please fill in any of the following fields:

- **First name**: John
- **Last name**: Smith

[Search ORCID]

- **John Smith**
- **john smith**
- **John Smith**
- **John Smith**
- **John Smith, Smith**

[Associate this ORCID]

[Create new ORCID]
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
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</tr>
<tr>
<td>Organization</td>
<td>Enter your Organization</td>
</tr>
<tr>
<td>Employment Status</td>
<td>Enter your Employment Status</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:john.smith@mailinator.com">john.smith@mailinator.com</a></td>
</tr>
<tr>
<td>Website</td>
<td>Enter your Website.</td>
</tr>
<tr>
<td>Telephone</td>
<td>Enter your Phone Number</td>
</tr>
<tr>
<td>Address(s)</td>
<td>Enter an Address.</td>
</tr>
<tr>
<td>Biography</td>
<td>Enter your Biography.</td>
</tr>
</tbody>
</table>

Profile completeness: 33%
Michael Witt

Also known as:
Michael C. Witt

Keywords: Library Science, Data Curation, Digital Libraries, Institutional Repositories

Websites:
Michael Witt, Purdue University

Other IDs:
ResearcherID L-6590-2013
Scopus Author ID 15119883100

Personal Information

Biography
Michael Witt is the head of the Distributed Data Curation Center (D2C2) and an associate professor of library science at Purdue University.

Education

You haven’t added any education, add some now

Employment

Purdue University
Head of the Distributed Data Curation Center

Funding

Import Funding
Add Funding Manually
Use case 3:

Include ORCID in Digital Object Identifier (DOI) metadata
Arrival Performance Measures at a Diverging Diamond Interchange

By Alexander Hainen\(^1\), Jamie Mackey\(^2\), Mark Taylor\(^2\), Darcy Bullock\(^1\)

1. Purdue University 2. Utah Department of Transportation

This video shows several cycles of a diverging diamond interchange at SR-201 / Bangerter in Salt Lake City, Utah on December 18, 2013.

Listed in Datasets

Abstract

Diverging diamond interchanges (DDI) are a relatively recent adaptation of signalized interchanges. This video shows several cycles of a diverging diamond interchange at SR-201 / Bangerter in Salt Lake City, Utah on December 18, 2013. The video observes southbound traffic and how the vehicles arrive at the interchange.
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</resource>
### Description

**Citation**
Heiner, Alexander; Mackey, Jamie; Taylor, Mark; Bullock, Darcy. (2014). Arrival Performance Measures at a Diverging Diamond Interchange. Purdue University Research Repository.

**Abstract**
This video shows several cycles of a diverging diamond interchange at SR-201/Bangtail in Salt Lake City, Utah on December 18, 2013.

### Resource type
- **Dataset**

### Rights
- **CC0 1.0 Universal**

### Language
- **en**

### Dates
- **Valid**: 2014-03-10
- **Accepted**: 2014-03-10

### Version
- **1.0**

### Contributors
- **Project Leader**: Courtney E. Matthews

### Other formats
- [text/html](#)
- [application/x-datacite+xml](#)
- [application/vnd.datacite.datacite+xml](#)
- [application/x-datacite+text](#)
- [application/vnd.datacite.datacite+text](#)
- [application/rfc4114+xml](#)
PROGRESS
HUBZERO-ORCID INTEGRATION

• All three use cases implemented in prototype
• Pilot testing with three hubs:
  • nanoHUB, http://nanohub.org
  • PURR, http://purr.purdue.edu
  • HABRI Central, http://habri.org
• Demo in May at ORCID Outreach Meeting in Chicago last month
• Contribute source code to HUBzero, next version release in September 2014

Thanks to support from: