Library-Faculty Collaboration on Publishing Data Analysis

Dan Coughlin
Penn State, University Libraries
Head, Libraries Strategic Technologies
Penn State University

- Huck Institutes Website Goals
  - Promote faculty research
  - Assist Potential Graduate Students
Huck Institutes Data Needs

• What are the latest publications from our faculty?

• What graduate committees are our faculty participating on?
  • What research are those graduate students doing?
Huck Institutes Data Needs

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Huck Institutes Data Needs

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Open Access

Electronic Theses and Dissertations
The Graduate School
Huck Institutes Data Needs & Open Access

- What are the latest publications from our faculty?

Digital Measures

- What graduate committees are our faculty participating on?
  - What research are those graduate students doing?
Huck Institutes Data Needs

“Data is facts, and information contextualizes those facts”
-Jon Hill

Use Cases

- Provide up to date publication data
- Provide Electronic and Theses Dissertation committee information
- Assist with faculty compliance of Penn State’s Open Access Policy
3 Goals

1. Power Open Access workflow
2. Provide Access to Data via API
   - Faculty profiles
   - Institute and Department sites
3. Generate administrative reports
Data Flow Diagram

RMD receives:
- Education
- Employment
- Brief Bio
- Contact Info
- Publications
- Presentations
- Performances
- Research Interests
- Teaching Interests

Also called:
- Activity Insight
- AI
- Faculty Activity Insight
- Watermark
RMD receives:

- Publications

(Data Flow Diagram)
RMD receives:
- Faculty Committees
- Link to Student Theses
RMD receives:
- Links to stories on news.psu.edu featuring faculty
RMD receives:
- Publications
- Grant Numbers
RMD receives:

- Grant Number
- Abstract
Manage Profile Publications

<table>
<thead>
<tr>
<th>Publication</th>
<th>Visible in profile</th>
<th>Open Access Status</th>
<th>Authorship Confirmed</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balancing Community and Local Needs Releasing, Maintaining, and Rearchitecting the Institutional Repository, Information Technology &amp; Libraries, 2022</td>
<td>✔️</td>
<td>?</td>
<td>✔️</td>
<td>Add to my ORCID Record</td>
</tr>
<tr>
<td>A web analytics approach for appraising electronic resources in academic libraries, Journal of the American Society for Information Science and Technology, 2016</td>
<td>✔️</td>
<td>?</td>
<td>✔️</td>
<td>This information has been added to your ORCID record.</td>
</tr>
<tr>
<td>Modeling journal bibliometrics to predict downloads and inform purchase decisions at university research libraries, Journal of the American Society for Information Science and Technology, 2016</td>
<td>✔️</td>
<td>?</td>
<td>✔️</td>
<td>This information has been added to your ORCID record.</td>
</tr>
<tr>
<td>Building a Community of Curatorial Practice at Penn State: A Case Study, Journal of Digital Information, 2012</td>
<td>✔️</td>
<td>?</td>
<td>✔️</td>
<td>This information has been added to your ORCID record.</td>
</tr>
</tbody>
</table>

If you need to waive open access obligations for a publication that is not in the list below, then please fill out this waiver form.

Don't see one of your publications below? You can Search the database and claim publications that we haven't been able to link to your profile.
ScholarSphere returns:

• Open Access URL
RMD receives:

- Open Access URL for citations that have a DOI
Directory Profiles and Department Pages
# Directory Profiles and Department Pages

## Researcher Metadata Database API

An API that serves as the authority on faculty and research metadata at Penn State University in the swagger-2.0 specification.

### Publication

<table>
<thead>
<tr>
<th>Method</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/v1/publications/{id}/grants</td>
<td>Retrieve a publication's grants</td>
</tr>
<tr>
<td>GET</td>
<td>/v1/publications/{id}</td>
<td>Find Publication by ID</td>
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<tr>
<td>GET</td>
<td>/v1/publications</td>
<td>All Publications</td>
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<tr>
<td>PATCH</td>
<td>/v1/publications</td>
<td>Update publication's ScholarSphere Open Access Link</td>
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### User

<table>
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<tr>
<th>Method</th>
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<tbody>
<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/organization_memberships</td>
<td>Retrieve the user's organization memberships</td>
</tr>
<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/news_feed_items</td>
<td>Retrieve a user's news feed items</td>
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<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/presentations</td>
<td>Retrieve a user's presentations</td>
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<tr>
<td>GET</td>
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<td>Retrieve a user's grants</td>
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<td>GET</td>
<td>/v1/users/{webaccess_id}/performances</td>
<td>Retrieve a user's performances</td>
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<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/etds</td>
<td>Retrieve a user's student advising history</td>
</tr>
<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/publications</td>
<td>Retrieve a user's publications</td>
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<tr>
<td>GET</td>
<td>/v1/users/{webaccess_id}/profile</td>
<td>Retrieve a user's profile</td>
</tr>
<tr>
<td>POST</td>
<td>/v1/users/publications</td>
<td>Retrieve publications for a group of users</td>
</tr>
</tbody>
</table>
Directory Profiles and Department Pages

Reasons for developing our API

1. Prevent fracturing of used applications on campus
2. Mitigate issues around data quality
3. Centralize vendor updates
Directory Profiles and Department Pages

Tracy L Langkilde
Head of Department
Biology

Bio  Publications  Grants  Presentations  Graduate Advising  News  Ot

Publications

Context-dependent effects of glucocorticoids on the lizard gut microbiome, *Molecular Ecology*, 2022


A chromosome-level genome assembly for the eastern fence lizard (Sceloporus undulatus), a reptile model for physiological and evolutionary ecology, *GigaScience*, 2021

Elevated glucocorticoids during gestation suggest sex-specific effects on offspring telomere lengths in a wild lizard, *Comparative biochemistry and physiology. Part A, Molecular & integrative physiology*, 2021


Size-assortative mating in explosive breeders, *Behaviour*, 2021

Christopher A Kiver  
School of Music

0233 Music Building 1  
(814) 863-4400  
cak27@psu.edu

Research Interests  
Music advocacy; repertoire selection; rehearsal methodology

Directory Profiles and Department Pages

Bio  
Publications  
Presentations  
Performances  
Graduate Advising

Performances

The World I Want to See, University Park, PA, USA, 7/1/2019

Iolanthe - Gilbert and Sullivan, State Theater, State College, PA, USA, 3/16/2018

University of Northern Arizona Jazz/Madrigal Festival, University of Northern Arizona, Flagstaff, AZ, USA, 2/12/2015

Penn State Honors Music Institute, Esber Recital Hall, University Park, PA, USA, 7/1/2013

Mass - Leonard Bernstein, Eisenhower Auditorium, University Park, PA, USA, 4/5/2013

Mass - Leonard Bernstein, University Park, PA, USA, 4/5/2013

MSVMA State Choral Festival, Mount Pleasant, MI, USA, 5/8/2012

MSVMA State High School Choral Festival, Central Michigan University, Mount Pleasant, MI, USA, 5/8/2012

Amahl and the Night Visitors - Carlo Menotti, State Theater, State College, PA, USA, 3/18/2011

MSVMA State Junior High/Middle School Choral Festival, Central Michigan University, Mount Pleasant, MI, USA, 5/14/2009

MSVMA State High School Choral Festival, Ann Arbor, MI, USA, 5/12/2009

Pure Profile
Andrew Read

Director, Huck Institutes of the Life Sciences; Evan Pugh Professor of Biology and Entomology; Eberly Professor of Biotechnology

Publication Tags


Most Recent Papers

The economics of managing evolution

A listing of publications as a result of faculty research in the Department of Food Science at Penn State.


**Genomic analysis of Salmonella Typhimurium from humans and food sources accurately predicts phenotypic multi-drug resistance**

*Food Microbiology*, Yin, Xin, Fu, Yezhi, Tate, Heather, Pinto, Casey, Dudley, Edward G., Mikanatha, Nkuchia M., 2022

**Characterization of high pressure jet-induced fat-protein complexation**
### Admin Reports

#### Publications

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<tr>
<th>Id</th>
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<th>Secondary title</th>
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<td>450855</td>
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<td>450854</td>
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<td>Pedal Musculovenous Pump Activation ...</td>
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<td>450840</td>
<td>Impact of Bone Graft on Fusion ...</td>
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<td>Department of Orthopaedics and Surgery</td>
<td>The Journal of foot and ankle surgery</td>
<td>60</td>
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Open Access Workflow

(RMD)
Open Access Workflow

Step 1:
• Receive Publication Information from Digital Measures
• Receive Publication Information from Pure
Open Access Workflow

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• Receive Publication Information from Digital Measures
• Receive Publication Information from Pure

Step 2:
• Manual de-duplicate publications

(RMD)
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Step 3:
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Open Access Workflow

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Step 4:
• Email researchers asking for publications that don’t have an Open Access URL, but should have Open Access copy per Penn State policy.
Open Access Workflow

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Step 2:
• Manual de-duplicate publications

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Step 4:
• Email researchers asking for publications that don’t have an Open Access URL, but should have Open Access copy per Penn State policy.

Step 5:
• Researcher logs into RMD to provide
  • Open Access URL
  • Open Access copy (deposited to ScholarSphere)
  • Submit a waiver from the policy for article
Thanks!

- Contributors
  - Ana Enriquez, Seth Erickson, Briana Ezray, Nicole Gampe, Brandy Karl, Alex Kiessling, Justin Patterson, Adam Wead, Cynthia Hudson-Vitale, Eric Durante, Natalie Simonson, Chet Swalina, Binky Lush, Dann Bohn