

# Libraries and the Importance of Infrastructure

- Moderator: Sandra Hirsh
- Speakers:
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  - Christopher Spalding
  - Michelle Urberg

## Please Take This Poll: **[PollEv.com/michelleurbe240](https://poll-ev.com/michelleurbe240)**

### **What is the biggest challenge in the open research lifecycle?**

- Engaging researchers
- Scaling workflows related to submission, editing, typesetting, and metadata creation associated with outputs
- Managing long-term solutions for retaining open research outputs (publications, data sets, and other research materials)
- Onboarding necessary new technology related to supporting open research
- Financial sustainability



# Research begins and ends with the library:

## Emerging options for open journal publishing

February 25, 2021  
NISO Plus

**Jody Bailey**

*Head of Scholarly Communications Office, Emory University Libraries  
President of the Board of Directors of the Library Publishing Coalition*





Libraries directly  
support each stage  
of the information  
lifecycle

# What is library publishing?

- “...set of activities led by college and university libraries to support the creation, dissemination, and curation of scholarly, creative, and/or educational works.” (<https://librarypublishing.org/>)
- Strives for openness, inclusivity, and sustainability
- Key characteristics (Schlosser, 2018):
  - Responsiveness
  - Core Services
  - Partnerships
  - Openness
  - Experimentation
  - Pedagogy



# Unique characteristics of journal publishing in libraries

- Platinum open access
- Disciplinary focus: mostly humanities & social sciences
- Strongly connected to educational mission of institution.
  - Journal production usually involves or is led by students.

# What services do library publishers provide?

- Obtaining digital identifiers (e.g., DOIs, ISBNs)
- Assisting with all aspects of technical setup and production
- Providing a publishing platform
- Hosting open-access digital content
- Consulting on copyright
- Maximizing discoverability of products
- Preserving and archiving content in perpetuity
- Assisting with print-on-demand services

Note: Not all academic libraries have staff with expertise to provide all of these services; most offer a selection of the above.





# Library Administrative Units Involved in Publishing

- Digital Scholarship Centers: [Emory Center for Digital Scholarship](#), [IUPUI Center for Digital Scholarship](#)
- University Presses + Libraries: [Michigan Publishing](#), [UNT Libraries Scholarly Publishing Services](#)
- Scholarly communications units/offices: [University of Kansas Office of Scholarly Communication and Copyright](#)
- Various technical services units: [University of Texas at Arlington Libraries OA Publishing Services](#)



# What do libraries publish in institutional repositories?

Materials	Platforms/tools
<ul style="list-style-type: none"><li>• Theses and dissertations</li><li>• Journal articles published elsewhere</li><li>• Conference papers/presentations</li><li>• Technical reports</li><li>• White papers</li><li>• Other gray literature</li></ul>	<ul style="list-style-type: none"><li>• <a href="#">CONTENTdm</a> (OCLC)</li><li>• <a href="#">Digital Commons</a> (bepress/Elsevier)</li><li>• <a href="#">DSpace</a>*</li><li>• <a href="#">Fedora/Samvera</a>*</li><li>• <a href="#">Islandora</a>*</li></ul> <p>*Indicates open source</p>

# What else do libraries publish?

Type of material	Platforms/tools
Journals	<a href="#">Open Journal Systems</a> *, <a href="#">Scholastica</a> , <a href="#">Digital Commons</a> , <a href="#">Manifold</a> *, <a href="#">PubPub</a> *
Books	<a href="#">Open Monograph Press</a> *, <a href="#">Fulcrum</a> *, <a href="#">Editoria</a> *
Expansive digital projects	<a href="#">Fulcrum</a> *, <a href="#">Manifold</a> *, <a href="#">Pressbooks</a>
Textbooks and other open educational resources (OER)	<a href="#">Pressbooks</a>
Datasets	<a href="#">Dataverse</a>

\*Note: These are open-source, nonproprietary projects developed by the community.



# Examples: Journals

Title	Publication type	Library Publisher	Platform/tool
<a href="#"><i>Journal of French and Francophone Philosophy</i></a>	Journal	University of Pittsburgh	OJS
<a href="#"><i>Health Behavior Research</i></a>	Journal	Kansas State University	Digital Commons
<a href="#"><i>Indiana University South Bend Undergraduate Research Journal</i></a>	Journal	Indiana University	OJS
<a href="#"><i>Innovations in Pharmacy</i></a>	Journal	University of Minnesota	OJS
<a href="#"><i>Southern Spaces</i></a>	Journal	Emory University	Wordpress
<a href="#"><i>Journal of Evolution and Health</i></a>	Journal	University of California	eScholarship Publishing

# Examples: other materials

Title	Publication type	Library Publisher	Platform/tool
<a href="#"><i>Teaching Religion in a Changing Public University</i></a>	Monograph	Atla Open Press	OMP
<a href="#"><i>Chinese Deathscape</i></a>	Expansive digital project	Stanford UP	Fulcrum
<a href="#"><i>Slave Voyages</i></a>	Expansive digital project	Emory University	Various
<a href="#"><i>Introduction to Electricity, Magnetism, and Circuits</i></a>	Textbook (OER)	University of Saskatchewan	Pressbooks
<a href="#"><i>Campaign Contributions in Prosecutorial Elections, 2014-2017</i></a>	Dataset	UNC	Dataverse

# References and further reading

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# Questions?

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# LIBRARY PUBLISHING WORKFLOWS

EDUCOPIA  
INSTITUTE  
*Community Cultivators*

Library  
Publishing  
Coalition

INSTITUTE of  
Museum and Library  
SERVICES

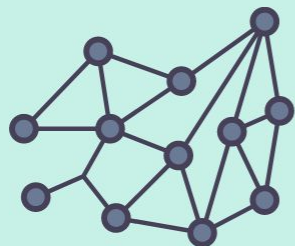
**Brandon Locke**

*Project Manager, Library Publishing Workflows*



# Library Publishing Workflows

- Collaboration between Educopia Institute, Library Publishing Coalition, 12 North American libraries
  - Atlanta University Center, California Digital Library, Claremont Colleges, Columbia University, Illinois Wesleyan University, Pacific University, University of Alberta, University of Michigan, University of Pittsburgh, University of Redlands, Virginia Tech, Wayne State University
- Create documentation and visualizations for journal publishing workflows
- Document and discuss pain points, gaps, challenges for specific types of journals and platforms
- Share template and guidance for libraries to create their own
- More info: [educopia.org/library-publishing-workflows](https://educopia.org/library-publishing-workflows)



# NEXT GENERATION LIBRARY PUBLISHING

**Improving publishing  
pathways and  
services for authors,  
editors, and readers**

**Learn more:**  
<http://bit.ly/nglp-home>



**ARCADIA**  
A CHARITABLE FUND OF  
LIBRARY TRAVING & PETER BALEWIS



**CDL**  
University of California  
California Digital Library



**EDUCOPIA**  
INSTITUTE  
Community Cultivators

**LONGLEAF SERVICES**

**LYRASIS**



# Next Gen Library Publishing (NGLP) Components

- Toolsets, pathways, and documentation, uniting common open source tools [more news forthcoming]
- SComCat - knowledge base of scholcomm open technologies [scomcat.net/](https://scomcat.net/)
- Values & Principles Assessment
  - [Skinner & Wipperman \(2020\) - Encouraging Adherence to Values and Principles in Scholarly Publishing - educopia.org/principles\\_values\\_wp/](https://educopia.org/principles_values_wp/)
  - [Skinner & Lippincott \(2020\) - Values and Principles Framework and Assessment Checklist](#)
- More info: [bit.ly/nglp-home](https://bit.ly/nglp-home)



# Library Publishing Infrastructure

- Library Staff
  - The most essential piece of infrastructure!
- Platforms and Software
  - Word, InDesign, homemade XSLT scripts, DSpace, DigitalCommons, Open Journal Systems, spreadsheets, project management software, FTP servers, title management systems, metadata management systems, email, homegrown JMS and web delivery platforms, Jekyll, etc
- Vendors & Service Providers
  - JMS hosts, IR hosts, external copywriters, typesetters and XML creators, printers and commercial sales, indexers, CrossRef, Preservation services, article submission platforms

# Library Publishing Infrastructure Challenges

## Library Staff

- Generally understaffed
  - Difficult to handle time-consuming manual work like copyediting, typesetting, metadata correction
  - Difficult to scale up the number of journals published
  - Inability to provide customized services to different journals
  - Difficult balancing publishing with other job requirements
  - Difficulty replacing people who leave/retire
- Don't have much control over workflow
  - Changes to software/workflow require mediation with editors
  - Work comes irregularly, sometimes in large quantities

# Library Publishing Infrastructure Challenges

## Diversity, Equity, Inclusion

- Distinct lack of diversity in North American publishing/scholcomm
  - Barrier to equity, values of open scholcomm
  - NA & European policies can lead to even greater global inequities worldwide
  - Coalition for Diversity & Inclusion in Scholarly Communications [c4disc.org/](https://c4disc.org/)
  - We Here [wehere.space/](https://wehere.space/)

# Library Publishing Infrastructure Challenges

## Interfaces/Transfers Between Technology

- Lots of separate pieces means lots of down/uploading, plugins, APIs, localized scripts to transform/reformat
- Each has a possibility of failure and requires staff time

# Partners with Shared Values

## Partners/Service Providers with Shared Values

- Have seen values-driven infrastructure and service providers (not-for-profit & for-profit alike) purchased by larger organizations whose values are at odds with academia
- Values from [Skinner & Lippincott's "Values & Principles Framework and Assessment Checklist"](#):
  - DEI, Transparency, Openness & Interoperability, Access to Knowledge, Representative Governance, Financial & Organizational Stability



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Library Publishing Workflows: [educopia.org/library-publishing-workflows](https://educopia.org/library-publishing-workflows)

Next Generation Library Publishing: [bit.ly/nglp-home](https://bit.ly/nglp-home)

# From Creation to Consumable Knowledge: Supporting Research Workflows in an Open Infrastructure

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Christopher Spalding  
VP, PM Research Workflow Solutions  
EBSCO Information Services

**EBSCO**

# Research activities



# Works: beyond books and journals



Collections typically include books and journals



Underpinning the journals and the articles are the outputs of research – including code, data and methods

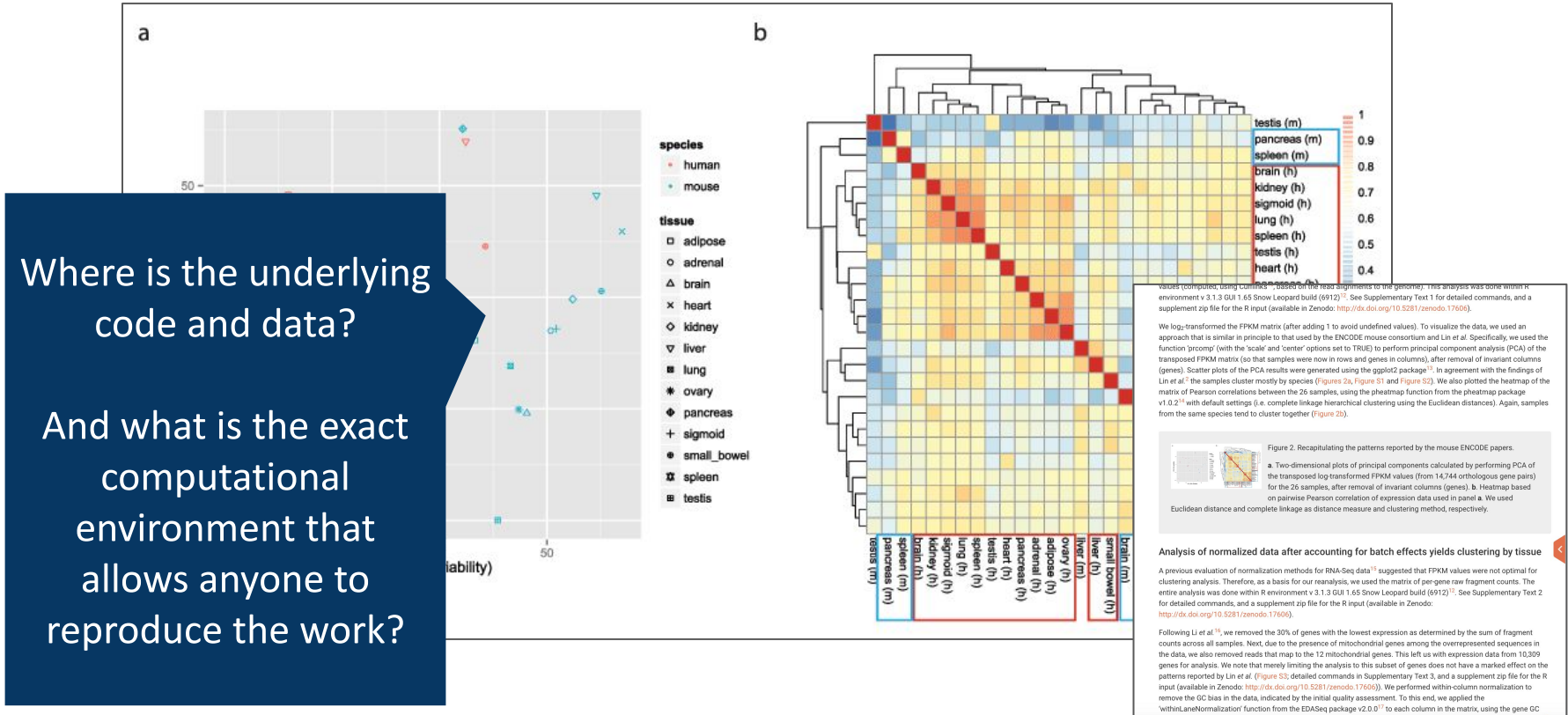


These outputs are often produced within the institution itself



These outputs are ‘first class’ citizens within collections – used in teaching, learning and research

Figure 2. Recapitulating the patterns reported by the mouse ENCODE papers.



# Challenges with research output – code, data, methods

1

Collection  
management

Manage, preserve,  
discover research output

2

Classroom  
support

Support researchers and  
faculty in the classroom

3

Researcher  
work

Support researchers in their  
work; greater efficiency, more  
collaboration, easier publishing

# Addressing the challenges



Researcher /  
faculty /  
student

*Integrations*



*Enrichment and  
disambiguation*



Identifiers  
-DOI  
-NUTS  
-ROR  
-ORCID  
-...



Scholarly graphs,  
discipline  
repositories, ...

# Research output:

The library at the heart of research creation, collection and discovery



## Researchers

Work more efficiently, find, re-use and reproduce research, collaborate, adhere to data retention policies and publish

## Institution

Support researchers, collect and disseminate research, support open science goals and mandates



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# Have you participated in the poll?

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# Where do we go from here?

- 1) People and technology need to work to the advantage of each other
- 2) Platforms need to be locally-based, but globally-minded
- 3) Values-driven policies and procedures, including DEI, need to be baked into infrastructure

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Thank you for attending the session on  
“Libraries and the Importance of  
Infrastructure”!