

# Evolving Library Discovery:

10 directions

Lorcan Dempsey

University of Barcelona,  
Seminari de l'Aula Jordi Rubió i  
Balaguer  
28 Feb 2023

# The future of library discovery?



what is the future of library discovery



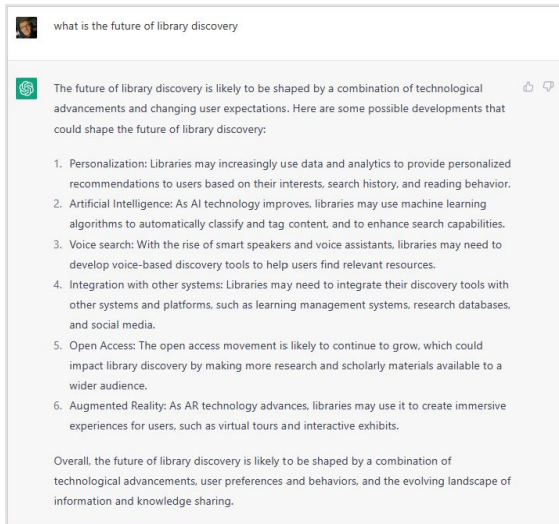
The future of library discovery is likely to be shaped by a combination of technological advancements and changing user expectations. Here are some possible developments that could shape the future of library discovery:



1. Personalization: Libraries may increasingly use data and analytics to provide personalized recommendations to users based on their interests, search history, and reading behavior.
2. Artificial Intelligence: As AI technology improves, libraries may use machine learning algorithms to automatically classify and tag content, and to enhance search capabilities.
3. Voice search: With the rise of smart speakers and voice assistants, libraries may need to develop voice-based discovery tools to help users find relevant resources.
4. Integration with other systems: Libraries may need to integrate their discovery tools with other systems and platforms, such as learning management systems, research databases, and social media.
5. Open Access: The open access movement is likely to continue to grow, which could impact library discovery by making more research and scholarly materials available to a wider audience.
6. Augmented Reality: As AR technology advances, libraries may use it to create immersive experiences for users, such as virtual tours and interactive exhibits.

Overall, the future of library discovery is likely to be shaped by a combination of technological advancements, user preferences and behaviors, and the evolving landscape of information and knowledge sharing.

# The future of library discovery?



## Scope & purpose

General technologies will be incorporated by vendors, projects, ..

Less interesting than structural questions about scope/purpose

So, integration and OA most interesting?

AI?



## Lorcan Dempsey

Hi ... I am a librarian, writer, and adviser. I enjoy working with groups of libraries to develop shared services, products and directions. I help guide national and international cooperative and R&D programs. I have been very lucky to work for library, educational, and non-profit organizations in Ireland, the UK, the EU and the US.

Explore my reflections about the evolution of libraries in their social and cultural contexts here.

Please [get in touch](#) if we can work together. And sign up to follow along!

Your email address



← SIGN UP NOW

### 0 FEATURED POSTS

META



#### Reflecting life and career: Advice to an LIS graduate student

What do I value about libraries? asked a student. What is essential for a library student to know? Here are several ways in which life experiences have influenced my views.

FEB 25, 2022 / 15 MIN READ

RESEARCH / LEARNING



#### Workflow is the new content 1: looking at research support and engagement

The phrase 'workflow is the new content' captures an important insight. In the digital environment we often create, use and share content through workflow applications.

FEB 21, 2022 / 10 MIN READ

COLLECTIONS



#### Collection directions accelerated? Pandemic effects

Over the past few years I have been talking about three systemic ways in which collections, broadly understood, are evolving in a network environment. They are: the collective collection, the facilitated collection, and the inside-out collection.

MAY 19, 2020 / 11 MIN READ

COLLABORATION



#### The powers of library consortia 1: how consortia scale capacity, learning, innovation and influence

Libraries and related organizations group together in a variety of ways to get their work done. They consort where there are scale advantages: to lobby, for example, to negotiate and license, to reduce costs, or to build shared infrastructure.

FEB 28, 2018 / 10 MIN READ

### Libraries

Dublin City Council



### University of Bath

A leading UK university with an international reputation for teaching and research excellence

University of Bath University of Bath



### Jisc

We're a membership organisation, providing digital solutions for UK education and research

Jisc



### OCLC: Worldwide, member-driven library cooperative

OCLC, a global library cooperative, supports thousands of libraries in making information more accessible and mo...

OCLC

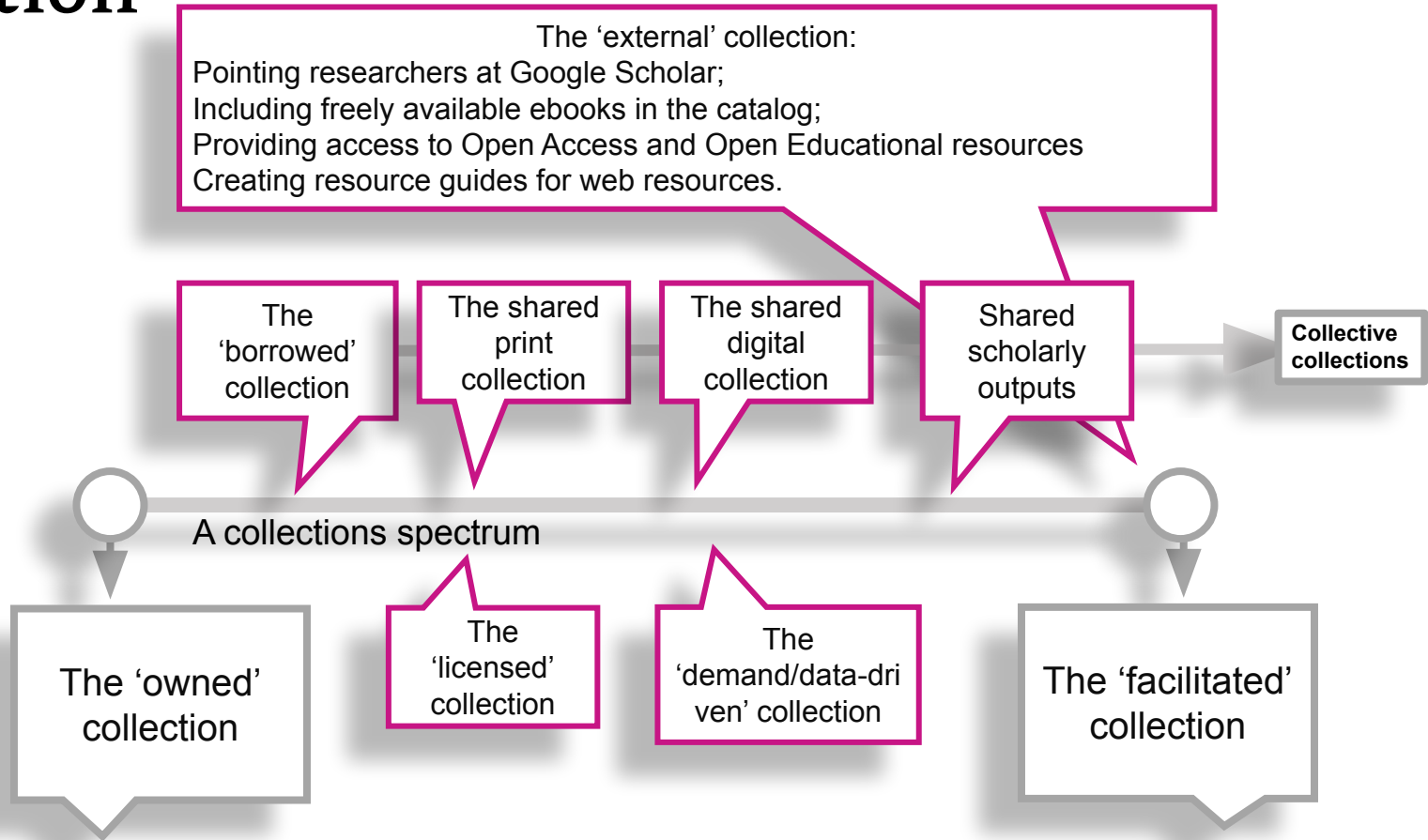


**#1 Preamble: collection direction**

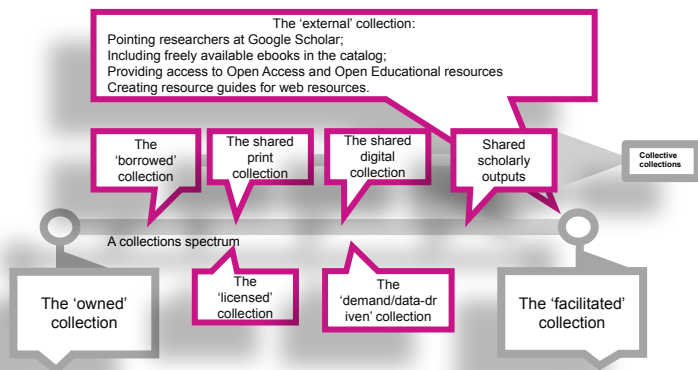
**#2 Preamble: the discovery gap**

**#3 10 Directions**

# The facilitated collection



# A demand-side view: the facilitated collection

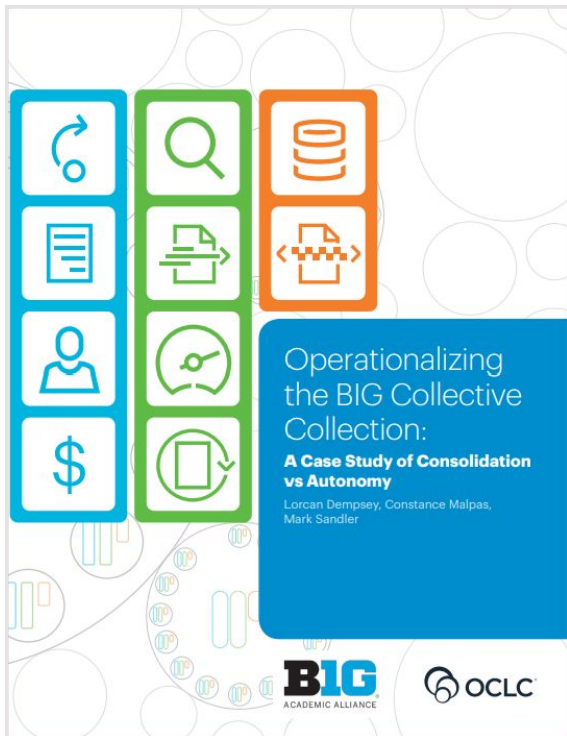


## Closing the gap?

Network logic:  
a coordinated mix of  
local, collaborative and  
network resources are  
assembled around user  
needs.

Move online  
accelerates need to  
provide targeted,  
relevant resources.

# A shared view: collective collections



# swisscovery

The national platform that brings together scientific information from around [490 libraries in Switzerland](#).

Sign in to profit from our services such as:

- Use e-media licensed by your library and access free titles
- Request books from libraries
- Manage your account, your loans and your requests

## What you can find

The diagram illustrates the scope of swisscovery plus. It features a large teal circle labeled 'swisscovery plus' at the top, with the text 'Libraries of swisscovery + SLSP Courier partners' below it. Inside this circle is a smaller teal circle labeled 'swisscovery' with 'Libraries of swisscovery' below it. Within the 'swisscovery' circle is a smaller teal circle labeled 'My library'. Inside 'My library' are several overlapping circles representing different resource types: 'E-Resources' (containing 'Consortium resources' and 'Full-text articles and more (CDF)'), 'Digital objects', 'Physical resources', and 'Institutional repositories'. To the right of the 'My library' circle is a purple rectangle labeled 'L' with the text 'Courier services and interlibrary loan'.

swisscovery plus

Libraries of swisscovery + SLSP Courier partners

swisscovery

Libraries of swisscovery

My library

E-Resources

Consortium resources

Digital objects

Full-text articles and more (CDF)

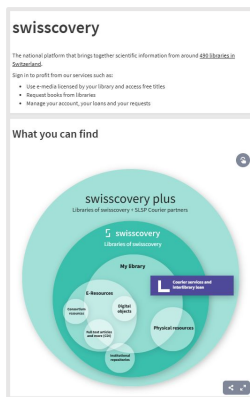
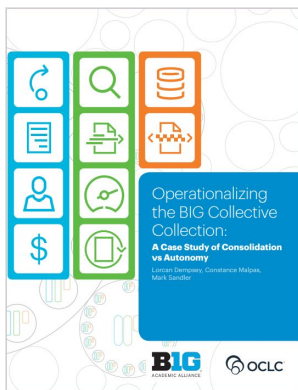
Physical resources

Institutional repositories

L Courier services and interlibrary loan



# A shared view: collective collections



## Collective

Licensing (OA)

Shared view of print  
collections

Purposeful  
management of  
collective print  
collection

Exploring shared  
access paths – CDL,  
...

# Inside-out vs outside-in

## Outside-in

Acquire 'published' materials from outside

Bring them in to the institution for use

Provide discovery layer over acquired resources

'Print logic'

## Inside-out

Materials generated internally

Share them with others and internally

Need to be discoverable on web as well as internally

'Network logic'

Home > Services > Administrative and Business > Library Systems

## DIGITAL COMMONS

DigitalCommons@Bryant University houses diverse materials produced by Bryant University students, faculty, and staff. The purpose of this institutional repository is to collect, organize, preserve, promote, and disseminate research products and the legacy of Bryant University culture for the rest of the world to use without barriers to access.

### Available To

Anyone

Home > BLR

Journal Home  
Aims & Scope  
Staff  
Submission Guidelines

Most Popular Papers

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#### SPECIAL ISSUES:

Select a volume:

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#### SEARCH

Enter search terms:

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## Bryant Literary Review

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The Bryant Literary Review is an international journal of poetry, fiction, and creative nonfiction housed in the English and Cultural Studies Department at Bryant University in Smithfield, RI. Since our first issue in 2000, we have published original and thought-provoking creative work from a wide array of established authors and emerging voices. We see our purpose to be the cultivation of an active and growing connection between the Bryant University campus community and the larger literary culture.



Current Volume: Volume 23 (2022)

[EDITORS](#)

Create, manage and  
make discoverable  
evidence, community, memory..

# Collection directions

#1 Facilitated

#2 Collective

#3 Inside out

**#1** Preamble: collection direction

**#2** Preamble: the discovery (mind) gap

**#3** 10 Directions

# 3 levels of discovery

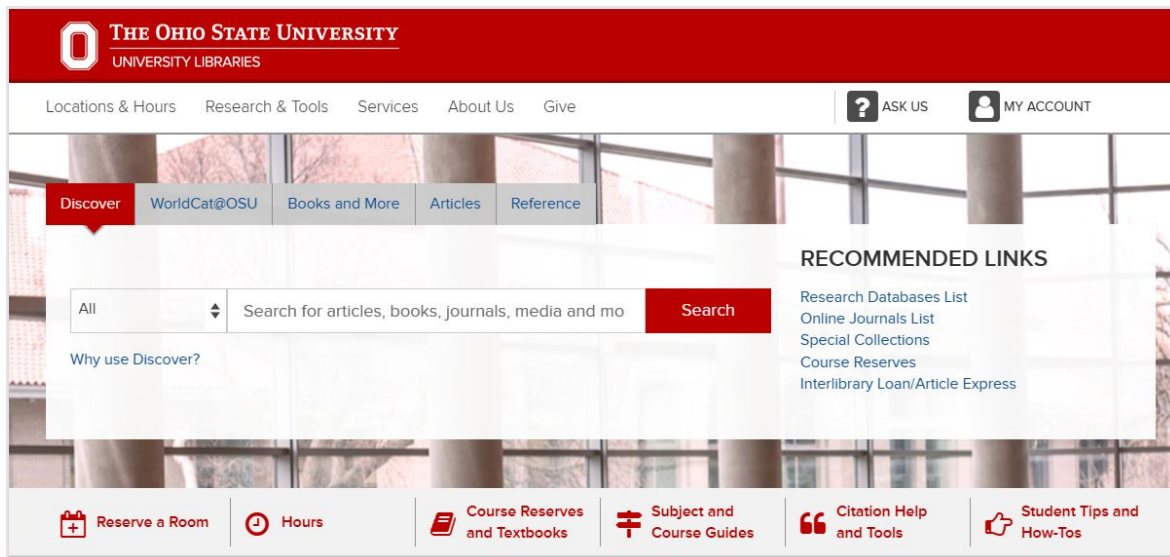
## 1. Library discovery

The acquired collection

Mostly outside in

Discovery layer over acquired collection

Text retrieval,  
etc



# 3 levels of discovery

## 1. (Trad) Library discovery

The acquired  
collection

Mostly outside in

Discovery layer over  
acquired collection

## 2. Extended Library discovery

Extend to deal with  
developing  
requirements  
(facilitated,  
collective, inside out)

Fragmented,  
pre-strategic,  
emergent

## 3. Discovery

The open web.

Google  
Wikipedia  
AI

Etc.

# The discovery gap

1. (Trad)  
Library  
discovery



2. Extended  
Library  
discovery



3. Discovery

Has most of discovery  
**mindshare**

**Commodity**

But 'discovery happens  
**elsewhere**'

Resource guides

Loading into discovery  
layer

Sharing metadata with  
other services

Underdeveloped  
systems and support

Convenience trumps  
most everything else ..

Google Scholar, etc



# The discovery (mind) gap

Discovery defaults  
to library  
discovery?

Library Discovery defaults  
to acquired collection (+)?

But user interested in  
broader discovery?

Library thinking dominated  
by the narrower discovery layer view?

Many other library activities support discovery –  
Do they have strategic focus and definition?

- #1 Preamble: the discovery dichotomy
- #2 Preamble 2: collection direction
- #3 10 Directions (gaps that deserve  
attention)

- #1 From discovery to **guided discovery**: fit for purpose **learning** support
- #2 From discovery to **guided discovery**: an interpretive layer for **digital** materials
- #3 Discovering the **facilitated** collection
- #4 Full library discovery: a **holistic** library experience
- #5 The inside out library: making institutional materials **discoverable**
- #6 **Programmatic** discovery: reading (and **chatting**) at library scale
- #7 **Entifying** discovery: Readers, writers and entities
- #8 D2D2D: discovery to delivery to **decision** making
- #9 **Pluralizing** description and discovery

**#1 From discovery to **guided discovery**: fit for purpose **learning** support**

**#2 From discovery to guided discovery: an interpretive layer for digital materials**

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Library Library services

# Course reserves

The course reserves service allows instructors to set aside (or “reserve”) course materials for the short-term use of their students.

CURRENT STUDENTS FACULTY AND STAFF ALUMNI GIVING

FR



WARWICK

University of Warwick LibGuides Home

ALL GUIDES BY GROUP BY SUBJECT BY TYPE BY OWNER

Search: Enter Search Words Search

Showing 39 Guides

Guide Name	Created	Count
'Student as Researcher'	07 Feb 15, 2023	14
Applied Linguistics	07 Sep 23, 2022	35
Centre for Interdisciplinary Methodologies	07 Sep 22, 2022	36
Chemistry	07 Sep 22, 2022	88
Chinese Studies	07 Feb 15, 2023	75
Classics and Ancient History	07 Nov 7, 2022	69
Computer Science	07 Sep 22, 2022	54
Counselling	07 Dec 1, 2022	39
Creative Writing	07 Feb 22, 2023	42

A-Z Database List

Full list of Databases the library subscribes to, including trial access.

Go to A-Z List

Your Friendly Librarians

Sarah Akhtaruzzaman	Karen Jackson
Kat Halliday	Chris Vernon

ual:

Decolonising reading lists

## Guided discovery

Learners looking for resources adapted to class and assignment.

I need resources with illustrations?

What are the core resources here?

I need ten interesting resources in different media.

### Gap:

Students not well served by library discovery.

**Curated** discovery – contextualises resources with learning goals/courses.

Can see '**AI chat**' as more important.



if you can only read one article about library discovery what should it be



If you can only read one article about library discovery, "Library discovery: From Ponds to Streams" by Lorcan Dempsey and Constance Malpas in Information Standards Quarterly (2016) is an excellent choice.



This article provides a comprehensive overview of the evolution of library discovery systems, from early library catalogs to the current generation of web-scale discovery systems. It discusses the challenges and opportunities presented by these systems, and provides insights into the user experience and user behavior in this area. It also explores emerging trends in library discovery, such as the move towards linked data and the integration of discovery with other library services.

Overall, this article provides a broad and informative perspective on library discovery, making it a valuable read for anyone interested in this topic.



can i have a reference for this



Sure, here is the full reference for the article:



Dempsey, L. & Malpas, C. (2016). Library discovery: From Ponds to Streams. Information Standards Quarterly, 28(2/3), 27-34.

You can access the article online through the NISO (National Information Standards Organization) website or through academic databases such as JSTOR, EBSCO, or ProQuest.



could i have three authoritative resources for library discovery in the last 5 years



Certainly, here are three authoritative resources for library discovery in the last 5 years:



1. "Designing for Discovery: Improving User Experience in Library Search Tools" by Margaret Heller and Bonnie Tijerina in The Code4Lib Journal (2017) - This article provides an overview of the user-centered design principles that can be used to improve library discovery interfaces, and includes case studies of successful redesigns.
2. "Library Discovery Services: A Review of Key Issues and Future Directions" by Marshall Breeding in Information Standards Quarterly (2018) - This article discusses the current state of library discovery services, including trends such as the adoption of linked data and artificial intelligence, and explores potential future developments in this area.
3. "Beyond the Search Box: Designing for Discovery in Academic Libraries" by Amy Deschenes and Jody Condit Fagan in Journal of Web Librarianship (2019) - This article discusses the importance of designing discovery interfaces that support the entire research process, from initial exploration to final citation, and provides examples of libraries that have successfully implemented this approach.

These resources provide recent and authoritative insights into library discovery, including user-centered design principles, emerging trends, and best practices for designing effective discovery interfaces. They are written by experts in the field and can help inform library discovery strategy and practice in today's changing information landscape.

A phantom article:  
it doesn't exist (but see article by Ken Varnum)

That "authoritative" word!

#1 From discovery to guided discovery: fit for purpose learning support

#2 From discovery to **guided discovery**: an interpretive layer for **unique materials**

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[Bill Blackbeard, the Collector](#)[Color and Comics](#)[Printing the Comics](#)[Early 20th Century Newspapers](#)[Collection at Billy Ireland](#)

## Why do color and comics matter?

Had the comics only survived on microfilm, much of their appeal and impact would be lost.

William Randolph Hearst's color Sunday section debuted on October 18, 1896. He promised its glorious color would "make the rainbow look like a lead-pipe". From it sprang a transformation in popular culture – the comics were a revolution in American art, and newspapers in cities across the country began publishing their own Sunday comic sections, employing teams of cartoonists – some who would rise to national fame through the syndication of their comics.

More than one hundred years ago, the



### Special Collections & College Archives

[Alumni History](#) (11)

[American History](#) (30)

[College History](#) (29)

[Digital Repository](#) (36)

[Exhibit](#) (24)

[NELA History](#) (17)

[Research Project](#) (16)

[reset](#)

### Online Exhibits, Research Projects

The following sites are research projects, resources at the special collections department, or students in class or independent study.

#### Featured



**History of Equity and Diversity at Occidental (2014)**

CTSJ 320 students launch research into the history of equity and diversity between 1938-2014 to gather and analyze documents.



**Oxy United for Black Liberation**

Student activism leading up to and during the occupation of the AGC administration in the fall of 2015.



**Oxy in the Neighborhood**

This exhibit covers 1910 to 1923 when the surroundings were changing in the transition between semi-rural to suburb of Los Angeles.



**A Klan at the College?**

A class project investigates Oxy student organization Ku Klux Klan.

# Curation & guided discovery

Find and develop  
pathways and  
connections.

Unique materials with  
special stories, meanings

Contextualised\*  
Narrative building\*  
Story telling\*  
Sensemaking

#1 From discovery to guided discovery: fit for purpose learning support

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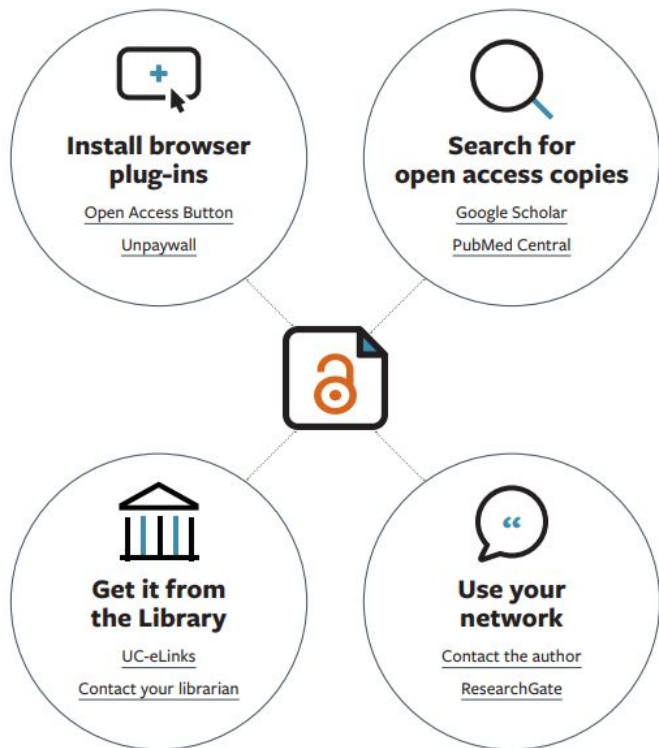
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# ALTERNATIVE ACCESS TO ELSEVIER ARTICLES



Note: The UC Libraries do not endorse using Sci-Hub for article access.

## Susan Bulkeley Butler Women's Archives

[Home](#) [Archival Collections](#) [Rare Books](#) [Oral Histories](#) [Materials at Other Repositories](#) [Teaching & Research](#) [About](#)



Significant Purdue and Hoosier Women's Papers | Other Women's Collections

The screenshot shows the homepage of the Business Research Center website. The header includes the University of Texas Libraries logo and navigation links. The main content area features a search bar, a list of resources, and a section for Business Research Guides. A sidebar on the right introduces the Business Librarian, Loretta Wallace, MLIS.

**University of Texas Libraries | LBGuides | Business Research Center | Home**

### Business Research Center

Search this Guide

Home

- Business Databases A - Z List
- Business eBooks
- Business News
  - Research Business Trends
- Business Plan - Resources
- Career Research Tools
- Case Studies
- Course & Topic Guides
- Data for Business Research
- GIS & Geospatial Data Services
- LinkedIn Learning at UT
- McCombs Faculty Resources
- McCombs MBA Resources
- McCombs PhD Resources
- Wharton Research Data Services
- Who Can Access WRDS?

### Business Research Guides

Company Research Link	Country Research Link
<ul style="list-style-type: none"><li>Company Profiles</li><li>Competitors</li><li>Financial Analyst Reports</li><li>SEC Filings</li><li>SWOT Analyses</li></ul>	<ul style="list-style-type: none"><li>Country Commercial Guides</li><li>Global Economic Data</li><li>International Business Directories</li><li>PESTLE Reports</li><li>Political Risk</li></ul>

Industry Research Link	Market Research Link
<ul style="list-style-type: none"><li>Five Forces Analysis</li><li>Industry Classification</li><li>Industry Reports</li><li>Supplier Resources</li><li>Trade Information</li></ul>	<ul style="list-style-type: none"><li>Advertising Trends &amp; Spend</li><li>Consumer Behavior</li><li>Geographic Consumer Data</li><li>Market Research Reports</li><li>Market Sizing</li></ul>

**Business Librarian**

Loretta Wallace, MLIS  
she/her

**Email Me**

Schedule An Online Consultation

All consultations will be conducted online using Zoom.

Please send all questions about class assignments, database resources or research projects via email.

[l.wallace@austin.utexas.edu](mailto:l.wallace@austin.utexas.edu)

Subjects:  
Accounting, Business, Business,

# Facilitated collection

Libguides, libguides,  
libguides ... one  
reason for popularity  
of libguides

Don't have good tools  
for adding open  
metadata,  
collections, resources

## Gap:

How to effectively make  
curation/discipline/resource  
expertise visible and usable.

- #1 From discovery to guided discovery: fit for purpose learning support
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Keyword ▾

a history of catalan language



Advanced

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Catalog

Articles

Databases

Online Journals

Guides and More

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## Catalog

42,624 Results

The Rise of Catalan Independence :  
Spain's Territorial Crisis / Andrew  
Dowling.



Book

[Dowling, Andrew. author.](#)

The Making of Catalan Linguistic  
Identity in Medieval and Early Modern  
Times / by Vicente Lledó-Guillem.



Book

[Lledó-Guillem, Vicente. author.](#)

Historical dictionary of the Catalans /  
Helena Buffery, Elisenda Marcer.



Book

Biography  
Dictionaries

[Buffery, Helena.](#)[View all Catalog results](#)

## Articles

2,759 Results



Not seeing the results you  
expected?  
[Try an exact phrase Articles search.](#)

The Making of Catalan Linguistic  
Identity in Medieval and Early Modern  
Times



Book

[Lledó-Guillem, Vicente](#)

2018

[Go to item](#)

Manual of Catalan Linguistics



Book

[Argenter, Joan A.; Lledó-Guillem, Vicente](#)

2020

[Go to item](#)

Bible Translation by  
Christians in Medieval  
Speaking Territories

## Talk to a Library Specialist

[Barbara Alvarez](#)

Head, International Studies;  
Librarian for Romance  
Languages & Literatures,  
Iberian Studies and  
Comparative Literature

734-936-2361

[barbalva@umich.edu](mailto:barbalva@umich.edu)[Fe Susan T Go](#)

East Asia,  
and and

## Databases

0 Results

No results match your search.

Try our [Browse Databases](#) page to view  
all titles alphabetically or by academic  
discipline.

## Online Journals

170 Results

1611 revista de historia de la traducción  
= a journal of translation history =  
revista d'història de la traducció.



Serial



Journal

[Go to online journal](#)[Hispanic research journal.](#)

Serial

[Go to online journal](#)[Historia social y de la educación.](#)

Serial

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## Guides and More

6 Results

[Journals on Lusophone Africa](#)

Research Guides

Suggested resources on Portuguese-  
speaking African countries: Angola, Cabo  
Verde, Guiné-Bissau, Mozambique, and  
São Tomé e Príncipe.

[May 2021 - New Books on Online  
Recreational Reading](#)

Research Guides

Suggestions for popular fiction, non-  
fiction, and/or graphic novels to read.

[June 2022 - New Books on Online  
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Suggestions for popular fiction, non-  
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Catalog 42,424 Results

The Rise of Catalan Independence : Spain's Territorial Crisis / Andrew Dowling.  
Book  
Dowling, Andrew, author.  
The Making of Catalan Linguistic Identity in Medieval and Early Modern Times / by Vicente Lledó-Guillén.  
Book  
Lledó-Guillén, Vicente, author.  
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Book  
Lledó-Guillén, Vicente  
Go to item

Manual of Catalan Linguistics  
Book  
Argenter, Joan A. Lledó-Guillén, Joan  
2020  
Go to item

Bible Translation by Jews and Christians in Medieval Catalan-Speaking Territories

Talk to a Library Specialist

Permafröst  
a result  
Online, Noncirculable  
114 results

## Guides and More

6 Results

### Journals on Lusophone Africa

#### Research Guides

Suggested resources on Portuguese-speaking African countries: Angola, Cabo Verde, Guiné-Bissau, Mozambique, and São Tomé e Príncipe.

### May 2021 - New Books on Online Recreational Reading

#### Research Guides

Suggestions for popular fiction, non-fiction, and/or graphic novels to read.

### June 2022 - New Books on Online Recreational Reading

#### Research Guides

Suggestions for popular fiction, non-fiction, and/or graphic novels to read.

[View all Guides and More results](#)



May 3, 2021



**Permafrost by Eva Baltasar**

Call Number: OverDrive

ISBN: 9781911508748

Publication Date: 2021

Permafrost's no-bullshit lesbian narrator is an uninhibited lover, a no-hope employee, and a some-time suicidal student of her own dislocated self. As she tries to break out of the roles set for her by a controlling, overprotective mother, a relentlessly positive sister, and a society which imposes a gut-wrenching pressure to conform, she contemplates the so-called will to live when that life is given, rather than chosen. Attempting to bridge the gap between the perennially frozen reaches of her outer shell and the tender core of her being, watching her relationships with family fracture and her many lovers come and go, the protagonist's reservations about staying alive become ever more pressing. Passionate, urgent and breathtakingly forthright, this fiction debut from **Catalan** poet Eva Baltasar was a word-of-mouth hit in its own language and is a gift for readers in English.

UNIVERSITY OF MICHIGAN LIBRARY

**M LIBRARY** SEARCH

Account Log In [ADVANCED](#) [PLINT](#)

Keyword  a history of catalan language  [Advanced](#)

[Everything](#) [Catalog](#) [Articles](#) [Databases](#) [Online Journals](#) [Guides and More](#)

Everything: results from the Catalog, Articles, Databases, Online Journals, and more

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Book

[Liedó-Guillem, Vicente, author.](#)

Historical dictionary of the Catalans / Helena Buffery, Elisenda Marcer.

Book

[Argenter, Joan A. ; Liedó-Guillem, Vicente, author.](#)

Biography

[Buffery, Helena.](#)

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Book

[Liedó-Guillem, Vicente](#)

2018

[Go to item](#)

Manual of Catalan Linguistics

Book

[Argenter, Joan A. ; Liedó-Guillem, Vicente, author.](#)

2020

[Go to item](#)

Bible Translation by Jews and Christians in Medieval Catalan-Speaking Territories

**Guides and More** 6 Results

[Journals on Lusophone Africa](#)

Research Guides

Suggested resources on Portuguese-speaking African countries: Angola, Cabo Verde, Guiné-Bissau, Mozambique, and São Tomé e Príncipe.

[May 2021 - New Books](#)

[Recreational Reading](#)

Research Guide

Suggestions for poetry, fiction, and/or graphic novels

[June 2022 - New Books](#)

[Recreational Reading](#)

Research Guide

Suggestions for poetry, fiction, and/or graphic novels

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May 3, 2021



## Permafrost by Eva Baltasar

Call Number: OverDrive

ISBN: 9781911508748

Publication Date: 2021

Permafrost's no-bullshit lesbian narrator is an uninhibited lover, a no-hope employee, and a some-time suicidal student of her own dislocated self. As she tries to break out of the roles set for her by a controlling, overprotective mother, a relentlessly positive sister, and a society which imposes a gut-wrenching pressure to conform, she contemplates the so-called will to live when that life is given, rather than chosen. Attempting to bridge the gap between the perennially frozen reaches of her outer shell and the tender core of her being, watching her relationships with family fracture and her many lovers come and go, the protagonist's reservations about staying alive become ever more pressing. Passionate, urgent and breathtakingly forthright, this fiction debut from **Catalan** poet Eva Baltasar was a word-of-mouth hit in its own language and is a gift for readers in English.

# Full Library discovery

## Gap:

A holistic, 'full-service' experience on the web?

## A holistic service

Post pandemic?

Expect holistic service online?

Make all capabilities of libraries discoverable (by humans but also by current and future search/chat)

## Beyond collections

People and expertise

Resource guides, website, ...

Discover events

Reserve equipment, rooms, ...

- #1 From discovery to guided discovery: fit for purpose learning support
- #2 From discovery to guided discovery: an interpretive layer for digital materials
- #3 Discovering the facilitated collection
- #4 Full library discovery: a holistic library experience
- #5 The inside out library: making institutional materials discoverable**
- #6 Programmatic discovery: reading (and chatting) at library scale
- #7 Entifying discovery: Readers, writers and entities
- #8 D2D2D: discovery to delivery to decision making
- #9 Pluralizing description and discovery

# Inside-out collections at Purdue University

## UNIQUE COLLECTIONS AT PURDUE



PSYCHOACTIVE  
SUBSTANCES RESEARCH  
COLLECTION



BARRON HILTON FLIGHT  
AND SPACE  
EXPLORATION



SUSAN BULKELEY  
BUTLER WOMEN'S  
ARCHIVES

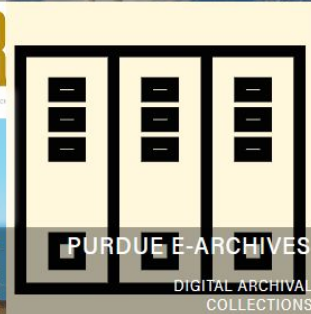


PURR  
ROAD  
SAFETY  
DATA

Research outputs:  
data, OA publications, ...



JOURNAL OF  
UNDERGRADUATE  
RESEARCH



PURDUE E-ARCHIVES  
DIGITAL ARCHIVAL  
COLLECTIONS



PURR  
RESEARCH DATA  
COLLECTIONS



PURDUE E-PUBS  
OPEN ACCESS  
PUBLICATIONS

Special collections & archives

Diamond access publishing



# Two ways to share your data with PURR

## Publish

### Data stored on PURR

Make your data files open access and available for download on PURR's website

Receive a DOI

Get indexed on search engines

Track views and downloads and see who is citing your data

10+ years of archival services

Meet funder requirements for data management and sharing

### PUBLISHING OR REGISTERING DATA

>>>>

## PURR Gives You Options

You can fully publish your data on PURR and make your data files open access, or you can register your dataset and get a DOI but store your data files elsewhere.

## Register

### Data stored elsewhere

Request a citation for data stored on your server, website, or anywhere else

Request a DOI (optional)

Get indexed on search engines

Specify how your data can be accessed, requested, or purchased



# Inside-out – discoverable

SEO, search engines

Share metadata

Blogs, presentations

Social media

Scholarly networks

Education

Guidance

Infrastructure &  
support (e.g.  
identifiers)

Gap:

Fragmented,  
pre-strategic

Seméрге

JOURNAL OF  
UNDERGRADUATE  
RESEARCH



PSYCHOACTIVE  
SUBSTANCES RESEARCH  
COLLECTION



BARF



JPUR  
JOURNAL OF PURDUE  
UNDERGRADUATE RESEARCH



AN PULKELEY  
ER



TRUCK RENT  
PURR

ROAD  
SAFETY  
DATA

JOBS

CESS  
TIONS

- #1 From discovery to guided discovery: fit for purpose learning support
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## Build your dataset

Search for keywords to begin analyzing and visualizing text data

## What is Constellate?

Constellate is the text analytics service from the not-for-profit ITHAKA - the same people who brought you JSTOR and Portico. It is a platform for teaching, learning, and performing text analysis using the world's leading archival repositories of scholarly and primary source content.

Constellate enables schools of all sizes to teach data and text analytics with a learning platform that empowers faculty, librarians, and other instructors to educate a new generation of learners in text and data analysis. Our solution, centered on student and researcher success, provides text and data analysis capabilities and access to content from some of the world's most respected databases in an open environment with a variety of teaching materials that can be used, modified, and shared. We envision a future where text and data analytics skills are being taught on Constellate in classes in all disciplines.

# Reading at library scale

## Volume of publications

## Search for patterns / significance in full text

## Tools and techniques

## Text Mining

This is a guide to UMN library and open access resources that are available in some form for text mining purposes.

### Contents

[Books](#) | [Newsletters & Magazines](#) | [Scholarly Sources](#) | [Citations](#) | [Government Documents](#) | [Linguistic Corpora](#) | [Social Media & Web](#)

#### New:

[The General Index \(Internet Archive / Public Resource\)](#)

The General Index is an open-access collection of n-grams (words and phrases) and metadata from over 100 million journal articles to support text mining. Articles include both open access and paywalled content, available here as derived data (not human-readable text).

#### TDH Studio

ProQuest's text and data mining tool provides text-mining access to news and scholarly content including historical and contemporary newspapers, scholarly journals, and archival primary sources. There are two levels of access:

1. **Full workbench access** is limited to a single research team at a time and requires Python or R skills. Faculty, postdocs, and Ph.D. students can reach out to [dash@umn.edu](mailto:dash@umn.edu) to inquire about access.
2. **Visualization access** is a web-based tool that doesn't require any coding skills, and is available to all at UMN - [register for an account here](#).

#### PubMed Central Article Datasets

Over four million articles from full-text biomedical and life sciences journal articles in PubMed Central are available in XML and plain text formats via Amazon Web Services.

### Books

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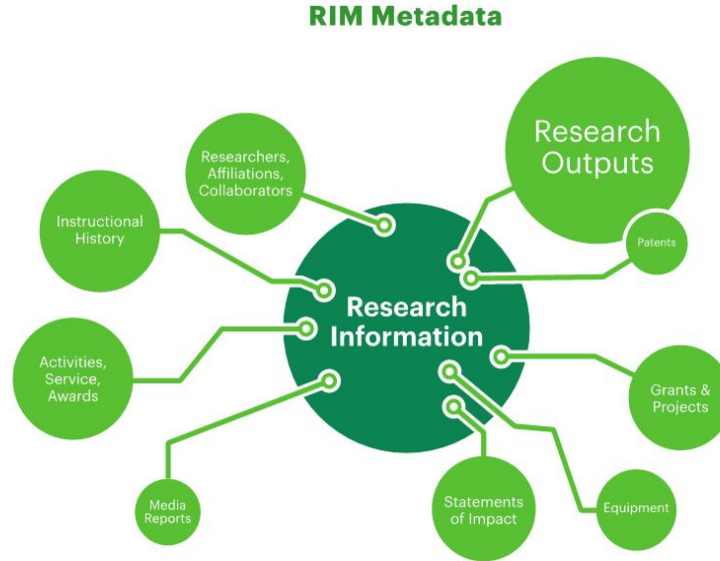
# Entification

## Strings vs things

Create singular identity for resources. Collect data about that identity

Identifiers (Orcid, DOI, ROR, ...)

Relationships between entities



"RIM Metadata" by [OCLC Research](#), from *Research Information Management: Defining RIM and the Library's Role* ([doi.org/10.25333/C3NK88](https://doi.org/10.25333/C3NK88)), CC BY 4.0

Example .. Research information management

# Entification

Become part of  
emerging fabric of  
research and learning

Education,  
awareness, assigning,  
use, ...

Hooks and handles for  
systems, workflows, ...

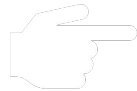
The screenshot shows the Dimensions research profile for Stephen Pinfield, a researcher at the University of Sheffield. The profile includes a list of filters on the left, such as Publication Year, Researcher, and Research Categories. The main content area displays the researcher's overview, including their name, affiliation, and a list of publications. A line graph shows the researcher's citations over time, with a peak in 2019. The right sidebar lists research categories and an overview of the researcher's profile.

The screenshot shows the Semantic Scholar research profile for S. Pinfield. The profile includes a search bar at the top, a list of filters on the left, and a main content area displaying the researcher's overview. The overview shows the researcher's name, affiliation, and a list of publications. A line graph shows the researcher's citations over time, with a peak in 2019. The right sidebar lists research categories and an overview of the researcher's profile.

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Increased  
desire to  
**optimize**  
collections  
and services

Focus on **decision**  
**support**  
(dashboard)



## Against real goals

Value (acquire what is needed, use what is acquired)

Open

Curricular support

Regional/local  
Collaboration

Plural (respect/represent  
different communities)

LibInsight



Choreo Insights™



Rialto™

Panorama

LibInsight

## D2D2D

Discovery choices  
will be made in  
data-driven  
environment that  
they help shape and  
are shaped by.

Collective,  
facilitated, fluid, .....

Gap:  
Fragmented.

#1 From discovery to guided discovery: fit for purpose learning support

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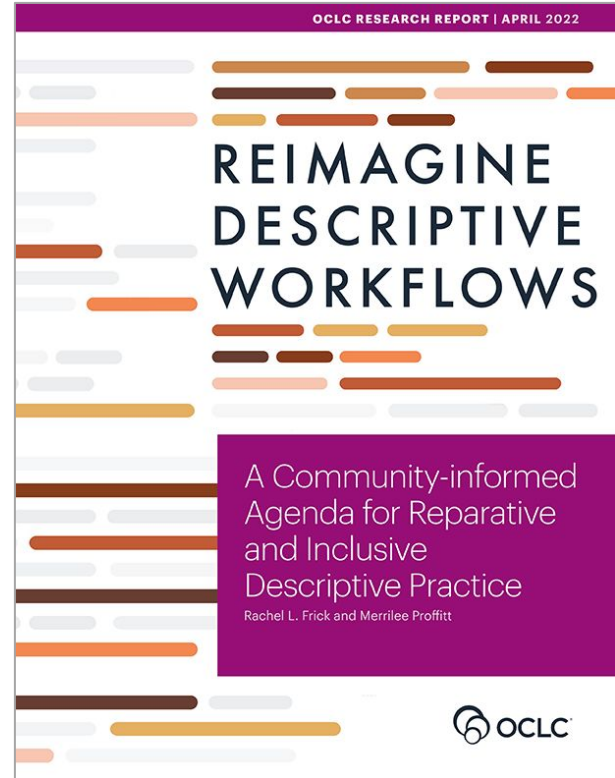
#8 D2D2D: discovery to delivery to decision making

**#9 Pluralizing** description and discovery



# Pluralization

- > Harmful description
- > Dated description
- > Don't respect cultural protocols or norms
- > Represent colonial or occupier perspective
- > Don't include important experiences or perspectives
- > Embody partial cultural assumptions



# Pluralization

Revealing relevant  
collections

Exhibitions

Facilitated: plural  
perspective

Mapping/adapting  
vocabularies

Amending discovery  
systems/UI

Gap:  
Much work to be done.

*O*  
*K*

## #10 The elephant in the room




can you draw me the elephant in the room again



Sure, here's another example of an "elephant in the room" using text:



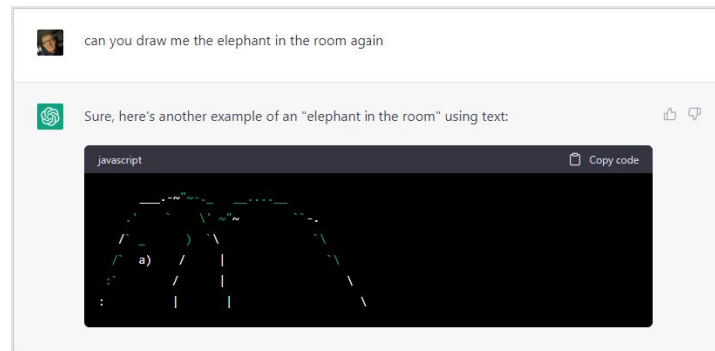
javascript

 Copy code[illegible]

# #10 The elephant in the room

Library learns to  
work  
with ...

- The **web**
- **Wikipedia**
- ... **AI**



FORBES > INNOVATION > AI

# The Unexpected Winners Of The ChatGPT Generative AI Revolution

Alex Zhavoronkov, PhD Contributor @

Expert in AI for healthcare and longevity  
biotechnology

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Feb 23, 2023, 07:13pm EST



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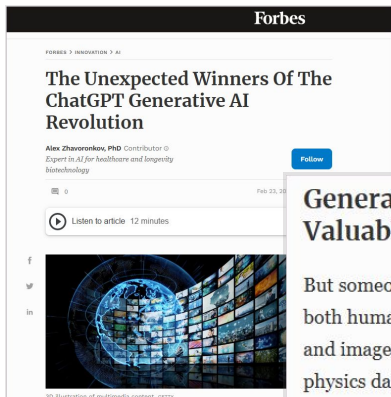
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t

in



3D illustration of multimedia content GETTY



## Generative AI Makes High-quality Data More Valuable

But someone needs to validate the output. And while it is possible to use both humans and algorithms to evaluate the quality of the text, voice, and images, when it comes to biology, chemical, and experimental physics data, only algorithms trained on this specific data and, in some cases, expert humans, can be good arbiters for generative AI. This makes very specialized high-quality data and expert humans very valuable for training of generative AI systems.

While much of the biomedical literature data is openly-available, much of it is still owned by the publishers. For example, many of the full-text articles containing valuable insights, tables, diagrams, and other data from the world's most credible sources is locked behind paywalls and available via subscription to the libraries, academic institutions, and companies. Publishers provide annual subscriptions that may cost millions or charge from a few to several thousand dollars for pieces of content like books or individual articles.

## Publishing Houses May be The Biggest Winners of the Generative AI Revolution

When looking at the near-magical output of ChatGPT and other [Large Language Models \(LLMs\)](#), one would expect the profession of a writer or a blogger to be demonetized and the value of the content owned by the publishing houses diminished. However, the reality is quite the opposite. The value of high-quality human-generated content, especially the content rich in verified facts, just increased exponentially. If we look at the data sets that ChatGPT was trained on, several corpuses of books and Wikipedia, with non-expert human reinforcement learning - the accuracy of the system, while very impressive, is lacking. It may provide very comprehensive and expert answers to the questions it is familiar with but when it lacks the information in the training set, it fails or even worse, provides false generated content.



write me a 200 word reference for lorcan dempsey



Lorcan Dempsey is an accomplished and respected leader in the library field. With a wealth of experience in library strategy, digital libraries, research management, and more, Dempsey has made a significant impact on the libraries and information services. His expertise and leadership have been shaping the direction of several organizations, including OCLC and Jisc.

In addition to his leadership roles, Dempsey is also a prolific writer and for identifying emerging trends and technologies and explaining their relevance to the library community. He has authored numerous articles, book chapters, and reports, and his editorship of several books has helped to shape the discourse in the library and information field.

Dempsey's contributions to the field have been recognized with numerous awards and honors, including the Miles Conrad Award from the National Information Standards Organization, Library Journal's "Movers and Shakers" award, and the Association for Library Collections & Technical Services' Ross Atkinson Lifetime Achievement Award. Overall, Lorcan Dempsey is a highly respected and influential figure in the library and information field, and his expertise and leadership have had a significant impact on the development of the field over the years.

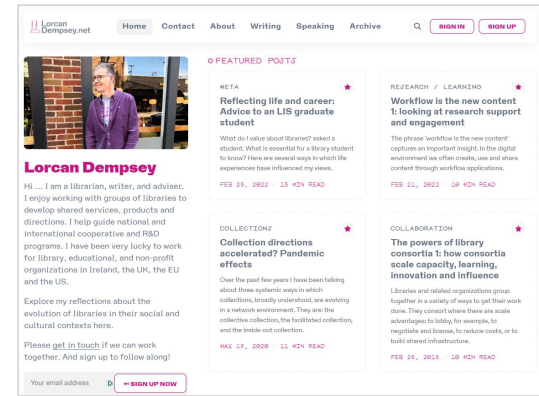
When did that happen?



what were your sources for the 200 word reference



As an AI language model, I do not have direct access to sources. However, I based the 200-word reference on my training data, which includes a wide range of sources such as news articles, academic publications, and other reputable resources. The information provided in the reference is a reflection of the widespread recognition and respect that Lorcan Dempsey has received in the library and information field, as well as his notable contributions to library strategy, digital libraries, research data management, and other areas.



Accessible & Rich documentation of career – influences answers?



# Some things libraries could do?

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- #9 **Pluralizing** description and discovery

#1 From discovery to **guided discovery**: fit for purpose **learning** support

#2 From ... to ...

#3 **Guided discovery**. Contextualise resources in context of curricula, learning goals, ..

#4 **Guided discovery**. Contextualise special collections materials in narrative and exhibition

#5 **Facilitate** access to curated network resources, contextualized by user interest

#6 **Full library discovery**. Evolve a holistic library web presence which reveals expertise, services, ...

#7 **Inside out**. Weave institutional research materials and special collections into fabric of web through use of identifiers, sharing of metadata, good SEO practices, ...

#8 Seek greater **programmatic** access to full text. Support responsible use of scholarly and cultural resources by new AI services. #researcheradvocate

#9 Advance **entified** approaches in the library community. Facilitate addition of identifiers to people and resources.

#10 **Dashboard**. Build the evidence base for optimized collections

#11 **Pluralise** collections, metadata, discovery -

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These are all areas receiving attention today in context of library services and discovery.

It is also now useful to think about services in the context of broader discoverability and question-answering.


Embed library expertise and distinctive resources in discoverable services.

# Thank you!

 Lorcan Dempsey.net

HomeContactAboutWritingSpeakingArchive

QSIGN INSIGN UP



**Lorcan Dempsey**

Hi ... I am a librarian, writer, and adviser. I enjoy working with groups of libraries to develop shared services, products and directions. I help guide national and international cooperative and R&D programs. I have been very lucky to work for library, educational, and non-profit organizations in Ireland, the UK, the EU and the US.

Explore my reflections about the evolution of libraries in their social and cultural contexts here.

Please [get in touch](#) if we can work together. And sign up to follow along!

✉ Your email address

SIGN UP NOW

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FEB 25, 2022 / 15 MIN READ

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Over the past few years I have been talking about three systemic ways in which collections, broadly understood, are evolving in a network environment. They are: the collective collection, the facilitated collection, and the inside-out collection.  
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FEB 28, 2018 / 10 MIN READ

Visible  
value  
will be  
used