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How do information specialists keep up to date?

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How do information specialists keep up to date?

Aaron Tay (Lead, Data Services)

Singapore Management University Libraries

11 June 2022

ARM 2022



Aarontay@gmail.com



@aarontay



<https://musingsaboutlibrarianship.blogspot.com>

A bit about myself

Academic librarian in Singapore since 2008

Generalist yet specialist – some past roles

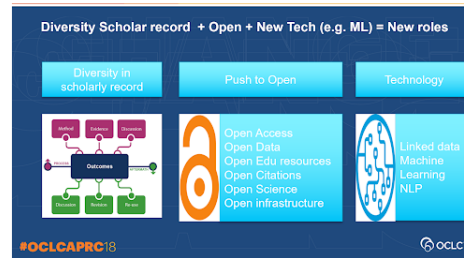
- Lead implementation of Libguides, Libanswers, chat service, Web scale discovery
- Bibliometrics support
- Subject Liaison – Accounting/Finance
- Library Analytics Manager
- Currently "Lead Data services"

Blogger at <https://musingsaboutlibrarianship.blogspot.com/> since 2009

Musings about librarianship – since 2009, 2k subscribers

Aaron Tay's Musings about librarianship (Subscribe by email)

Magazine ▾ | About me | Subscribe by email | Best of posts series | So you want to be a academic librarian in Singapore?



JUN 2 Diversity of Scholarly record + Push to Open + Deep learning

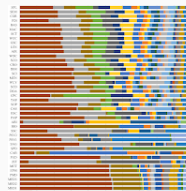
In late 2018, I gave a talk at OCLC Asia Pacific Regional Conference Meeting 2018 and I gave my thoughts on how I see the game changing for libraries in the years to come based on 3 fundamental trends.

Earlier this year in Jan 2022, I was invited to give a talk to reflect on things how I view things 3 years on....

My thesis - Diversity of Scholarly record + Push to Open + Deep learning = CHANGE

Let me first quote from what I wrote in 2018.

"This slide above is in the nutshell is the way I think about the biggest drivers of change in academic libraries for the next decade or so.



MAY 23 Comparing disciplinary coverage of 56 databases, measuring ORCID adoption, measuring FAIRness in repositories and mnra

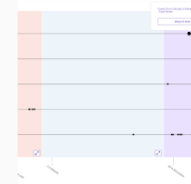
10.2345/
prefix

APR 20 5 things you may not know about DOIs or why there is more to DOIs than meets the eye

Note: This is adapted from an internal talk I gave at my place of

Optimal speed and
cy, CY Wang, HYM Li
huge number of featur
(N) accuracy. Practica
Cite Cited by 3285

MAR 24 5 ways Google Scholar helps you get access to what you discovered
If there is one academic discovery search that dominates it is Google Scholar.



MAR 14 Web of Science and Scholarly adds citation context features with a twist
Web of Science - Pilot- enhanced cited references

Some topics on my blog

Discovery

- Article search (e.g. Google Scholar vs Summon)
- Data search (e.g. Scholix, COUNTER RD, MDC etc)
- Evidence synthesis

Delivery

- Appropriate copy problem
 - OpenURL, GetFTR, Libkey
- Easy authentication
 - Seamless access, CASA
- Access broker browser extensions

Open Access issues

- Discovery & Delivery
 - Versioning issues
 - Institutional repository
- TDM possibility

Scholarly metadata

- KBART, ERM, COUNTER
- Open Scholarly metadata eg Crossref, Datacite, ORCID
- Infrastructure issues

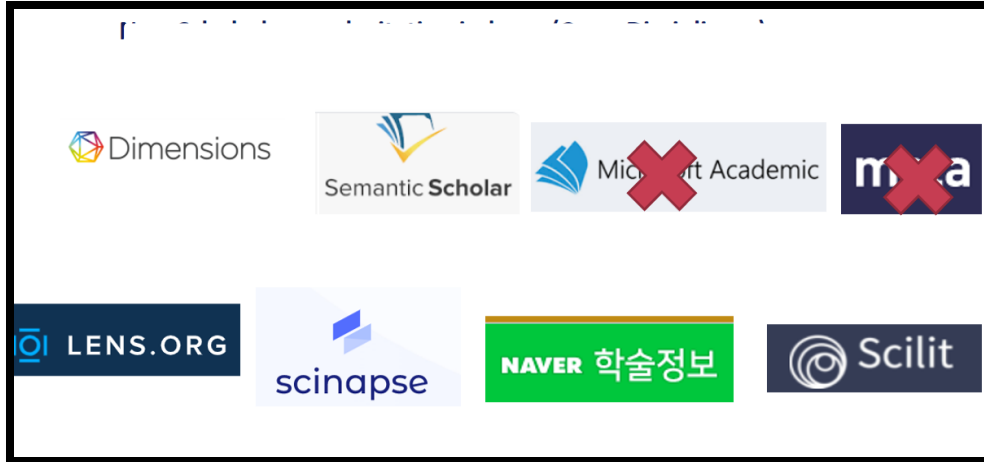
Bibliometrics

- Metrics and Assessment
- Science mapping

Machine learning

- Text mining
- Technical – **Word** embeddings, transformers and language models

Where are all these new academic tools coming from?



New mega citation indexes



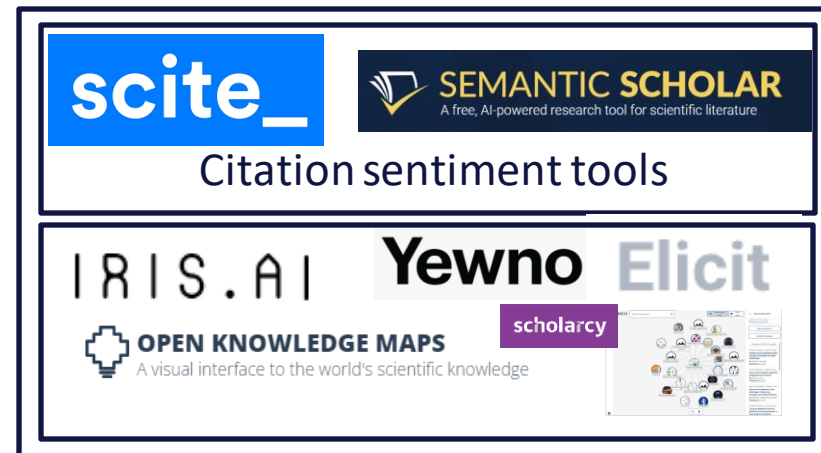
Citation based literature mapping services



Science mapping tools



Research Graphs



Full-text extraction

KEY TO UNDERSTANDING NEW TOOLS

Underlying data

Technique

Use case +
Business model

KEY TO UNDERSTANDING NEW TOOLS eg Elicit

Elicit

FAQ Tasks Starred

what are the effects of mindfulness on leadership

Add a filter Add a column (7)

.bib .csv Clear unstarred

Paper title	Takeaway from abstract	Year	Citations	PDF	Region	Detailed study design
☆ Mindful Leader Development: How Leaders Experience the Effects of Mindfulness Training on Leader Capabilities	Mindfulness training may have a positive effect on leader self-leadership and leadership capabilities.	2019	19	PDF	Germany	qualitative research, cor structured interviews
☆ Mindfulness and Leadership: Communication as a Behavioral Correlate of Leader Mindfulness and Its Effect on Follower Satisfaction	There is a positive link between leaders' dispositional mindfulness and the wellbeing of their followers.	2019	24	PDF	Germany, Austria, and the German speaking part of Switzerland	a nested survey testing using hierarchical linear
☆ Leading with mindfulness: Exploring the relation of mindfulness with leadership behaviors, styles, and development	Broadly, mindfulness has beneficial effects for leadership.	2015	30	-	-	-
☆ Mindfulness training for school administrators: effects on well-being and leadership	Mindfulness could be integral in the lives and education of school leaders.	2018	10	-	-	an in depth interview wi before and after the im program, observation n

Underlying data
(Semantic Scholar)

Technique
(Deep learning
Language models-
GPT3)

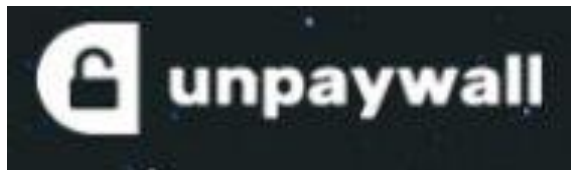
Use case +
Business model
(extract research
matrix of paper)

Some sources of Open Scholarly Metadata



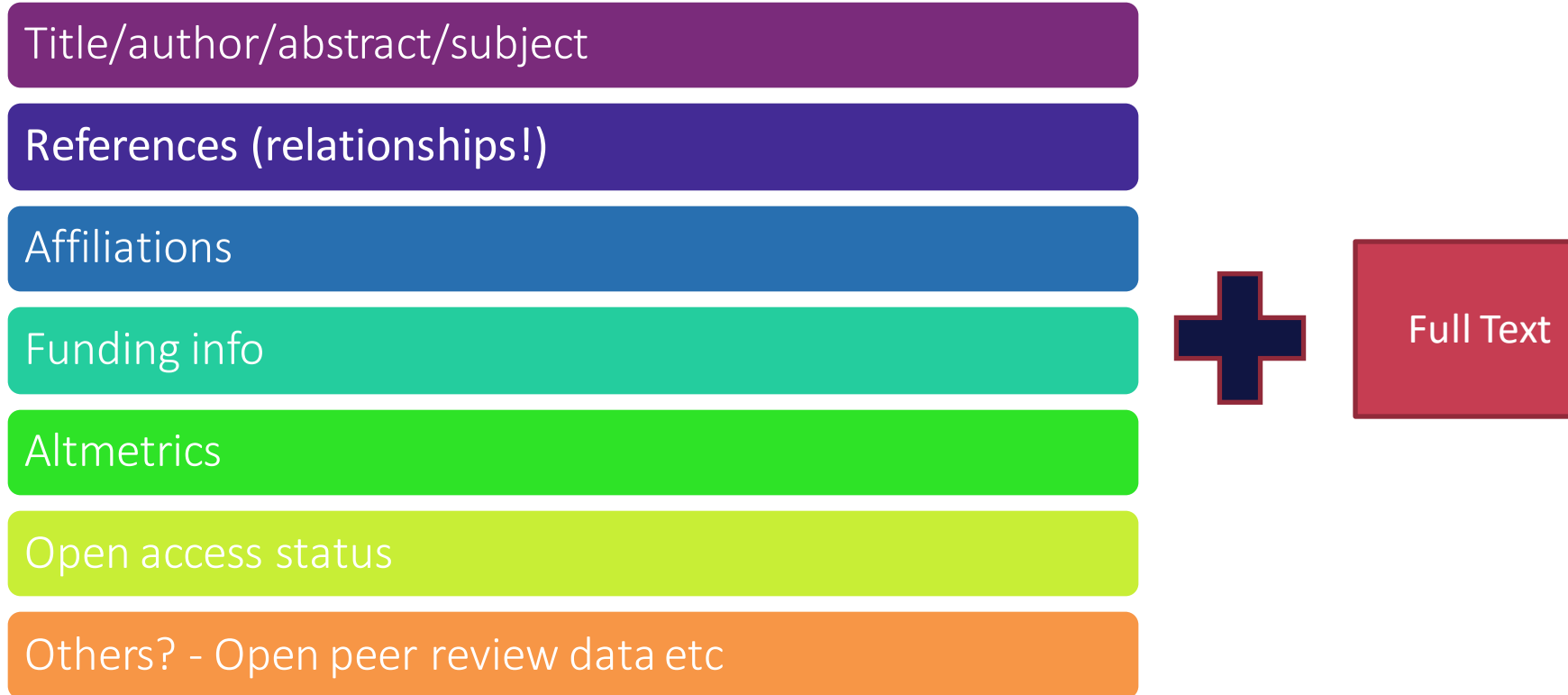
[Crossref](#), [Datacite](#), [ORCID](#), [ROR](#), [NIH](#)

Some sources of Open Scholarly Metadata (II)




[CORE](#), [BASE](#), [Wikidata](#), [OpenCitations](#), [EuroPMC](#), [Lens.org](#), [Unpaywall](#), [Internet Archive](#) (Fatcat)

WHAT CAN YOU DO IN A WORLD WHERE ALL THIS SCHOLARLY INFO AND FULL TEXT IS OPEN AND AVAILABLE?





Aaron Tay

 Apr 16, 2021 · 13 min read ·  Listen


3 new tools to try for Literature mapping — Connected Papers, Inciteful and Litmaps

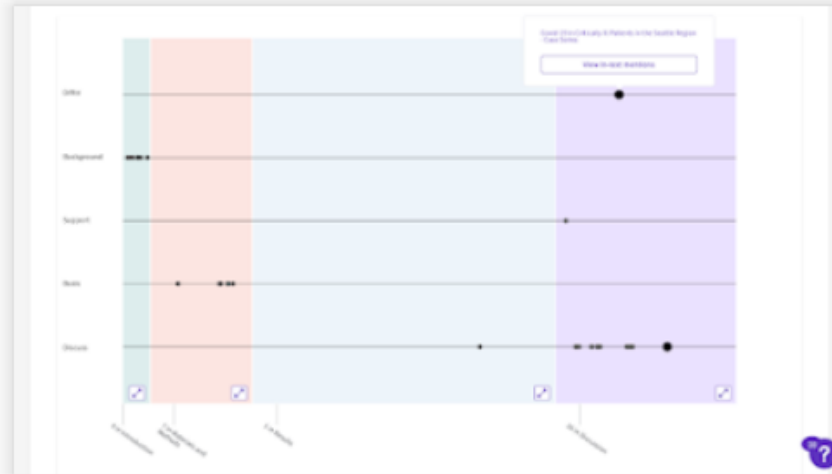
Update Aug 2021 : Since I wrote this, [ResearchRabbit has gone public](#), [see my review](#) . [ResearchRabbit](#) occupies roughly the same space as [Litmaps](#) and is good enough in my opinion to be another one of my favourites to be worth trying out.

Tired of entering keywords and getting thousands of hits and not sure where to start your literature review? Or having the opposite problem and entering a keyword and getting few relevant results?

Knowledge – Scholarly open metadata + Bibliometrics + User behavior

MAR
 14

Web of Science and Scholarcy adds citation context features with a twist



Web of Science - Pilot- enhanced cited references

Bibliometrics + Deep learning (a bit) + Open access/metadata

Word of warning.....



Farhad

May 25 · 5 min read · [Listen](#)



The Illusion of Knowledge and Expertise in the Field of Evidence Synthesis and Systematic Reviewing

The greatest enemy of knowledge is not ignorance, it is the illusion of knowledge.
Stephen Hawking

Yesterday, a colleague approached me with a few questions. He also asked if I knew how to run meta-analyses. I said, yes, I know; however, I will speak to our statistician to see her availability and fees. He found my suggestion very strange, considering that I had the knowledge and availability and he was paying handsomely, but I refused to run the analysis. After two decades of working in the field, I know that staying ethical and professional is extremely hard for greedy ones, especially when



3



1



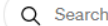
...

waiting right at the corner. I

m/new-story

been entering/importing numbers into CDSC State Review Manager or R and

Get unlimited access



Search



Farhad

37 Followers

The Proper Information Scientist with
Career and Life Lessons

Following



More from Medium



H R Berg Bretz

**AI machines as moral agents,
consciousness required?**

Twitter

Whenever I find an interesting organization or author, I check if he has an active Twitter account and consider following...

Open Access | [Published: 06 May 2022](#)

Search where you will find most: Comparing the disciplinary coverage of 56 bibliographic databases

[Michael Gusenbauer](#) 

[Scientometrics](#) **127**, 2683–2745 (2022) | [Cite this article](#)

4755 Accesses | **69** Altmetric | [Metrics](#)



Mailing list/groups/blogs

- <https://pubtechradar.substack.com/>
- [Business Librarians involved in Evidence Synthesis](#)
- [OpenAlex users, Unpaywall discussion](#)
- ScholarlyKitchen
- [Medium][John Hubbard](#), [Cassie Kozyrkov](#), [Farhad](#)

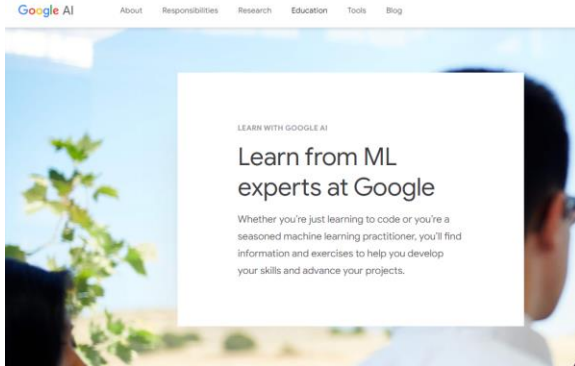
Twitter - bibliometrics + search

- @nealhaddaway
- @LudoWaltman
- @MsPhelps
- @jeroenbosman
- @FarhadShokrane
- @LizzieGadd
- @researchremix
- @sjcporter
- @jschneider
- @hug_sven
- @albertomartin
- @CameronNeylon
- @Phil_Gooch
- @joshmnicholson
- @tonygrr
- @searchliaison
- @lisalibrarian
- @rschon
- @g3om4c
- @f_renaville
- @johnseguin88
- @crossreforg
- @datacite
- @i4oc_org
- @opencitations
- @OurResearch_org
- @oatp
- @semanticsscholar
- @TheLensOrg
- @TheBibliomagic
- @elicitorg

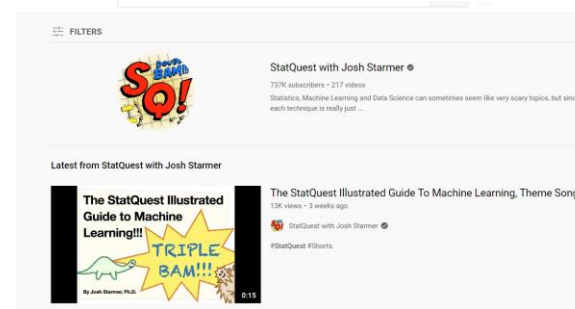


Turn on notifications!

Keeping up with statistics and Machine learning



<https://ai.google/education/>



https://www.youtube.com/results?search_query=statquest

Medium is a big source of help as well

Academic articles to keep up – I love reading and tweeting them

Aaron Tay @aaronray

[Read] Search where you will find most: Comparing the disciplinary coverage of 56 bibliographic databases - this must be the geekiest paper I've even read on comparing coverages of academic databases. But fascinating.



link.springer.com
Search where you will find most: Comparing the disciplinary coverage of 56 bib...
Scientometrics - This paper introduces a novel scientometrics method and applies it to estimate the subject coverages of many of the popular English...

2:55 AM · May 14, 2022 · Twitter Web App

View Tweet analytics

11 Retweets 46 Likes

Tweet your reply


Aaron Tay @aaronray · May 14
Replying to @aaronray
The general idea of BOK method used is to use specially selected unigram keywords to estimate subject coverage of all databases into Scopus's 26 ASJ categories. 14 such keywords are used for each category (2)

Aaron Tay @aaronray · May 14
The idea roughly is... pick a keyword say neutrino and search in Scopus for say title (he also does it for abstract, all fields) and try to use it to estimate "Physics and Astronomy" area. Recall is say 0.38% ie of all records in that area, 0.38% have that in title and (2)

Aaron Tay @aaronray · May 14
you calculate precision, eg of all the records with "neutrino" in the title, 81.4% are attributable to Physics and Astronomy. You then adjust for the fact Scopus can attribute multiple subjects to each record (3)

Aaron Tay @aaronray

[Read] Measuring Research Information Citizenship Across ORCID Practice frontiersin.org/articles/10.33...
Graph comparing countries is interesting.
Australia/Poland/Portugal doing well. Though it takes some background to explain what "adopt %" vs "Engagement ORCID completeness" means (1/)



12:06 AM · Apr 11, 2022 · Twitter Web App

View Tweet analytics

17 Retweets 4 Quote Tweets 32 Likes

Simon Porter @sjcporter

Inspired by some discussion with @aaronray, I've put together an interactive dashboard for @ORCID_Org institutional adoption and engagement: datastudio.google.com/u/0/reporting/... It is based on the data in in doi.org/10.3389/frma.2... Some features and observations...



4:32 PM · May 17, 2022 · Twitter Web App

43 Retweets 3 Quote Tweets 88 Likes

But how do I find them?

← Thread

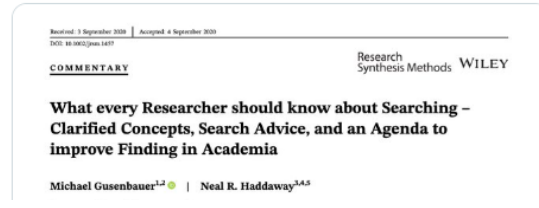


Neal R Haddaway
@nealhaddaway

Check out our new paper on the need for better understanding of academic searching:
onlinelibrary.wiley.com/doi/10.1002/jr...

#InformationRetrieval #MedLibs #EvidenceSynthesis

A thread with our key points... (1/20)



COMMENTARY | Open Access | ⓘ ⓘ

What every researcher should know about searching – clarified concepts, search advice, and an agenda to improve finding in academia

Michael Gusenbauer and Neal R. Haddaway

First published: 08 October 2020 | <https://doi.org/10.1002/jrsm.1457> | Citations: 7

...ther, we suggest an urgently needed agenda toward search literacy as the norm in academic research and fit-for-purpose search systems.

Michael Gusenbauer and 5 others

3:16 PM · Oct 9, 2020 · Twitter Web App

Google Scholar

Recommended articles

☆	Webometric analysis of open access repositories of health and medical sciences in the continent of North America S Ghosh, BK Roy LIBRARY HERALD - 6 days ago	▼
☆	Open source software adoption for development of institutional repositories in university libraries of Islamabad MK Khan, A Sheikh Information Discovery and Delivery - 20 days ago	▼ HTML
☆	Mammoth UK research assessment concludes as leaders eye radical shake up H Else Nature - 19 days ago	▼
☆	Institutional repositories and copyright in Greek academic libraries K Kyprianos, E Lygkou JLIS. it - 26 days ago	▼ PDF
☆	Identifying Needs of Research Faculty Based on the Characteristics of Their Publications and Their Cited References at a Research Institution L Salisbury, JJ Smith Science & Technology Libraries - 28 days ago	▼
☆	Improving the Reliability of Literature Reviews: Detection of Retracted Articles through Academic Search Engines E Pastor-Ramon, I Herrera-Peco, O Agirre, M García-Puente, JM M... European Journal of Investigation in Health, Psychol... - 26 days ago	▼ HTML

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Collection: Business review

[The Systematic Literature Review: Advantages and Applications in Nonprofit Scholarship](#)

Voluntas

Sept. 28, 2021 | Beth Gazley

Bookmark to ResearchRabbit

Add to Collection: Business review

Voluntary and nonprofit sector studies are relatively young and still seeking common intellectu...

[Understanding the Firm in the Informal Economy: A Research Agenda](#)

The European Journal of Development Research

Feb. 14, 2022 | Amanda Haarman, Marcus Møller Larsen, Rebecca Namatovu

Thank You!



Aarontay@gmail.com



@aarontay



<https://musingsaboutlibrarianship.blogspot.com>

Acknowledgement: Phil Gooch (Scholarcy) for advice on text mining applications