

Guiding students through a shifting landscape: integrating Open Research topics into information literacy training at the University of Strathclyde

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Rationale

3 key reasons why training students in Open Research is beneficial:

- enhances research quality and integrity
- enables students to become more effective *consumers* of research
- supports social justice

(Azevedo *et al.*, 2019)

Benefits for students...

- scientific literacy
- student engagement
- attitudes towards science [research]

(Pownall *et al.*, 2022)

Radical participation



Alicia Wise
@wisealic



@JSendall it is not enough to open up our prestigious papers to people without economic means; we must beware of the phrase do no harm. Radical participation is necessary for authors and potential authors everywhere #oa #UKSG2022



10:09 AM · May 31, 2022 · Twitter for iPhone

Wise, A. (2022) [Twitter] 31 May. Available at: <https://twitter.com/wisealic/status/1531563614645239808> (Accessed 20 June 2022)

Context at the University of Strathclyde

Two different teams within Library Services:



Research and Learning Support Team (RLS)

Scholarly Publications
and Research Data Management (SPRD)



Photo by [Nick Fewings](#) on [Unsplash](#)

Existing online information literacy training: Academic Library Skills (ALS) - MyPlace/Moodle

<https://classes.myplace.strath.ac.uk/course/view.php?id=24679>

Academic Library Skills: Topics

Academic Library Skills: Topics



Keyword
Selection

Advanced Search
Techniques

Finding Articles

Google & Google
Scholar

Evaluation

Plagiarism

Referencing

Referencing using
EndNote Online

SUPrimo
Advanced

Choosing a
Database

Project to revise ALS course, led by RLS

- Revision of existing content
- Creation of new content, including an entirely new module focused on copyright

Timescale:

- The project began in February 2022
- March-April – creating and revising curriculum plans
- April – June – creating and revising video and other activities
- June-July – uploading of content to new 2022/20232 module
- August 2022– publishing of new and revised content to 2022/2023 Myplace site

Outcomes

- New **learning outcomes** relating to Open Access/Open Research introduced to ALS modules including:
 - Finding Articles
 - Evaluation
 - Choosing a database

For example, the 'Finding articles' module now includes the learning outcomes, 'Identify a range of tools that can be used to locate Open Access content'

- Three new **videos** have been created:
 - 'Finding Open Access materials' (in the Finding Articles topic)
 - 'Taking your evaluation skills further: evaluating scholarly publications' (in the Evaluation topic)
 - 'Accessing Open Access databases' (in the Choosing a Database topic)

• Assessment activities such as **quizzes** now incorporate questions on the new forms of scholarly publication and Open Research practices

Future Plans?



- Create new content focused on Research Data Management
- We are also working to revise existing content on Open Access publishing and bibliometrics, but this could be expanded to include content relating to broader research dissemination activities and Citizen Science
- Explore the possibility of developing more 'advanced' Open Research-related content aimed at postgraduate taught students and doctoral researchers

Take home messages:

For information literacy instruction to be sustainable in future, it is vital that it adapts to include concepts and skills associated with Open Research

Collaboration is key!



References

Azevedo, F. *et al.* (2019) *Introducing a framework for Open and reproducible research training (FORRT)* Available at: <https://doi.org/10.31219/osf.io/bnh7p> (Accessed 10 February 2023)

Basili, C. (2017) 'Chapter 9 – Information Literacy Requirements for Open Science', in Sales, D. and Pinto, M. (eds) *Pathways into Information Literacy and Communities of Practice*. Amsterdam: Elsevier, pp. 229-248. Available at: <https://doi.org/10.1016/B978-0-08-100673-3.00009-5> (Accessed 24 February 2023)

Pownall, M. *et al.* (2022) The impact of open and reproducible scholarship on students' scientific literacy, engagement, and attitudes towards science: a review and synthesis of the evidence Available at: <https://osf.io/preprints/metaarxiv/9e526/> (Accessed 10 February 2023)

Thank you!

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