



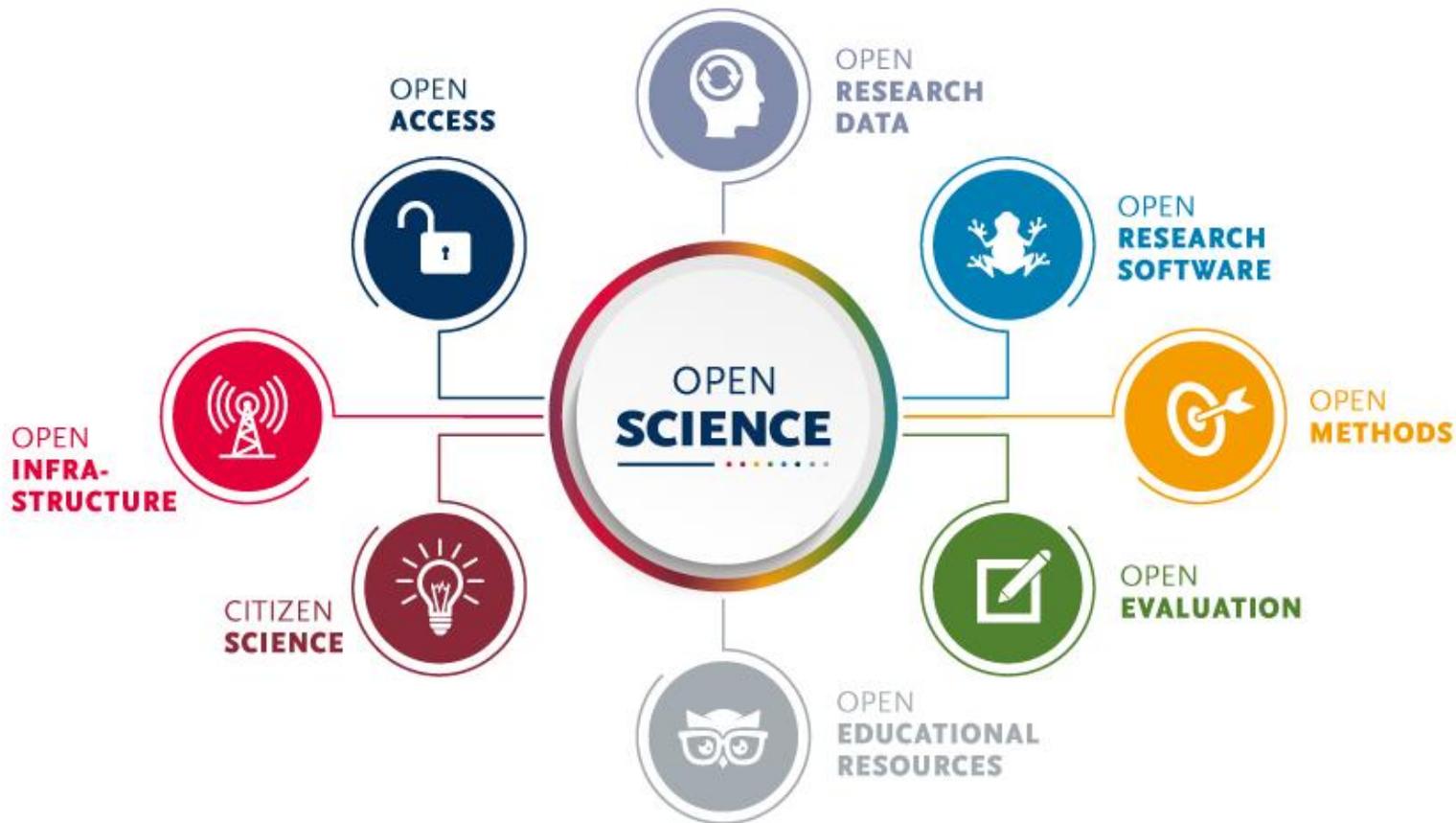
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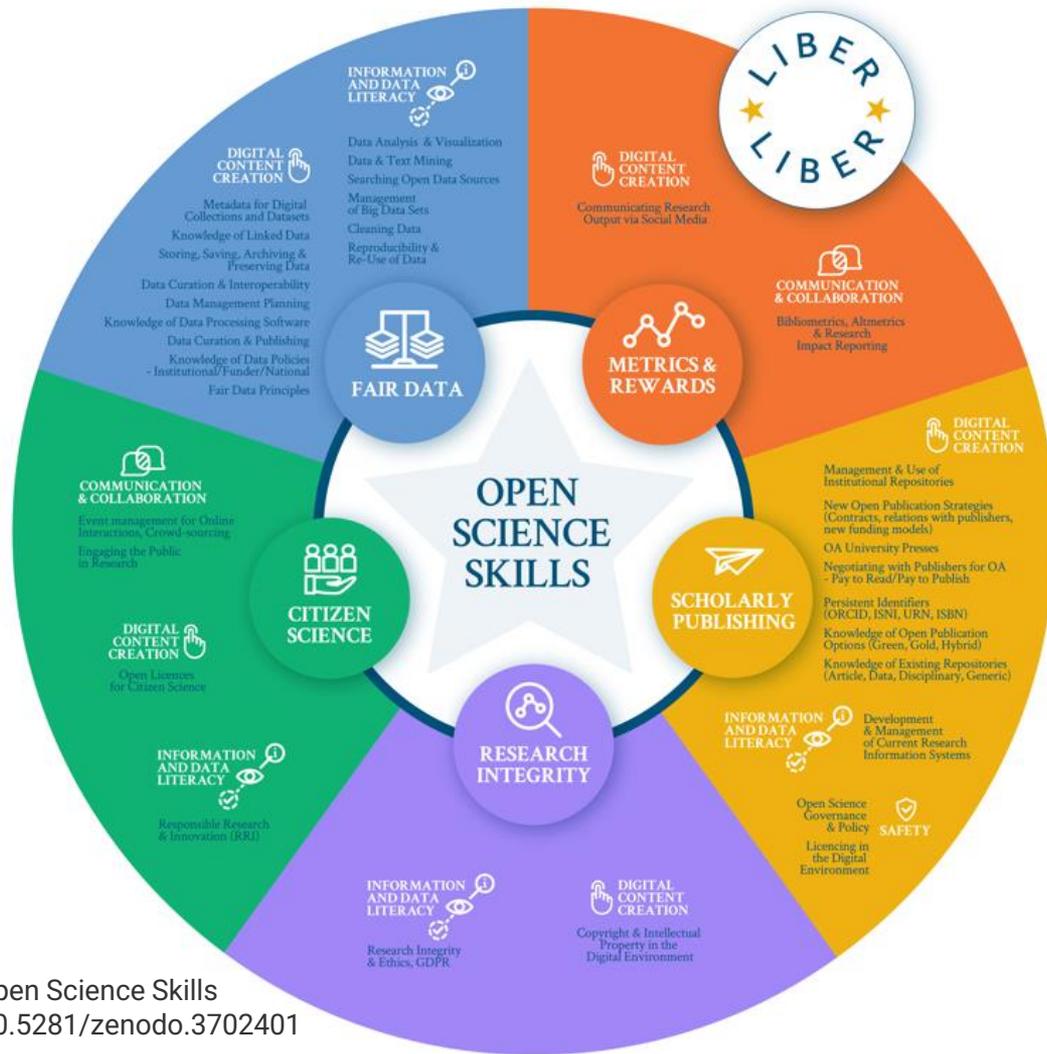
Open Science

What, why & how

Michelle Dalton

Head of Research Services
UCD Library





McCaffrey, Ciara et al. (2020). Open Science Skills Visualisation. Zenodo: doi.org/10.5281/zenodo.3702401

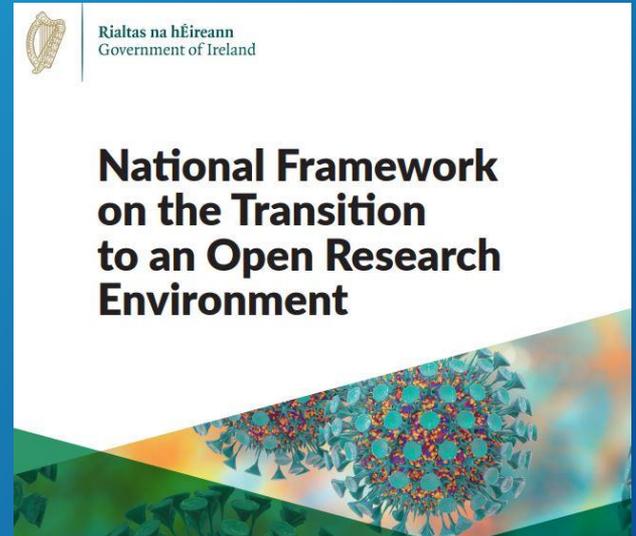
The Acceleration of Open Science

- Funder Requirements (Plan S 1st Jan 2021)
- COVID-19, climate change & other global challenges that require urgent and collaborate solutions
- The Impact Agenda
- Combat challenge of mis- and dis-information



National Open Research Forum (NORF)

By 2030 “All Irish scholarly publications resulting from publicly funded research will be openly available by default”



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How Open Science supports Research Integrity

- Improves **transparency and reproducibility**
- Helps identify & **correct errors** more efficiently
- Researchers can access a wider range of research, promoting greater **interdisciplinarity** and **more diverse collaborations**
- Increases **public trust** in science through greater transparency reducing mis- and disinformation in society





**International
Science Council**

<https://council.science/current/blog/tbb-webinars-takeaways>

BLOGS

VIDEOS

Six Takeaways on Science Communication from our Talk Back Better Webinar Series

Last week, the ISC concluded its successful webinar series on science communication. Nick Ishmael-Perkins, Senior Consultant at the ISC and host for the series, sums up the key takeaways from our weekly sessions that took place from May to June 2022.

“Research institutions need to be designed better for trust

Too many institutions approach trust as an inherent right and don't invest in the relationship building or transparency that underpins that”

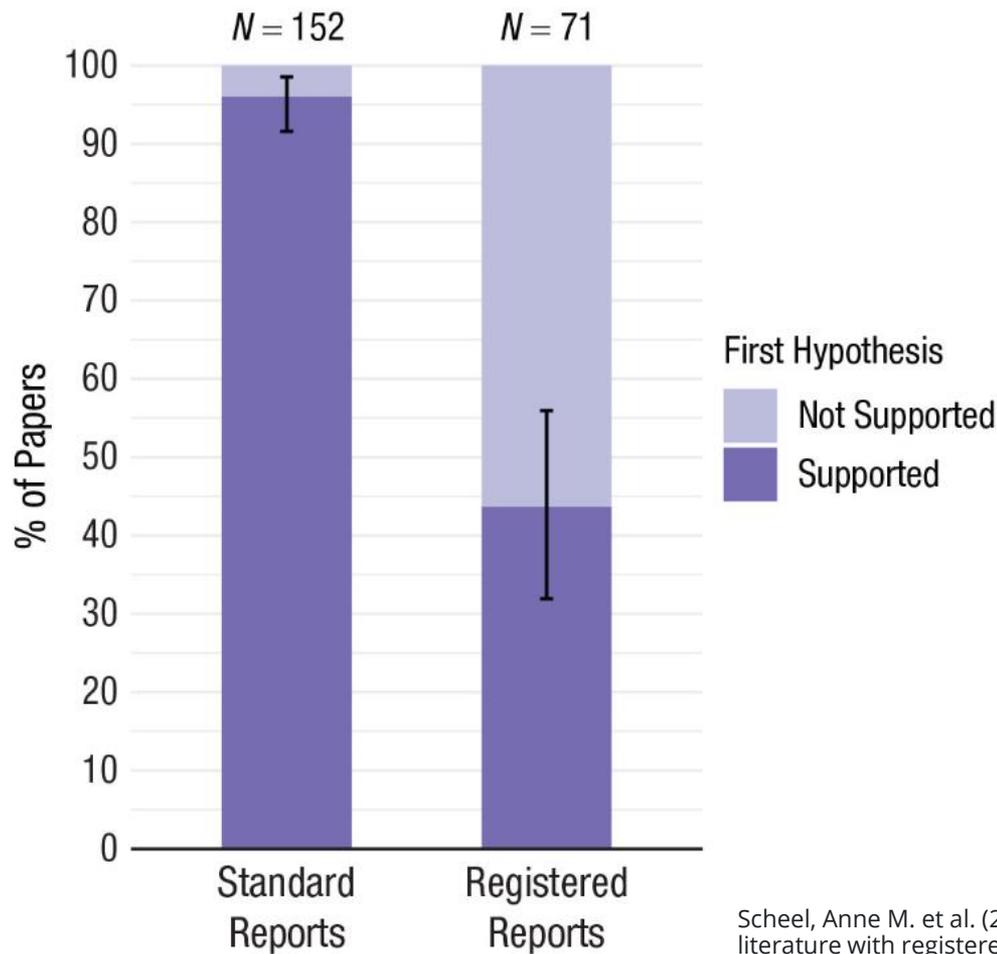


Open Outputs

- **Open Access to publications** improves knowledge transfer
- Supports **greater visibility of research & researchers** including those who may not publish in “high impact” journals or publishing on less ‘popular’ topics
- **Preprints** help errors to be spotted & fixed earlier
- **Data & code sharing** increases reproducibility

Open Methods

- **Pre-registration** of hypotheses before study starts
- **Registered Reports** (manuscripts accepted for publication before data collection & analysis so removes incentive for selective reporting)
- Open methods provide opportunity for feedback & potential **improvements** before data collection



Positive result rate significantly lower in registered reports than in standard reports

**Publisher bias?
Reporting bias?
Citation bias?**

Scheel, Anne M. et al. (2021) An excess of positive results: comparing the standard psychology literature with registered reports. *Advances in Methods and Practices in Psychological Science* April-June 2021, Vol. 4, No. 2, pp. 1–12. DOI: 10.1177/25152459211007467

Fig. 2. Positive result rates for standard reports and Registered Reports. Error bars indicate 95% confidence intervals around the observed positive result rate.

How Open Science benefits you and your research?

- A larger and more diverse audience for your research, especially outside the academic community
- Greater & faster innovation, re-use and uptake of your research findings, increasing potential impact
- Increase citation impact* from greater visibility and access
- Get credit for creating and sharing broader outputs like data, code etc
- Comply with funder requirements
- Access & re-use existing research data

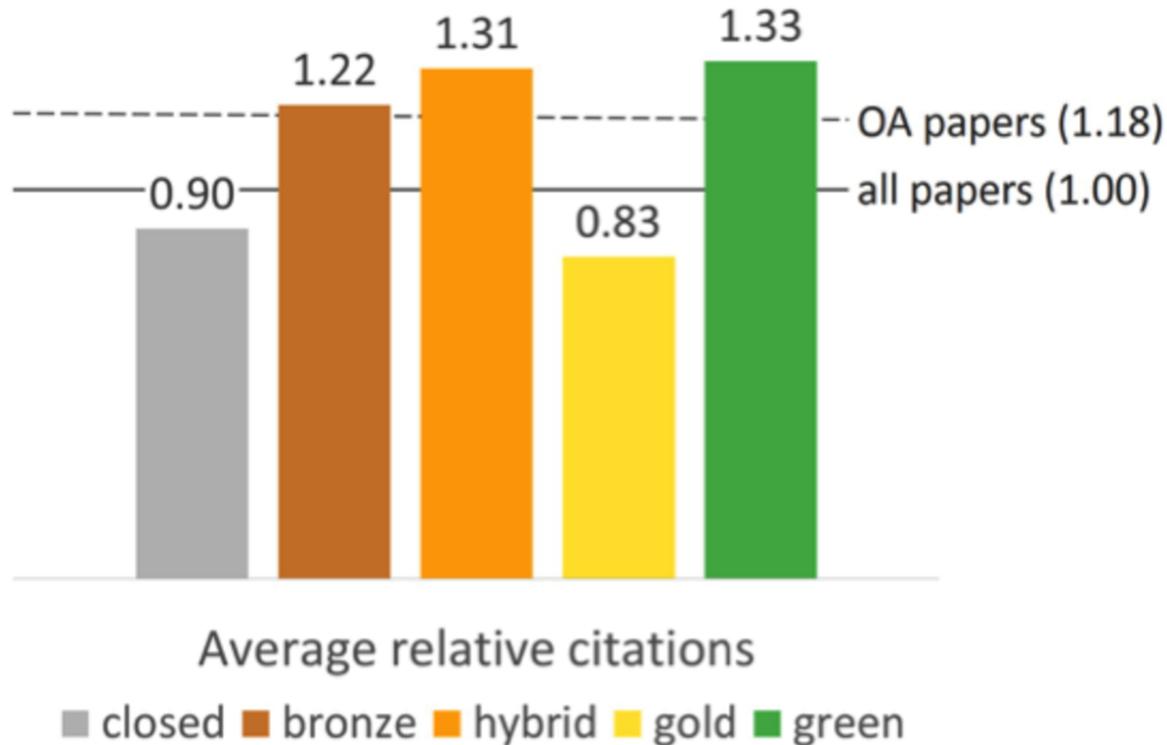
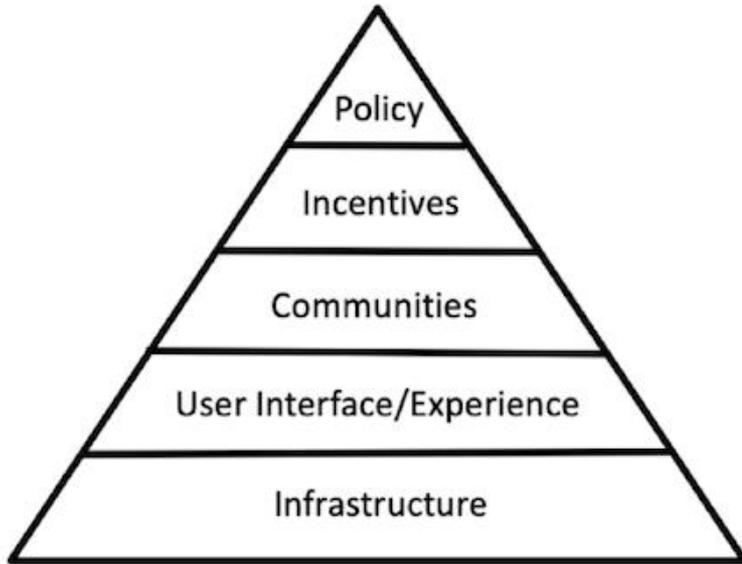


Figure 5: Average relative citations of different access types of a random sample of WoS articles and reviews with a DOI published between 2009 and 2015. DOI: 10.7717/peerj.4375/fig-5

What Open Science means for you & your research in practice?

- A spectrum not binary
- Looks different for different disciplines and methodologies
- “As open as possible, as closed as necessary”
- Progress not perfection: What next step can I take?
- A shift is happening in research assessment (DORA, CoARA etc.) from venue level towards article level evaluation

COS Strategy for Culture & Behaviour Change



Make it required

Make it rewarding

Make it normative

Make it easy

Make it possible

**Academic
Libraries**

IReL Open Access Publishing Agreements (26)



Acadamh Ríoga na hÉireann
Royal Irish Academy

SPRINGER
NATURE



OA articles published

2021: 2813 (42%)

2022 est: 3,164



Rockefeller
University
Press

THE
ROYAL
SOCIETY



Taylor & Francis
an **informa** business

AR **ANNUAL**
REVIEWS



ELSEVIER



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(Irish Universities Association, 2006) O'Carroll, C.

47109

Publication

Corporate governance, accountability and mechanisms of accountability : an overview
(Emerald, 2008) Brennan, Niamh ; Solomon, J. (J Purpose – This paper reviews traditional corporate governance and accountability research, to suggest opportunities for future research in this field. The first



32961 **Scopus© Citations 278**

Publication

Elderly care in Ireland - provisions and providers
(University College Dublin. School of Social Justice, 2010-0

31797

Publication

Accounting research : a practical guide
(Oak Tree Press, 1998) Brennan, Niamh

30712

Publication

Equality in education : an equality of condition perspective
(Sage Publications, 2005) Lynch, Kathleen
Transforming schools into truly egalitarian institutions requires a holistic and integrated ap-





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- AIP
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- Elsevier (200 articles p.a.)
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DOAJ lists 10,000+ reputable OA journals, which do not charge authors open access publishing costs.

Funder Platforms

A number of research funding organisations have publishing platforms that allow eligible grantees to publish OA at no cost to authors:

Examples:

- Open Research Europe (European Commission)
- HRB Open Research
- Wellcome Open Research

OPEN ACCESS PUBLISHING
OPTIONS AT NO COST TO
AUTHORS

no cost
to author

Self-archive in an OA Repository

Upload your research to an OA repository, e.g. **Research Repository UCD**

- Submit the Author's Accepted Manuscript (AAM) version
- Some journals impose a 6-48 month embargo with this route.

Rights Retention

If funder conditions require research to be made OA immediately*, you should retain:

- copyright, where possible and
- the right to apply a CC BY licence to the AAM

This will override the publisher's embargo policy.

Submission text:

cOAlition S Rights Retention Strategy (including SFI), requires authors to include this statement in submission letter and/or acknowledgements:

"This publication has emanated from research [conducted with the financial support of/supported in part by a grant from] [funder name] under [grant number]

arising from this submission."

FUNDING OPTIONS
FOR OA JOURNALS
WITH AUTHOR CHARGES

with
author
charges

Article Processing Charges (APCs)

APCs may be payable by authors to cover OA publishing costs in some journals.

Directory of Open Access Journals (DOAJ) lists reputable OA journals and their APCs.

Many subscription journals allow individual articles to be published OA upon payment of an APC. These are called 'hybrid' journals.

Funder requirements:

Some funders allow APCs as an eligible cost.

cOAlition S funders (including SFI) *do not* cover publication fees in hybrid journals *unless* they are part of a transformative OA publishing arrangement.

- Check if UCD Library has a publishing agreement with your publisher
- See **Plan S** Journal Checker Tool to check options for

[Making your research Open Access PDF guide](#)

IS OA “Predatory” publishing?

- Open Access is just an access model
- Always evaluate the credentials and quality of any publisher – subscription or open
- Research misconduct and authorship issues happen in subscription journals/paywalled articles too
- Open ≠ quality but it is an enabler and helps identify and correct misconduct and QRPs more quickly

Identifying reputable publication venues



TOP GUIDELINES
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Identify trusted publishers for your research

Through a range of **tools and practical resources**, this international, cross-sector initiative aims to **educate researchers, promote integrity**, and **build trust in credible research and publications**.

DOAJ DIRECTORY OF
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& Best Practice in Scholarly Publishing



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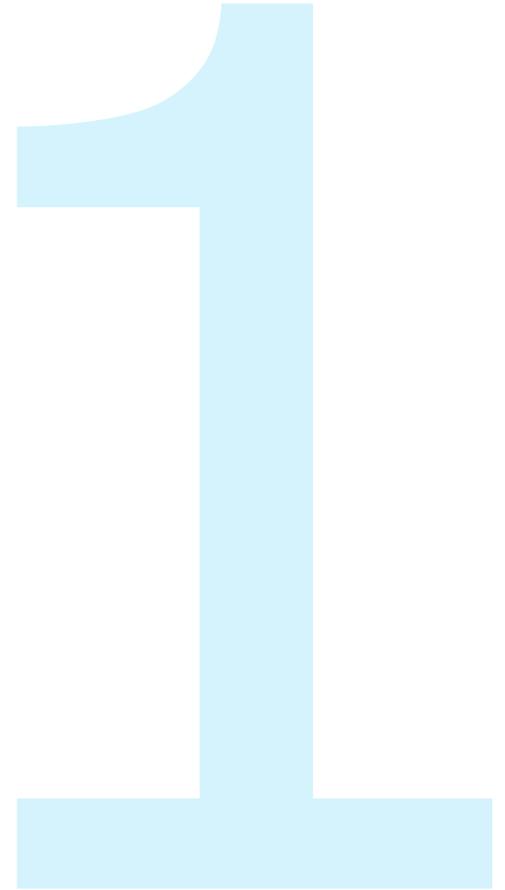
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 <p>A Journal's website, including the text that it contains, shall demonstrate that care has been taken to ensure high ethical and professional standards.</p> <p>It should:</p> <ul style="list-style-type: none"> - contain an 'Aims & Scope' statement and the readership clearly defined. - include a statement on what a journal will consider for publication including authorship criteria e.g. not multiple submissions, redundant publications) - ISSN's displayed clearly (separate for print and electronic). <p>It must not:</p> <ul style="list-style-type: none"> - contain information that might mislead readers or authors. - attempt to mimic another journal/publisher's site. 	 <p>The Journal name shall be unique. It must not:</p> <ul style="list-style-type: none"> - be one that is easily confused with another journal. - mislead potential authors and readers about the Journal's origin or association with other journals. 	 <p>Journal content must be clearly marked as whether peer reviewed or not. Peer review is defined as obtaining advice on individual manuscripts from reviewers expert in the field who are not part of the journal's editorial staff.</p> <p>The journal's website should:</p> <ul style="list-style-type: none"> - clearly describe this process, as well as any policies related to the journal's peer review procedures including the method of peer review used. <p>The journal's website should not:</p> <ul style="list-style-type: none"> - guarantee manuscript acceptance or very short peer review times. 	 <p>Information about the ownership and/or management of a journal shall be clearly indicated on the journal's website.</p> <p>Publishers should not:</p> <ul style="list-style-type: none"> - use organizational or journal names that would mislead potential authors and editors about the nature of the journal's owner. 	 <p>Publishers and editors shall take reasonable steps to identify and prevent the publication of papers where research misconduct has occurred.</p> <p>This includes but not limited to:</p> <ul style="list-style-type: none"> - plagiarism - citation - manipulation - data falsification/fabrication <p>In no case shall a journal or its editors encourage such misconduct, or knowingly allow such misconduct to take place. In the event that a journal's publisher or editors are made aware of any allegation of research misconduct relating to a published article in their journal, the publisher or editor shall follow COPE's guidelines (or equivalent).</p>	 <p>A journal should have policies on publishing ethics. These should be clearly visible on its website, and should refer to:</p> <ul style="list-style-type: none"> - journal policies on authorship and contributorship - how the journal will handle complaints and appeals - journal policies on conflicts of interest/competing interests - journal policies on data sharing and reproducibility - journal's policy on ethical oversight - journal's policy on intellectual property - journal's options for post-publication discussions and corrections. 	 <p>The periodicity at which a journal publishes shall be clearly indicated.</p>	 <p>The way(s) in which the journal and individual articles are available to readers and whether there are associated subscription or pay per view fees shall be stated.</p>
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- Add a Data Availability Statement to your publication/outputs
- Share your data through a disciplinary data repository or Zenodo
- If unable to share your data, deposit the metadata in a repository to increase its discoverability and make the data available on request.
- Where relevant, pre-register your research plan or publish a registered report
- Consider publishing your work as a preprint (Double-check with your chosen journal if preprints constitute prior publication)

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- Consider engaged research strategies, e.g. citizen science, to make your research more inclusive, accessible and impactful outside academia
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- Avail of Open Research training opportunities

Open Research Skills & Training



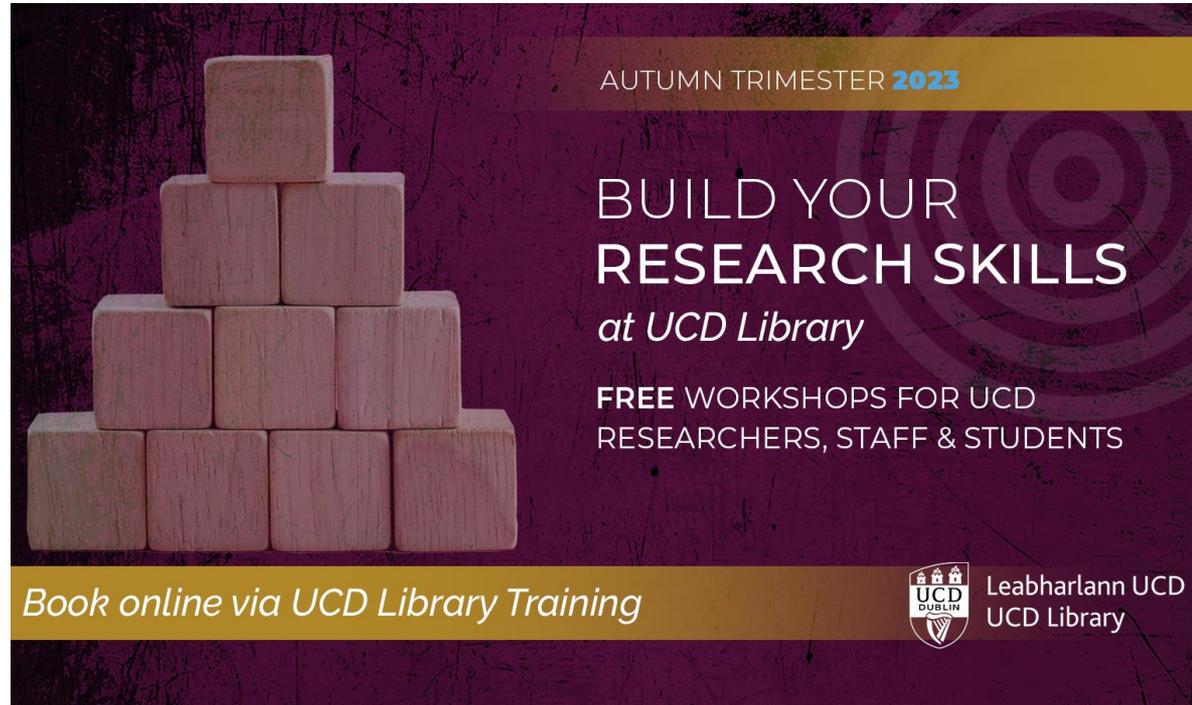
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Questions?

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