



NANYANG
TECHNOLOGICAL
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SINGAPORE

Open Access in Practice: The Adventures of NTU Library from Genesis to Present Time

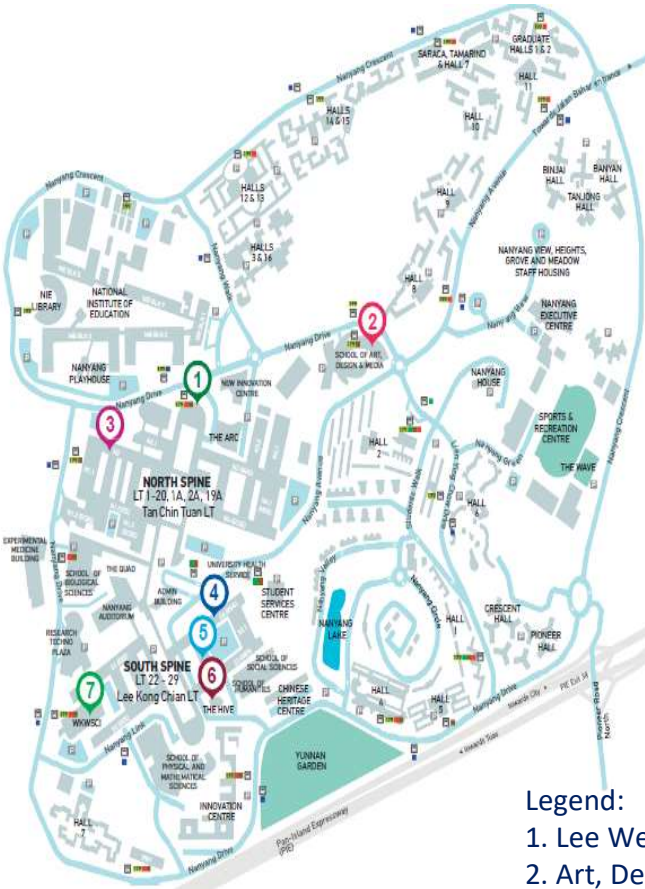
Caroline Pang
University Librarian

May 2024



Beautiful Campus

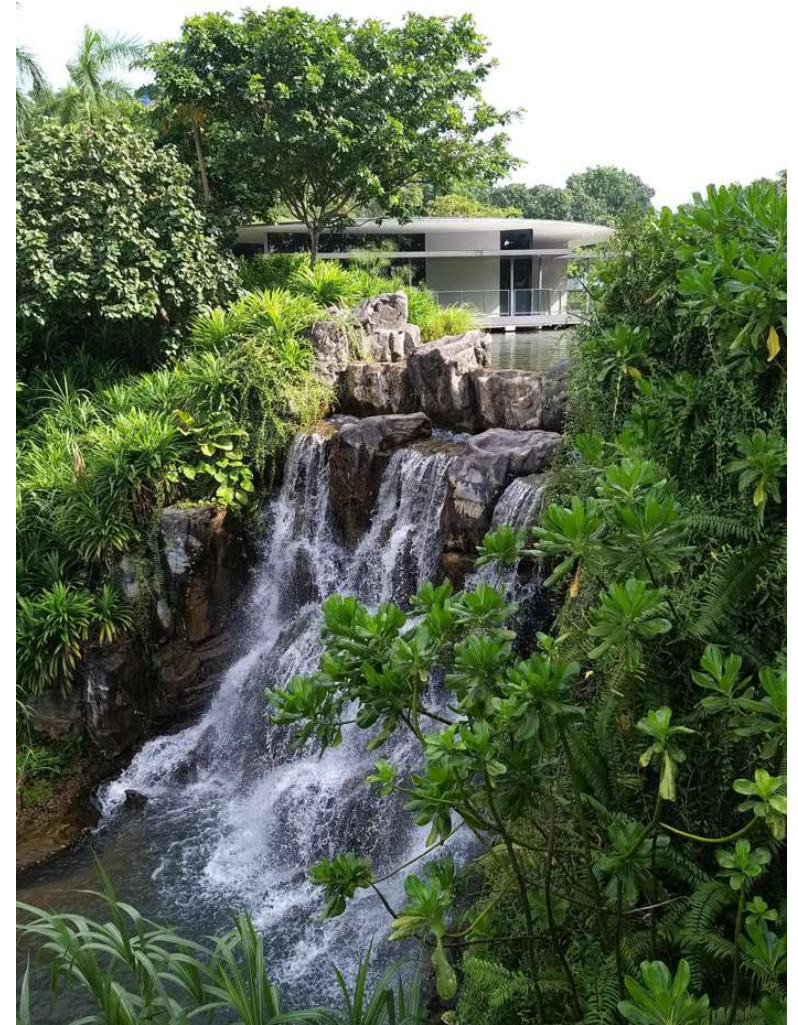
<https://www.ntu.edu.sg/>



Legend:

1. Lee Wee Nam Library (LWNL)
2. Art, Design & Media Library (ADML)
3. Business Library (BUSL)
4. Humanities & Social Sciences Library (HSSL)
5. Chinese Library (CHNL)
6. Library Outpost (LOP)
7. Communication & Information Library (CMIL)

Total Floor Area:
14,847 sqm



NANYANG TECHNOLOGICAL UNIVERSITY | SINGAPORE

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Spaces & Services Highlight

Hygge

- A dedicated wellbeing space at the Quiet Zone of Lee Wee Nam Library (Level 5) designed to encourage users to engage in reflection, contemplation and mental relaxation. HYGGE features the concept *Fascinature*, which combines elements of soft fascination and nature to facilitate mental rejuvenation.



TEMI Robot



<https://www.youtube.com/watch?v=QfurJhMUfe8>

In the beginning.....

INSTITUTIONAL REPOSITORIES

OPEN ACCESS MOVEMENT

- The term “open access” emerged in the 2000s through key statements:
 - **Budapest Open Access Initiative** (2002): Advocated for self-archiving and open access journals.
 - **Bethesda Statement on Open Access Publishing** (2003): Called for unrestricted online access to scholarly research.
 - [Berlin Declaration on Open Access to Knowledge](#) (2003): Focused on scholarly articles²³.

Other links:

[1\) History of open access - Wikipedia](#)

[2\) Timeline of the open-access movement - Wikipedia](#)

NTU Open Access Policy

- Library took initiative to draft the NTU OA Policy and endorsement was given by the University Library Committee in 2008
- 2011 – Announcement of NTU Open Access Mandate
- 2013 – Local funder A*STAR announced its open access requirement
- 2016 – Local funders National Research Foundation, Ministry Of Health, Ministry Of Education announced their open access requirements

NTU's Institutional Repository for papers: DR-NTU

MISSION

To capture, store, showcase, and disseminate the scholarly outputs of the University for **greater visibility** and **facilitates research collaboration**

DEPOSITS


- Journal articles
- Conference papers
- Books
- Book chapters
- Commentaries
- Campus-based publications
- Working papers
- Research reports
- Theses
- Student reports
- Audio recordings
- Video recordings



DR-NTU: <https://dr.ntu.edu.sg/>

Open Access Promotional Activities






 **NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE**

Open Science: WALKING THE TALK

15 August 2019
11:45 am – 2:30 pm
Lecture Theatre at The Arc
Learning Hub North (LHN-B1-15)


Open Science is a movement to extend the principles of openness to the whole research cycle. It aims to remove the barriers for sharing any kind of output, resources, methods or tools, at any stage of the research process.

Visiting Professor Daniel Ansari will be sharing his Open Science experiences during the seminar. Hear also from NTU professors on how they make use of the NTU repositories to achieve their Open Science goals.

PROGRAMME		GUEST SPEAKERS	
11:45 AM	Registration		Prof. Daniel Ansari Western University, Canada
12:00 PM	Welcome		
12:05 PM	Open Science – what is all the fuss about? • Prof. Daniel Ansari		Nanyang Asst. Prof. Suzy Styles School of Social Sciences, NTU
1:00 PM	Lunch		
1:30 PM	Using institutional repositories as part of the Open Science ecosystem • Nanyang Asst. Prof. Suzy Styles		Nanyang Asst. Prof. Gianluca Esposito School of Social Sciences, NTU
1:50 PM	Sharing, using and re-using data in social neuroscience • Nanyang Asst. Prof. Gianluca Esposito		

OPEN ACCESS WEEK 2020 : WEBINAR SERIES

OPEN DATA SHARING	OPEN SCHOLARSHIP
Tuesday, 20 October 2020 2:00 pm – 3:00 pm Zoom Webinar	Thursday, 22 October 2020 9:00 am – 10:30 am Zoom Webinar
Register at: bit.ly/NTUOA2020-Day1	Register at: bit.ly/NTUOA2020-Day2


DR-NTU (Digital Repository of NTU)

[Home](#)
[Communities & Collections](#)
[Research Papers](#)
[Theses](#)
[FYPs](#)
[Academic Profile](#)
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[Log In](#)

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[Export item record](#)

Please use this identifier to cite or link to this item: <https://hdl.handle.net/10356/105365>

Title: When does maluma/takete fail? two key failures and a meta-analysis suggest that phonology and phonotactics matter

Authors: Styles, Suzy J., Gawne, Lauren

Keywords: [Cross-cultural Perception](#)
[Cross-modal Congruence](#)
[Social sciences: Psychology](#)

Issue Date: 2017

Source: Styles, S. J., & Gawne, L. (2017). When Does Maluma/Takete Fail? Two Key Failures and a Meta-Analysis Suggest That Phonology and Phonotactics Matter. *i-Perception*, 8(4), 1-17. doi:10.1177/2041669517724807

Series/Report no.: i-Perception

Abstract: Eighty-seven years ago, Köhler reported that the majority of students picked the same answer in a quiz: Which novel word form ('maluma' or 'takete') went best with which abstract line drawing (one curved, one angular). Others have consistently shown the effect in a variety of contexts, with only one reported failure by Rogers and Ross. In the spirit of transparency, we report our own failure in the same journal. In our study, speakers of Syuba, from the Himalaya in Nepal, do not show a preference when matching word forms 'kiki' and 'bubu' to spiky versus curvy shapes. We conducted a meta-analysis of previous studies to investigate the relationship between pseudoword legality and task effects. Our combined analyses suggest a common source for both of the failures: 'wordiness' – We believe these tests fail when the test words do not behave according to the sound structure of the target language.

URI: <https://hdl.handle.net/10356/105365>

DOI: 10.1177/2041669517724807

Schools: [School of Social Sciences](#)

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SCOPUS™ Citations
52
Updated on Jul 18, 2023

Web of Science™ Citations
56
Updated on Jul 16, 2023

Page view(s)
311
Updated on Jul 21, 2023

Download(s)
70
Updated on Jul 21, 2023

Google Scholar™
Check


Altmetric

NTU's Institutional Repository for papers: DR-NTU

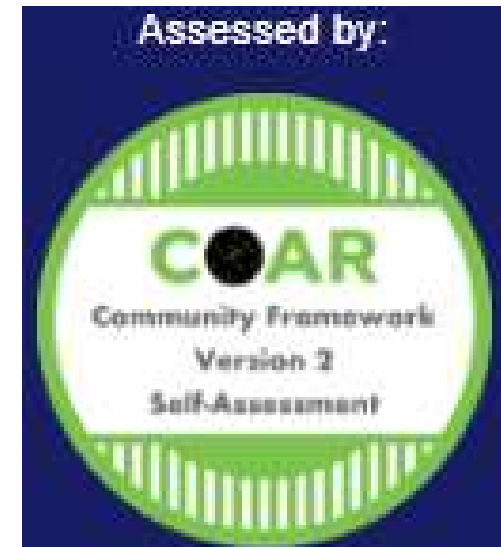
- Metadata records indexed in key academic research search engines e.g. Google Scholar
- Enriched records with impact metrics and indicators

DR-NTU: <https://dr.ntu.edu.sg/>

Milestones



June 2023:
10 million
downloads



COAR Community
Framework Self-
Assessment badge
granted in 2023

NEXT.....

OPEN DATA

NTU Research Data Policy Launched in 2016

- Library tasked by Research Integrity Committee to develop the first draft in 2014.
- Library referred to the research data policies of several other universities.
- Inputs from research/integrity offices were incorporated
- Timely as Singapore National Medical Research Council's announced data sharing requirements in 2015.



Co-Chair of NTU Research Integrity Committee presenting the NTU Research Data Policy in 2016.



University Librarian presenting the NTU DMP template during the Data Policy Launch event.

DR-NTU (Data) Launched in 2017

- NTU's institutional repository for open access research data sharing by NTU research data producers
- Dataverse, an open-source software maintained by Harvard
- Local installation in NTU



Launched by NTU President in 2017

Library's Roles & Responsibilities for RDM



open data
repository



data management
plan template



training and
advice

[NTU Research Data Policy. www.ntu.edu.sg/research/ntu-research-data-policy](http://www.ntu.edu.sg/research/ntu-research-data-policy)

Library Providing Data Management Planning Support Services



- DMP LibGuide provides question-level guidance
- Librarians conduct workshops
- Librarians provide consultation services
- Library works with Research Support Office to have the DMP template integrated in NTU research grant management system
- DMP submission is a prerequisite for research project budget account creation
- Library exports the DMPs to identify areas for improvement in DMP training

Institutional repository for research data: DR-NTU (Data)

MISSION

To curate, store, preserve, make available and enable the download of digital data generated by the NTU research community in various disciplines

DEPOSITS

Final, empirical data (e.g. tabular files, text files, images, scripts) underlying the research carried out at NTU and related data documentation

MILESTONES

- Inception (2017)
- NTU Research Data Policy (2016)
- NTU Data Management Plan (2016)
- CoreTrustSeal (2022)
- COAR Community Framework Badge (2023)



Indexed by:



Certified by:



Assessed by:



<input checked="" type="checkbox"/>		Dataverses (703)
<input checked="" type="checkbox"/>		Datasets (1,531)
<input type="checkbox"/>		Files (47,802)
Dataverse Category		
		Researcher (413)
		Research Project (130)
		Department (87)
		Laboratory (23)
		Research Group (17)

(as on 22 Jul 2023)

DR-NTU (Data): <https://researchdata.ntu.edu.sg/>

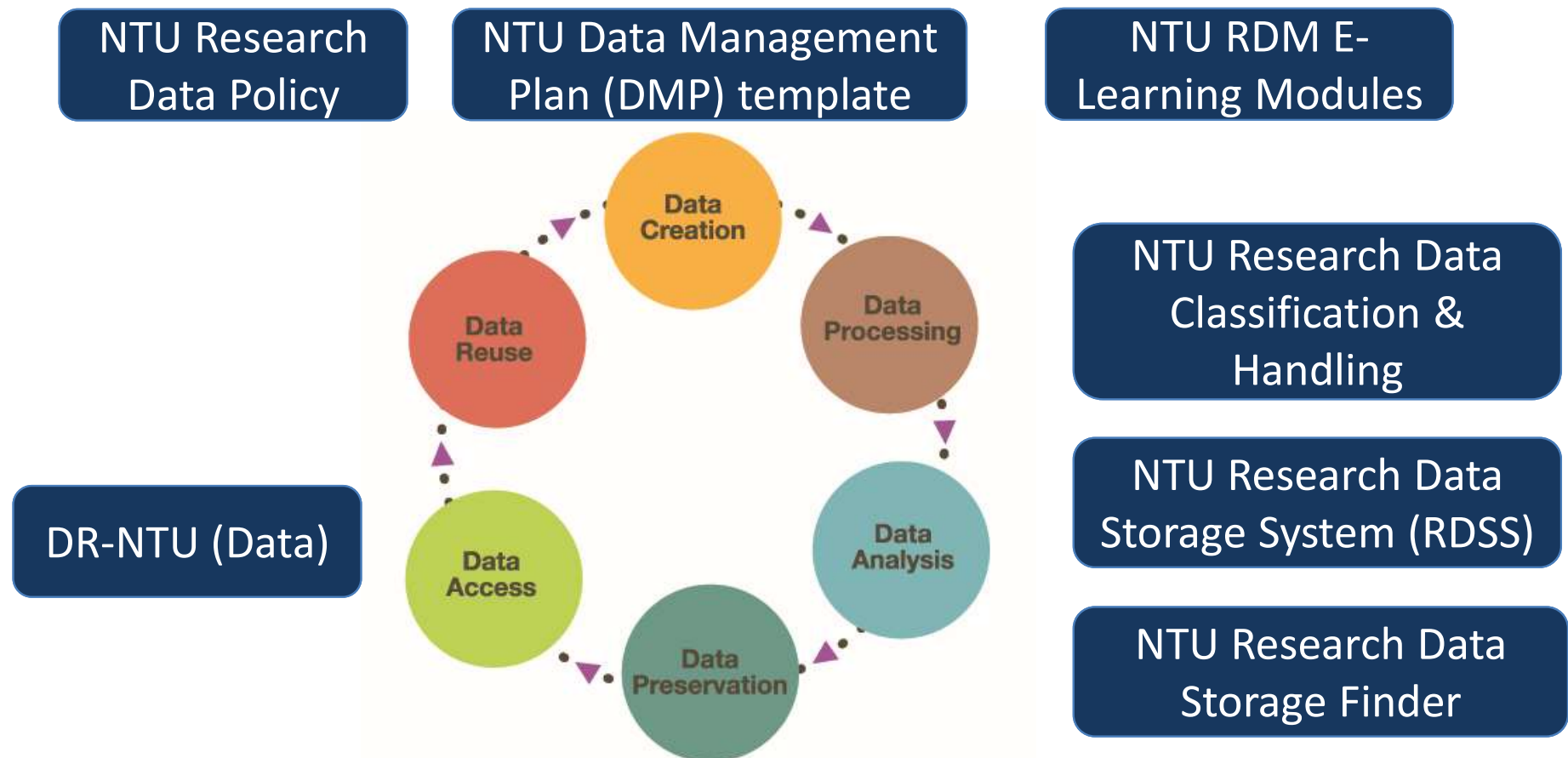
NTU Research Data Management Group

- Formed in 2017 after the University formed the new Research Integrity and Ethics Office
- Comprises:
 - Research Support Office
 - Research Integrity and Ethics Office
 - Library
- Fortnightly meetings to discuss RDM matters and initiatives



NTU Research Data Management Initiatives

(where NTU Library was an important driving force)



RDM Training Provided by NTU Library

DMP
workshops

RDM E-
Learning
Modules

DR-NTU &
DR-NTU
(Data)
Workshops

Budgeting
for RDM
Workshop

Open
Research &
Research
Visibility

NIH to Launch Data Management and Sharing Plan to Help Promote Open Science



1/11/2023

On January 25, 2023, NIH's new Policy for Data Management and Sharing (DMS Policy) will go into effect for most competing funding applications and intramural research protocols, requiring researchers to submit a DMS Plan with their application for funding outlining how they will share and manage data, as well as complying with the approved plan. This Policy conforms to the 2022 OSTP public access guidance and is part of NIH's broader efforts to accelerate biomedical research by making the outputs of NIH-funded research available for validation of research results and reuse in future research. Additional information about the Policy is available at the agency URL below, including a template, examples, and guidance for writing a DMS Plan, information on repositories for sharing and accessing NIH-funded data, budgeting for data management and sharing, and more.

More information: <https://sharing.nih.gov/>

Finally.....

OPEN SCIENCE

Open Science & Research Services Team

(since Aug 2021)

Open
Science

Research Visibility
& Impact

Research Data
Management

Lead, Open
Science

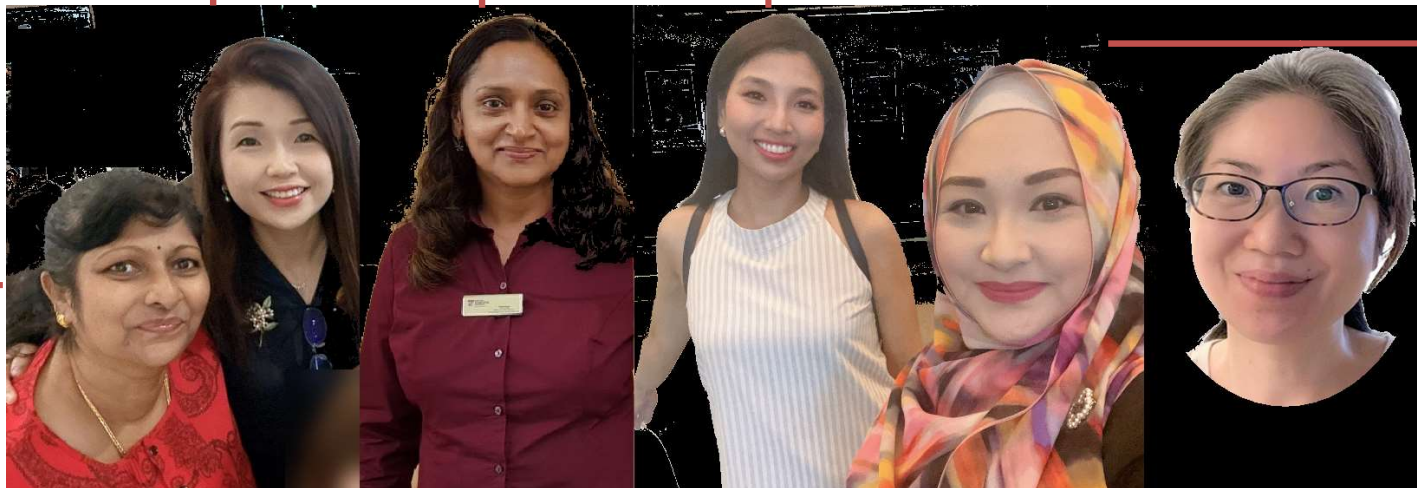
Open Access Publishing
Support, APCs

Data Management Planning,
Research Data Management Education

Persistent
Identifiers

Research
Visibility &
Impact, ORCID,
Researcher &
Journal Metrics

Citation
Reports



Kala

Su Nee

Padma

Meryl

Yasmin

Mei

Open Research Workshops

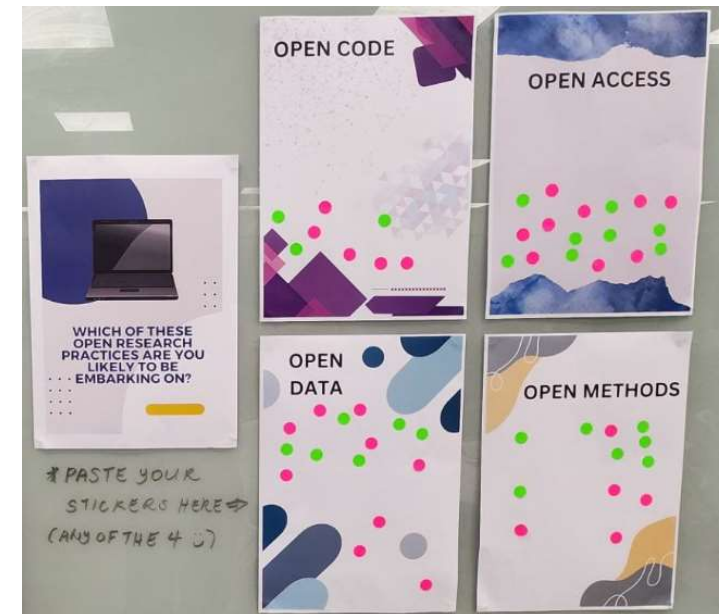


Discussion topics:

“As open as possible, as closed as necessary”

“Copyright and open research”

“Findable, Accessible, Interoperable & Reusable data”



Workshop participants asked to vote for their open research checklist priorities.

<https://blogs.ntu.edu.sg/ntulibrary/tag/open-science/>



SINGAPORE OPEN RESEARCH CONFERENCE 2022



With UNESCO, OECD, EC and US funders pushing for Open Science/Research, we can no longer afford to wait and see.

Open Research practices, coupled with accessible and verifiable scientific knowledge, help to improve quality, reproducibility and impact of science.

Join us in this inaugural Open Research Conference which will discuss perspectives from funders, research managers, and researchers on Open Research policies, governance, practice, and ethics.

Though some of the discussions could be based on the bioscience field, researchers from other subject fields are most welcome!



Date: 2 November 2022
Time: 9.00 am – 6.00 pm (Singapore)
Format: In person
Venue: NTU Novena Campus – HQ
Lecture Theatre

Organisers:

- NTU Research Integrity and Ethics Office
- NTU Library
- Lee Kong Chian School of Medicine

ACCELERATING RESEARCH WITH RESPONSIBLE OPEN SCIENCE

Guest of Honour:



Prof LING San
NTU Deputy President and Provost
President's Chair in Mathematical Sciences

Speakers include:



Dr Lenny TEYTELMAN
CEO and co-founder of protocols.io



Prof Ginny BARBOUR
Director of Open Access Australasia,
and Co-Lead, Office for Scholarly
Communications, Queensland
University of Technology, Australia

To register:

<https://bit.ly/NTUsgOR2022>



#NTUsgOpenResearch



Keynote by:

- Prof Ling San, NTU Deputy President and Provost

Organised by:

- NTU Research Integrity and Ethics Office
- NTU Library
- NTU Lee Kong Chian School of Medicine

Attended by:

- Close to 150 representatives from local universities, research institutions, funders and publishers

NTU OPEN RESEARCH AWARDS 2022

CALL FOR NOMINATIONS

The NTU Open Research Awards recognise and reward NTU researchers who have used open research to make their scientific contents, tools and processes more open, accessible, transparent and reproducible, or incorporated it in their teaching practices.

All NTU principal investigators, post-doc research staff, PhD students and research teams are invited to self-nominate or nominate their NTU colleagues for the inaugural NTU Open Research Awards 2022.



Nominations close on
19 September 2022.

<https://bit.ly/nominateOR22>

Prizes:

- S\$1,500 cash for each Team Award winner
- S\$500 cash for each Individual Award winner

Awardees will receive their prizes and share their open research use cases during the Singapore Open Research Conference on 2 November 2022.

Prize Sponsors:

- Lee Kong Chian School of Medicine
- Research Support Office

Organised by:

NTU Library

Office of Information, Knowledge and Library Services

www.ntu.edu.sg/library    NTUsgLibrary #NTUsgLibrary

To **RECOGNISE** and **REWARD** NTU researchers who have used open research to make their scientific contents, tools and process more open, accessible, transparent and reproducible, or incorporated it in their teaching practices.

Cash prizes sponsored by:

- Lee Kong Chian School of Medicine
- Research Support Office

<https://libguides.ntu.edu.sg/NTUopenresearchawards>

NTU Open Research Awards 2022 Individual Winner

Nanyang Asst Prof Suzy Styles
Psychology, School of Social Sciences



As researchers, our goal is to communicate what we know and how we arrive at our conclusions. But scientific communication is changing – peer reviewed journal articles are no longer enough. New publication types allow us to store and share the processes and products of research, from preregistrations and preprints, to data, code, and fully accessible research tools. By sharing widely, we create transparent, replicable, reproducible workflows. New media allows us to communicate with a broad range of audiences. By discussing our work in news and social media, we extend the reach of our expertise. And by sharing our educational resources, we can help each other train generations to come. We need to recognise Open Research as a powerful pathway to impact.

OPEN RESEARCH TOOLS



https://padlet.com/suzystyles/SUPLab_OA_Tools

OPEN EDUCATIONAL RESOURCES



<https://padlet.com/suzystyles/oea>

OPEN RESEARCH DATA



<https://researchdata.ntu.edu.sg/dataset/suzystyles>

OPEN METHOD: PREREGISTRATIONS



https://bit.ly/Suzy_Preregistration

An initiative by:

NTU Library

Office of Information, Knowledge and Library Services

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Follow our tweets at

[#NTUsgOpenResearch](#)

NTU Open Research Awards 2022 Team Winner



Volcanic Hazards and Risk Group
Asian School of the Environment

Assoc Prof Susanna Jenkins, Vanesa Burgos, Elinor Meredith, Elly Tennant,
Dr Andrea Verolino, Dr Qingyuan Yang, Dr Sébastien Blass, Dr George Williams,
Dr Josh Hayes, Dr Geoff Lerner, Imantha Gunasekera, Dr Magfirah Syarifuddin

The Volcanic Hazards And Risk Group at the Asian School of the Environment/Earth Observatory of Singapore aims to reduce the risk that volcanic activity poses to society. We are particularly passionate about making sure that our research and research outputs are *useful, usable and used*. We publish all our research, data and documentation openly and provide all our code as open source. Many of the regions exposed to volcanic hazards, particularly in South-East Asia, are in areas that may not have access to paywalled publication, data or software. By publishing openly access, we provide hazard and risk practitioners, scientists and communities with the data, documentation, software and research to support disaster risk reduction and save lives.

OPEN DATA



<https://researchdata.ntu.edu.sg/dataset/vh-risks>

REPLICATION DATA FOR JOURNAL PAPER



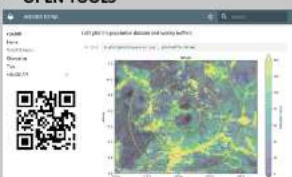
<https://doi.org/10.21979/VH-RISK>

OPEN CODE & REUSE OF OPEN DATA

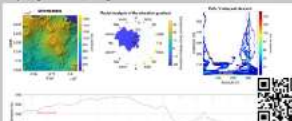


<https://github.com/vh-risks>

OPEN TOOLS



<https://github.com/vh-risks/VolcRIS>



<https://github.com/vh-risks/FlowDIR>

OPEN DOCUMENTATION & TUTORIALS



<https://github.com/vh-risks/VH-RISK-Documentation>

An initiative by:

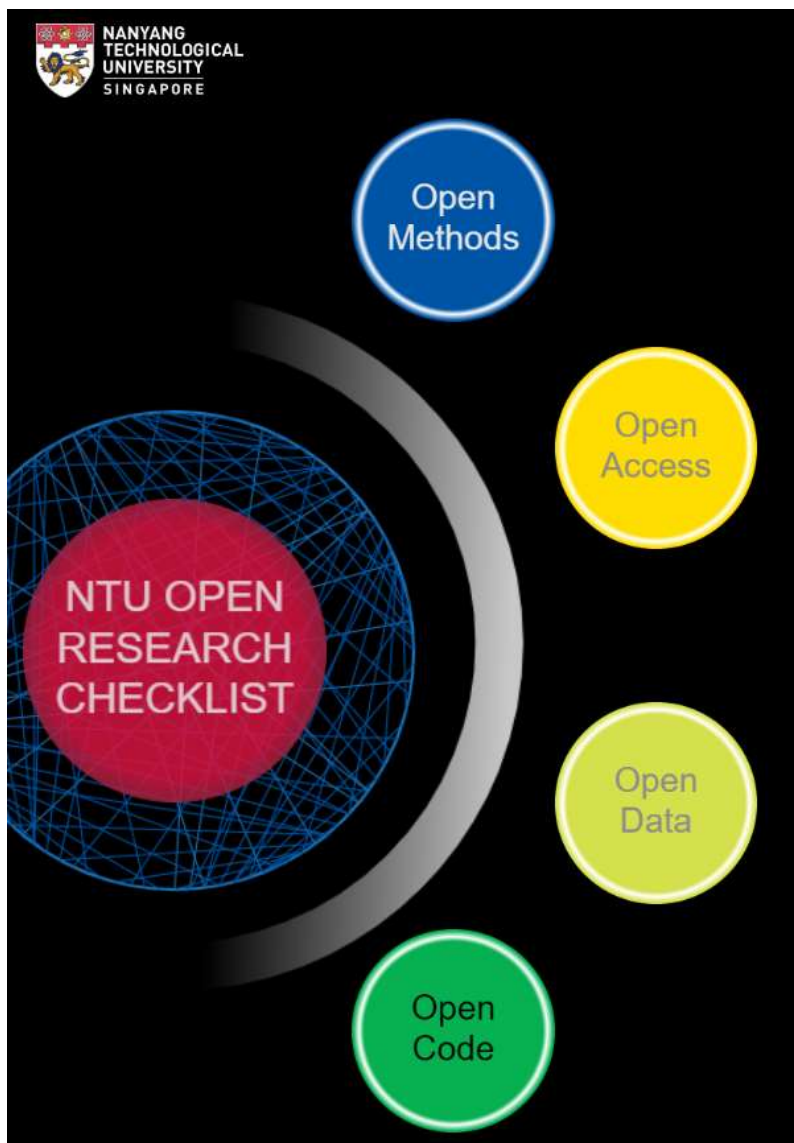
NTU Library

Office of Information, Knowledge and Library Services

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[#NTUsgOpenResearch](#)



The NTU Open Research Checklist

A **GUIDE** for NTU researchers who wish to make practical changes in order to make their scientific process and research outputs more transparent, inclusive and accessible.

Checklist consists of a series of questions and suggestions.



<https://bit.ly/NTUORcheck>

U. S. White House Office of Science and Technology Policy (OSTP) launches Year of Open Science in 2023*

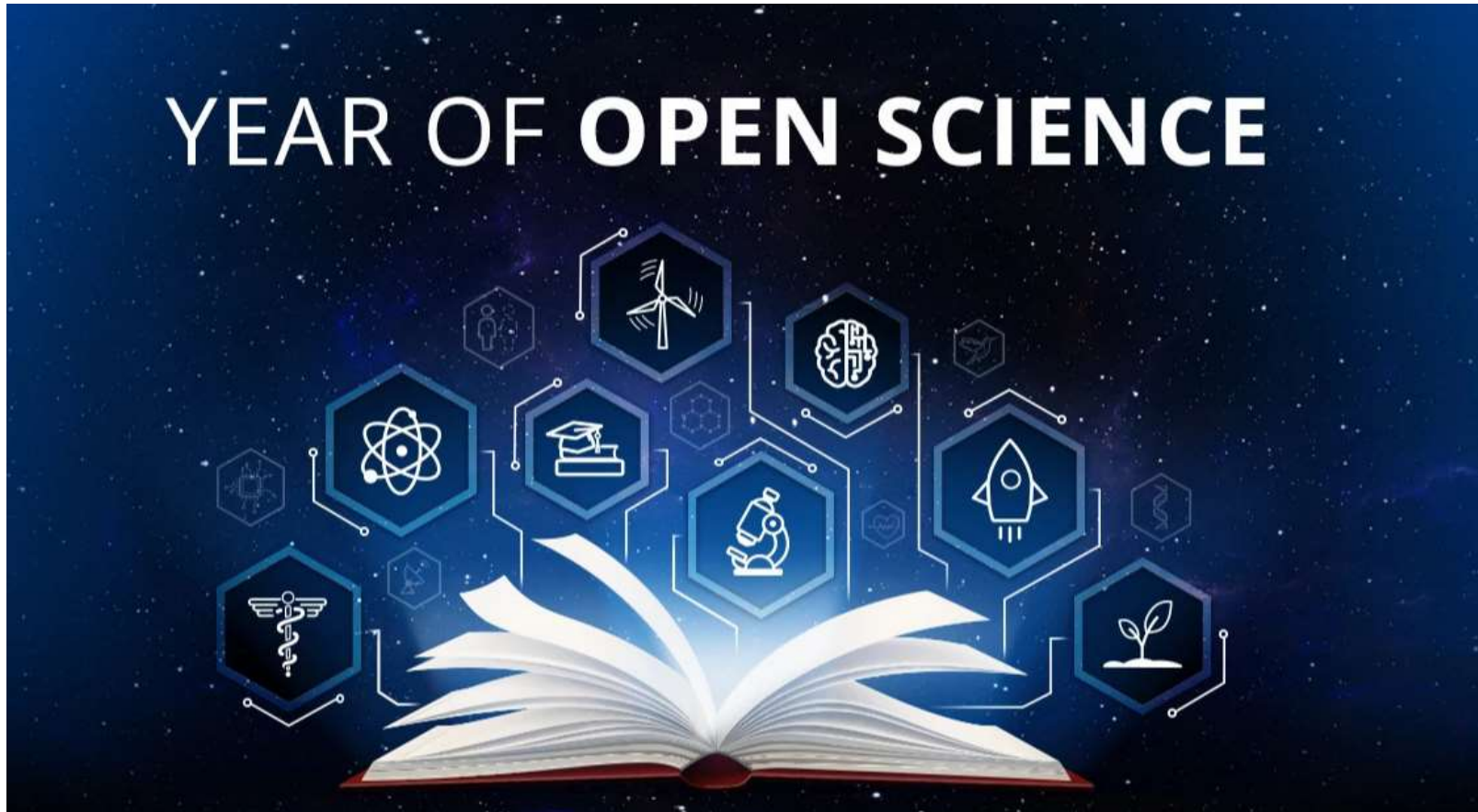


Image credit: [U.S. National Science Foundation](https://www.nsf.gov/)

*<https://www.whitehouse.gov/ostp/news-updates/2023/01/11/fact-sheet-biden-harris-administration-announces-new-actions-to-advance-open-and-equitable-research/>

Singapore Open Research Conference 11-12 Nov 2024



NUS
Libraries



Libraries



LIBRARY



<https://bit.ly/SORC2024>

Some food for thought.....

THE FUTURE

6 Principles of Open Science

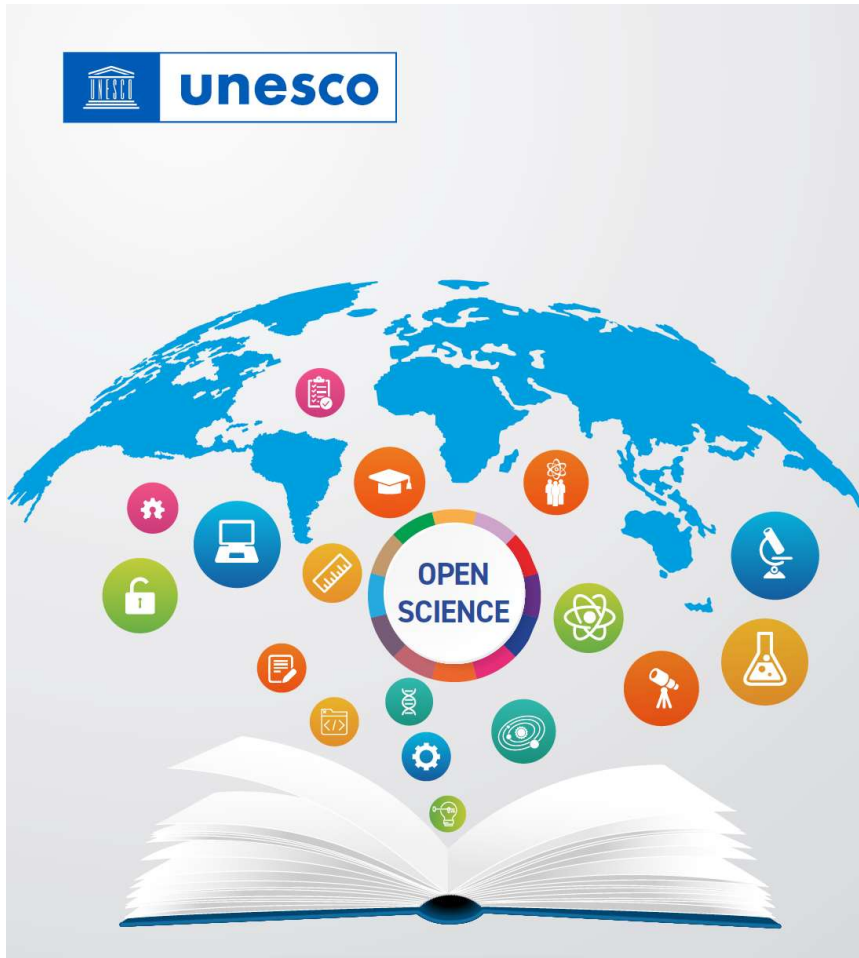
- Open Data
- Open Source
- Open Access
- Open Methodology
- Open Peer Review
- Open Educational Resources



CC-BY Danny Kingsley & Sarah Brown



[The Replication Crisis in Psychology | Noba \(nobaproject.com\)](https://nobaproject.com/)



OPEN SCIENTIFIC KNOWLEDGE

1. Scientific **PUBLICATIONS**
2. Open research **DATA**
3. Open **EDUCATIONAL RESOURCES**
4. Open-source **SOFTWARE** and source **CODE**
5. Open **HARDWARE**

Reference: <https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en>

Open does not mean 'uncontrolled'

Access to scientific knowledge should be as open as possible. Open licensing systems allow users to give credit and use knowledge according to guidelines.

There are certain conditions where the release of data or knowledge would threaten, *inter alia*, human rights, security, personal privacy, sacred and secret indigenous knowledge, rare or threatened species. In such cases, it may still be possible to share the existence of such information or share it among certain users who meet defined access criteria.

Open does not mean 'cost-free'

There are real costs involved in creating, using and sharing scientific knowledge. The Recommendation calls for countries to create supportive frameworks for open science and to invest in the people, processes and values that form the systems of open science.

Creating equitable and fair open science also means reducing the digital, technological and knowledge gaps that exist between and within countries and regions.

What keeps Caroline awake at night...

- Do we really need institutional repositories? What functions do they serve now?
- Transformative agreements/open access publishing agreements/Read & Publish agreements are business models that we need to understand. APCs are free for our users but there are real costs. Understanding the business model is essential for financial sustainability.
- What are the drivers of research visibility and impact? Are the most visible form of this university rankings? Does the library have a role to play?

OA, AI, and DEI—Triple Advantage or Triple Threat? | Periodicals Price Survey 2024

by [Siôn Romaine](#), [Barbara Albee](#), [Cynthia M. Elliott](#), and [Stephen Bosch](#)
Apr 22, 2024 | Filed in [News](#)



Where will the OA, AI, and DEI trifecta take us next?

Since the Great Recession, librarians have learned as best they can to manage an annual serials subscription model that inevitably outpaced flat or declining collection budgets. Many librarians lauded the development of Open Access (OA) publishing models, which offered, at least initially, to help solve the problem of an unsustainable and inequitable scholarly

[OA, AI, and DEI—Triple Advantage or Triple Threat? | Periodicals Price Survey 2024 | Library Journal](#)

other price bands. Although there were increases in the metrics for impact factor and Eigenfactor, the increases were not comparable to the increase in price. The average price (\$10,177) for the most expensive journals was 34 times higher than the average price for the least expensive journals (\$287), while the impact factor only increased 56 percent. The chart accompanying Table 9 shows how the rise in average price (represented by the blue line) is not accompanied by a corresponding rise in impact factor (represented by the burgundy line). We

THANK YOU

Email: CarolinePang@ntu.edu.sg