

LIBRARY

RESEARCH DATA MANAGEMENT FOR HIE HDR STUDENTS

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Research data management

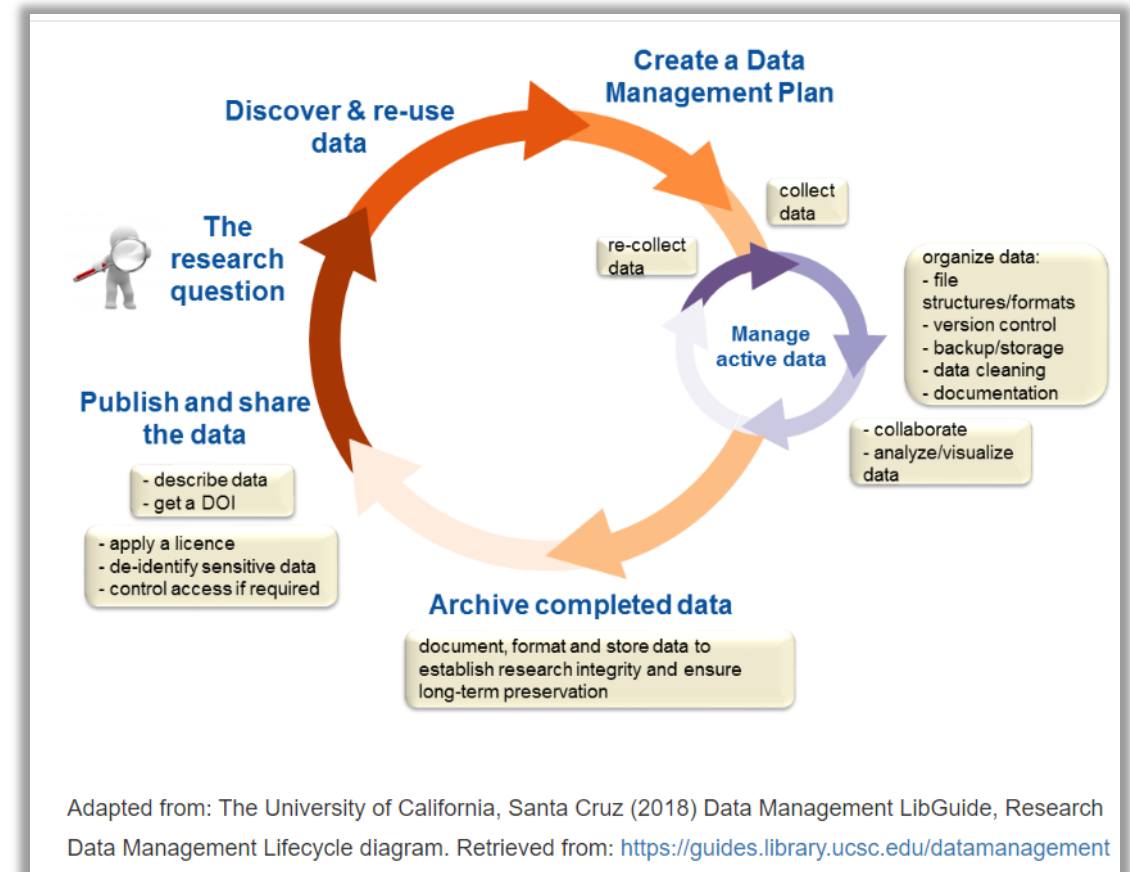
HDR students

- What is research data?
- Make research data FAIR
- Publish research data for compliance
- Publish research data for social benefit
- Research Data Management Lifecycle
- Concept to publication
- Creating a RDMP
- HIE specifics for Working Data (Alf)
- Library topics (Kaysha)

What is Research data?

The evidence that validates research findings

- All hard copy material generated during research
- All digital material on which research findings, interpretations and/or observations may rely
- Outlined in the ethics approval
- The future use of research data should be considered at all stages of the research lifecycle



Make research data FAIR

Global benefits

Making research data more **Findable**, **Accessible**, **Interoperable** and **Reusable** (FAIR) provides a range of benefits to researchers, research communities, research infrastructure facilities and research organisations alike.

- Democratises access to information
- Maximum potential from existing data assets
- Maximum impact from research
- Greater reproducibility and reliability of research
- New research questions to be answered



Australian Research Data Commons

FAIR data



Research Data Management Lifecycle

Why publish data for policy compliance?

Compliance with policy

Open Access to Research Policy

"Maximise the integrity and impact of research by ensuring that all of the products and outputs of research, including publications and research data, have been appropriately archived; and openly available in ResearchDirect for re-use and citation wherever possible."

Research Data Management Policy

Researchers and HDR Candidates, in consultation with supervisors, must:

Develop a research data management plan at the beginning of their research project to ensure a robust data management framework is in place prior to starting research at the University. It can begin as a basic plan and further information can be added as the project progresses;

Ensure the research data management plan describes how research data will be managed throughout the research project

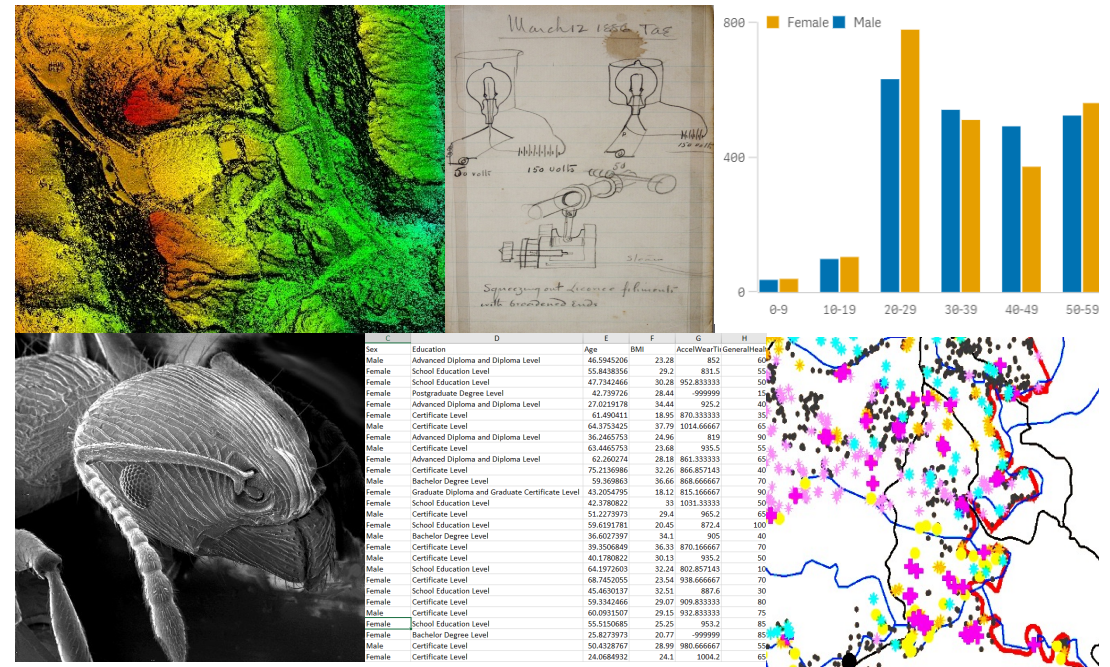
Ensure they understand and are aware of their legal, contractual, and legislative obligations around the use of data in research activity and Research Integrity and Ethics

Research Data Management Lifecycle

Why publish data for social benefit?

Benefits to researcher, institution and society

- Research community best practice
- Improved efficiency and reduced costs
- Reduced duplication
- Reduced participant fatigue
- Higher discoverability
- Higher citation rate
- Higher researcher profile
- Future collaboration opportunities



Research Data Management Lifecycle

From concept to publication

Five stages of research data

Plan your data collection

Complete ethics approval

Complete your Research Data Management Plan

Detail what, how, when, where and why

Detail privacy considerations and storage

Search for previous datasets

Plan for future data reuse

Describe fields consistently

Research Data Management Lifecycle

From concept to publication

Five stages of research data

Plan your data collection

Store the working data

Store the data securely

OneDrive or cloud storage or HIE options (later)

Keep physical copies secure

Try to use non-proprietary file formats

Establish naming conventions

Back up and digitise as required

Research Data Management Lifecycle

From concept to publication

Five stages of research data

Plan your data collection

Revisit ethics approval

Participant information or permissions

Store the working data

What data can be shared?

Describe data for reuse

Archive data permanently

Library will arrange a permanent archive location

Library will assign the dataset a unique DOI

Research Data Management Lifecycle

From concept to publication

Five stages of research data

Plan your data collection

Store the working data

Archive data permanently

Publish your archived data

Publish either raw data or a record-only

Connect the DOI to your ORCID profile

Promote the publication on social media

Receive enquiries from future researchers

Future collaboration opportunities

Increase research profile

More research outputs to include on applications



Research Data Management Lifecycle

From concept to publication

Five stages of research data

Plan your data collection

Store the working data

Archive data permanently

Publish your archived data

Reuse existing data

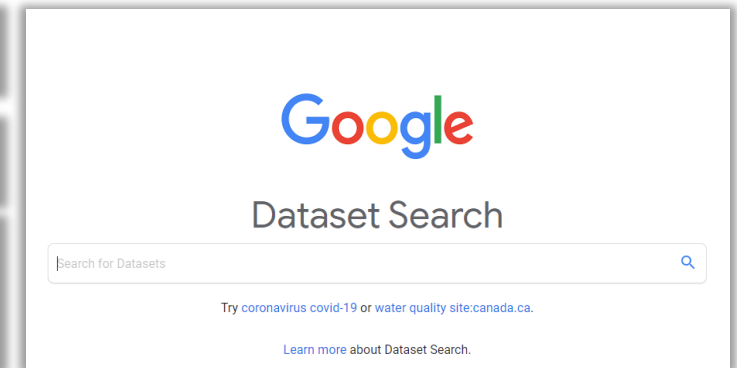
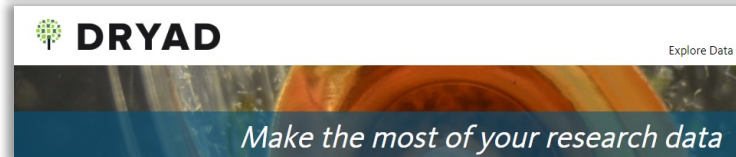
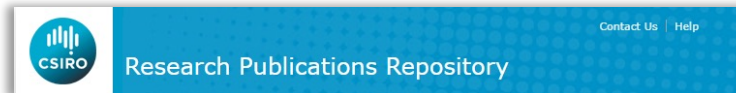
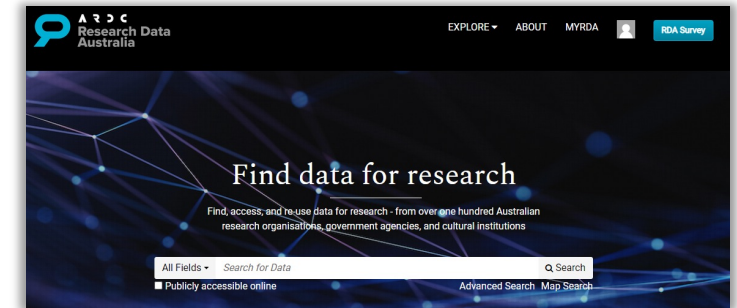
Data is discoverable in Research Data Australia database

Directs user to WSU repository

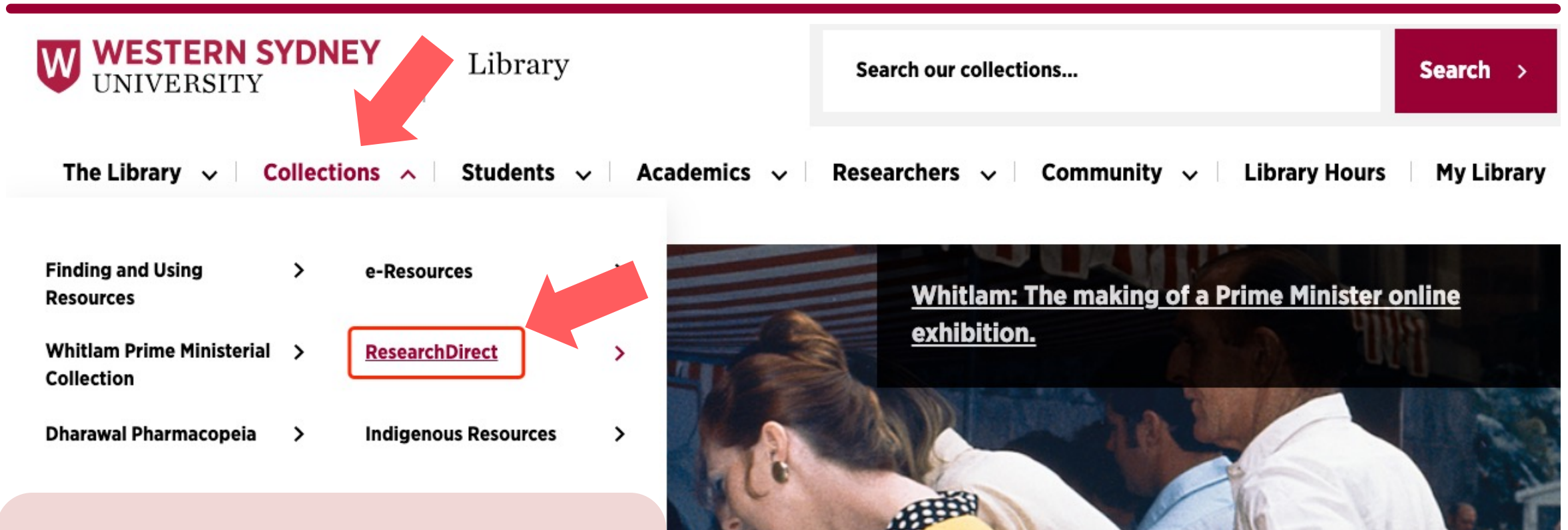
Directions to contact researcher

Builds researcher profile

Encourages collaboration



Where do I create my DMP?



WESTERN SYDNEY UNIVERSITY Library

Search our collections... **Search** >

The Library ▾ | **Collections** ▲ | Students ▾ | Academics ▾ | Researchers ▾ | Community ▾ | Library Hours | My Library

Finding and Using Resources > e-Resources

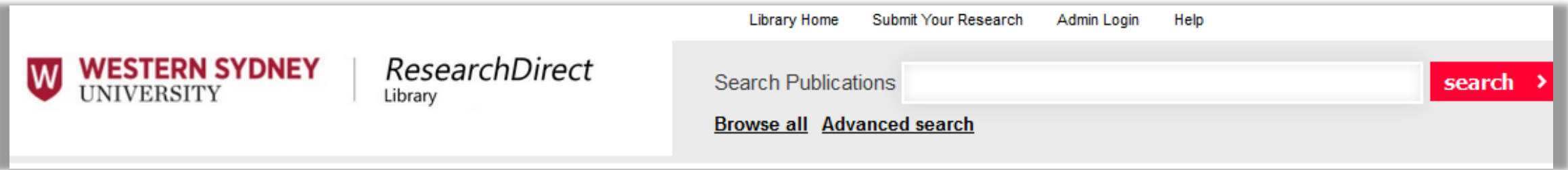
Whitlam Prime Ministerial Collection > **ResearchDirect** >

Dharawal Pharmacopeia > Indigenous Resources >


Whitlam: The making of a Prime Minister online exhibition.

- On the library website.
- Locate **Collections** drop down menu.
- Select **ResearchDirect**.

Where do I create my RDMP ?



Library Home Submit Your Research Admin Login Help

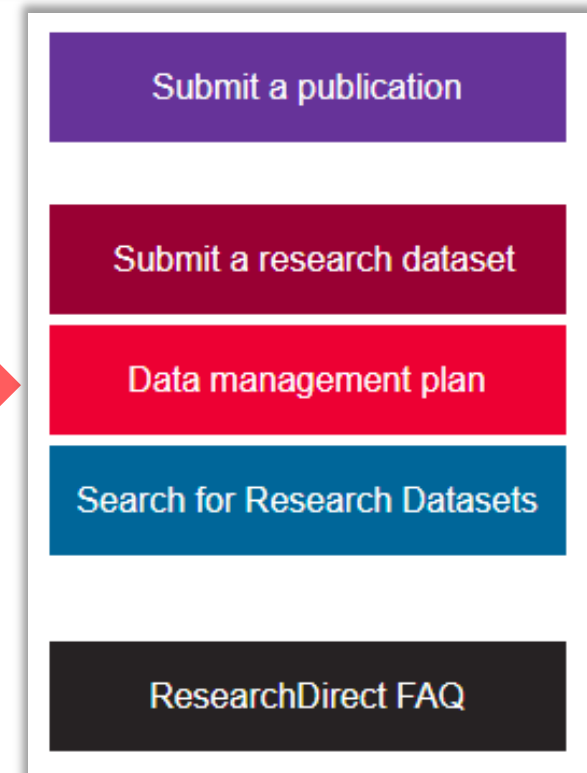
 **WESTERN SYDNEY**
UNIVERSITY

ResearchDirect
Library

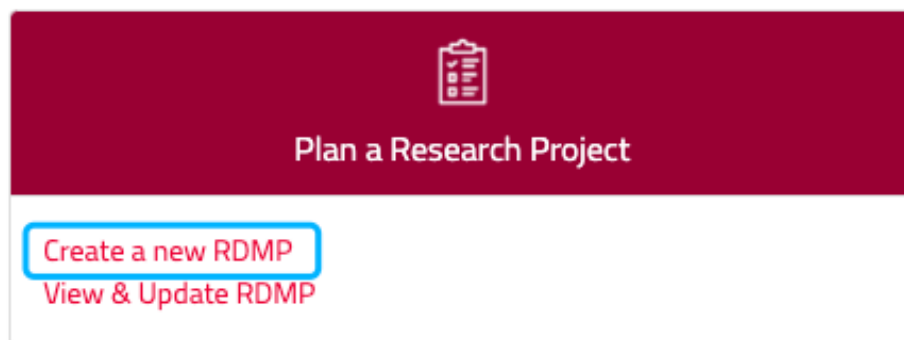
Search Publications **search** >


[Browse all](#) [Advanced search](#)

- On the **ResearchDirect** homepage.
- Click the **Data management plan** button to access the **Researcher Dashboard**.
- Select **Create a new RDMP**.



- Submit a publication
- Submit a research dataset
- Data management plan**
- Search for Research Datasets
- ResearchDirect FAQ




Plan a Research Project

Create a new RDMP
View & Update RDMP

Where do I create my RDMP ?

Researcher name not available to select

People

Principal Investigator (*) ⓘ

Title Name Email

Select a valid value

Name is required

Data Creator (*) ⓘ

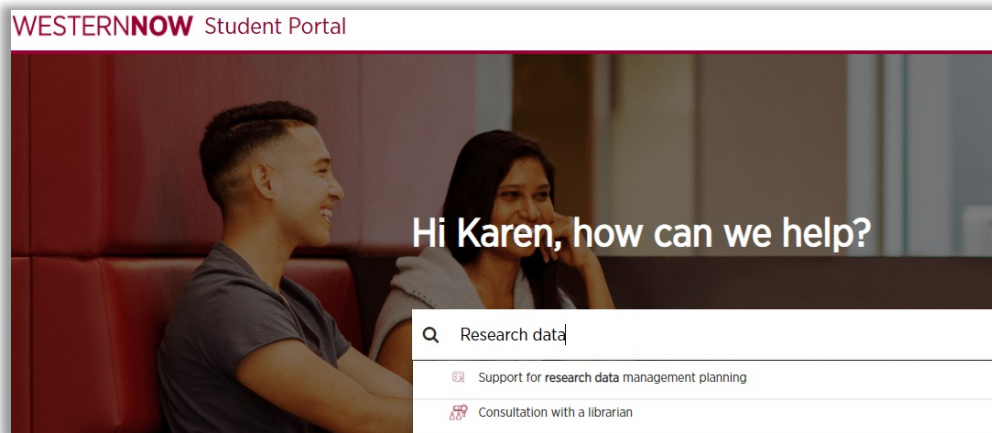
Introduction

Project overview

People

Data

Data storage



If your name doesn't appear in this field drop down list, use the Research Data Management Planning form in WesternNow to contact the Library.

Library guide: Research Data Management



Library

Find in our collections...

Find >

[Library e-Resources](#) / [LibGuides](#) / [Research Data Management](#) / [Research Data at Western Sydney](#)

Research Data Management

Research Data at Western Sydney

About Research Data Management

Publishing Research Data

Data Citation

Collecting Data

Sourcing Research Data

Data Literacy

Data Management Resources

- **Researcher Dashboard**

Create a shareable Research Data Management Plan (RDMP) which complies with the University's RDM Policy

Use the 'Create Archival Data Record' option to create a detailed description of your completed dataset. You can then choose whether to submit this for further curation and eventual inclusion in ResearchDirect and Research Data Australia (using the Publish and Share option).

Research Data Management at Western Sydney University

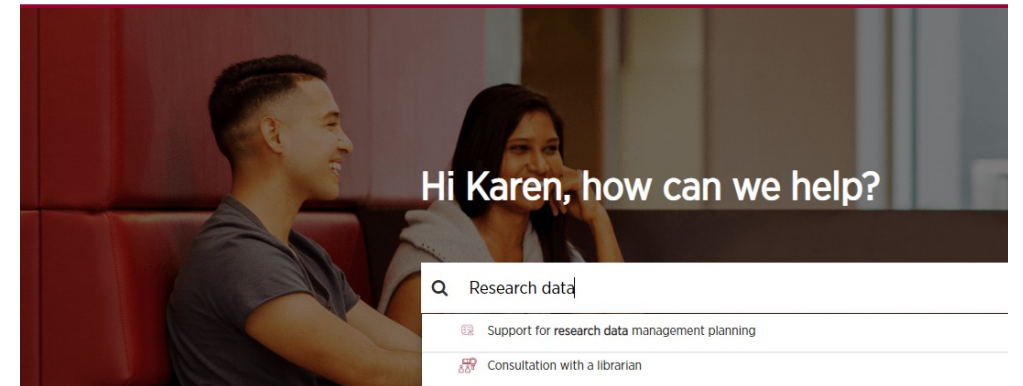
Managing your research data is an important task which should be planned from the beginning of any research project.

<https://subjectguides.library.westernsydney.edu.au/rdm>

Actions after today

- Complete your Research Data Management Plan
- Revisit your ethics approval
- Detail privacy considerations
- Plan for future data reuse
- Search for previous datasets
- Contact Library

WESTERNNOW Student Portal



Data publishing scenario

You have a research project with accompanying data that can be published openly

Revisit your Data Management Plan and ethics approval

Contact the Library using the WesternNow for **Support for Research Data Management planning**

Provide the dataset or link to location

Library and IT or HIE DM will provide a permanent archive location

Library will create a record and assign your dataset a DOI

Library will publish to Research Direct repository, indexed by Research Data Australia

Add the DOI to your ORCID profile and promote via your channels

Future researchers can access the data without restriction

Citations increase



Data publishing scenario

You have a research project with sensitive (or controlled) data

Revisit your Data Management Plan and ethics approval

Contact the Library using the WesternNow for “Support for Research Data planning”

Provide the dataset or link to location

Library and IT or HIE DM will provide a permanent archive location

Library will create a record and assign your dataset a DOI

Library will publish **a metadata record only** to Research Direct repository

Add the DOI to your ORCID profile and promote via your channels

Future researchers will contact you to discuss or gain access to the data

Citations increase



HIE Options for Data Storage

You have lots of options for storing working data!

Project/Lab hard-drives

OneDrive, CloudStor

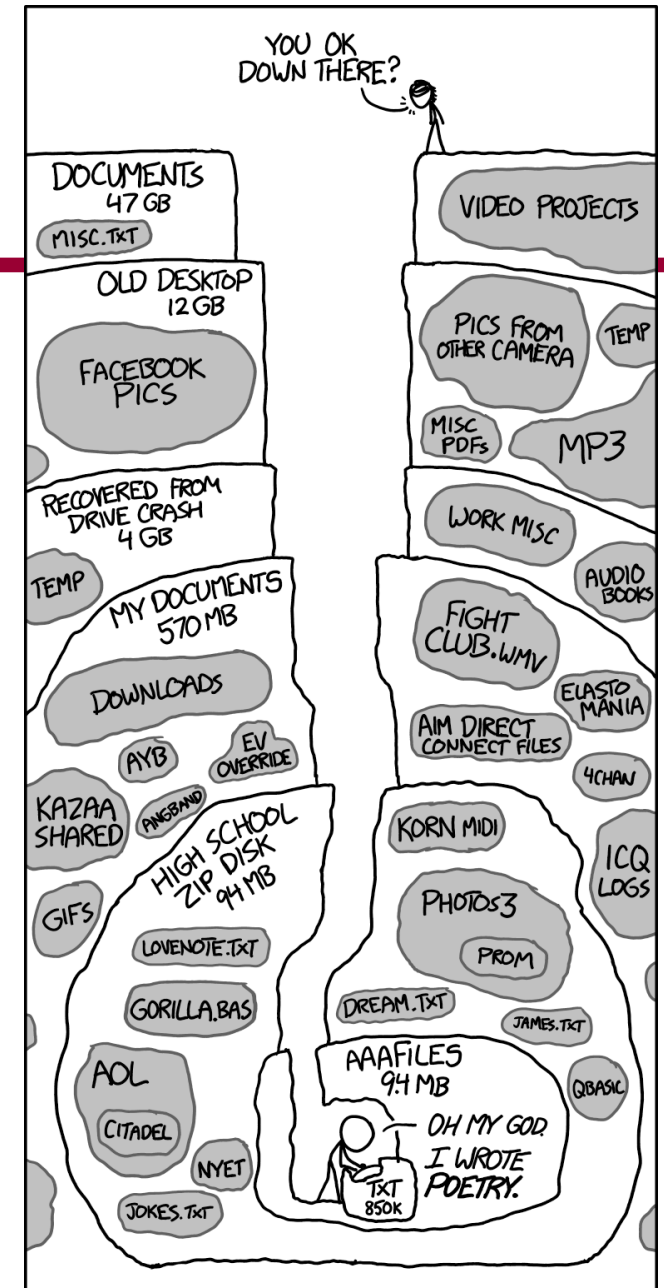
Network Folders, HIE-Storage

NextCloud, dropbox, Google Drive, ...

Specialist repositories: HIEv and friends.

Everything I will talk about is (mostly) described at...

<http://hie-dm.westernsydney.edu.au/>



HIE Options for Data Storage

Project and Lab Hard Drives

- They have a place!
- Please get the data onto managed backed up storage as soon as you can
- 3-2-1 backup strategy

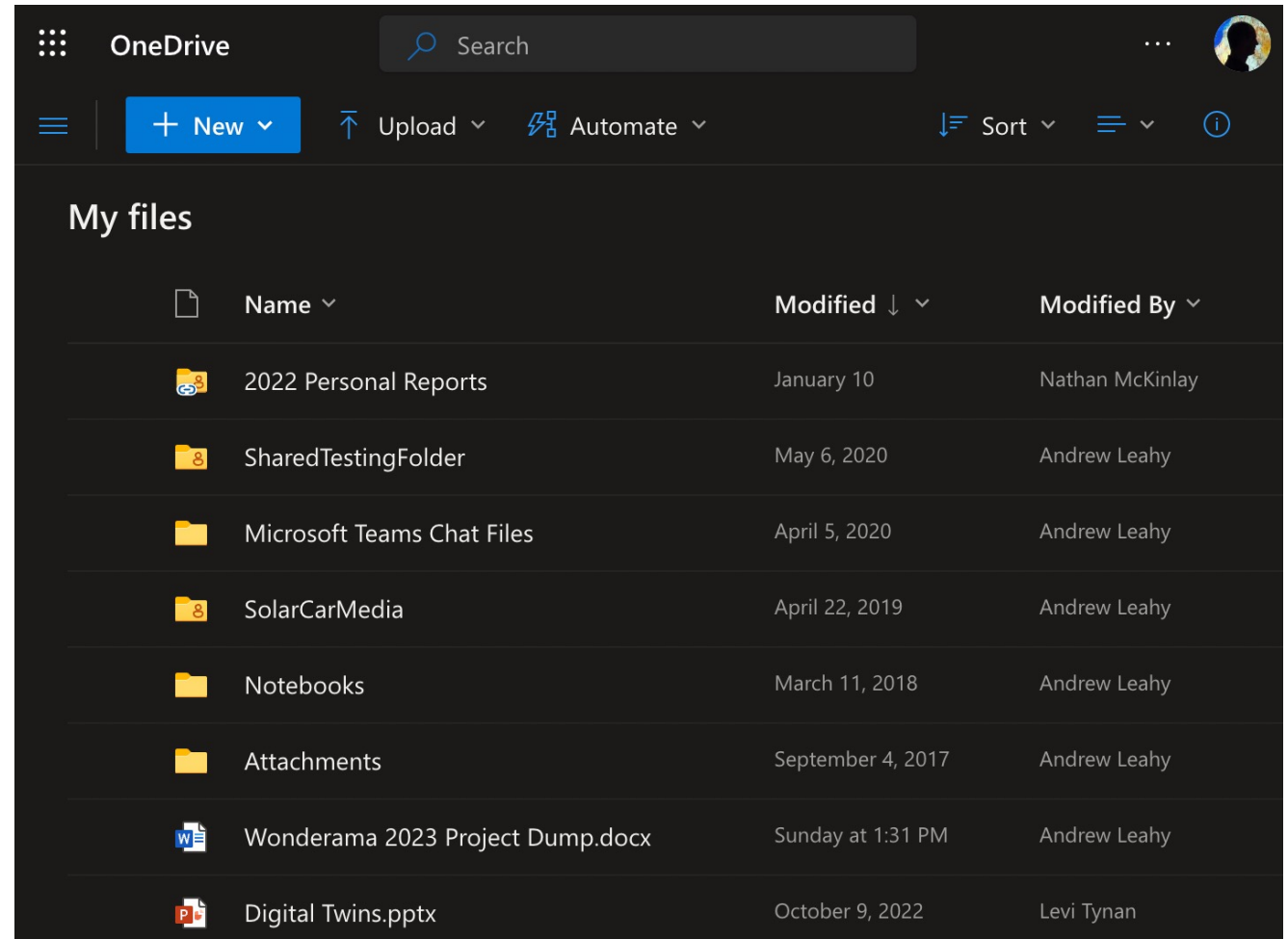


HIE Options for Data Storage

OneDrive

- Great for personal document stash
- OK for small datasets
- Can be shared with collaborators
- Available everywhere
- 1-5Tb's

- Is backed up!
- Has quirks with very long filenames and deep paths



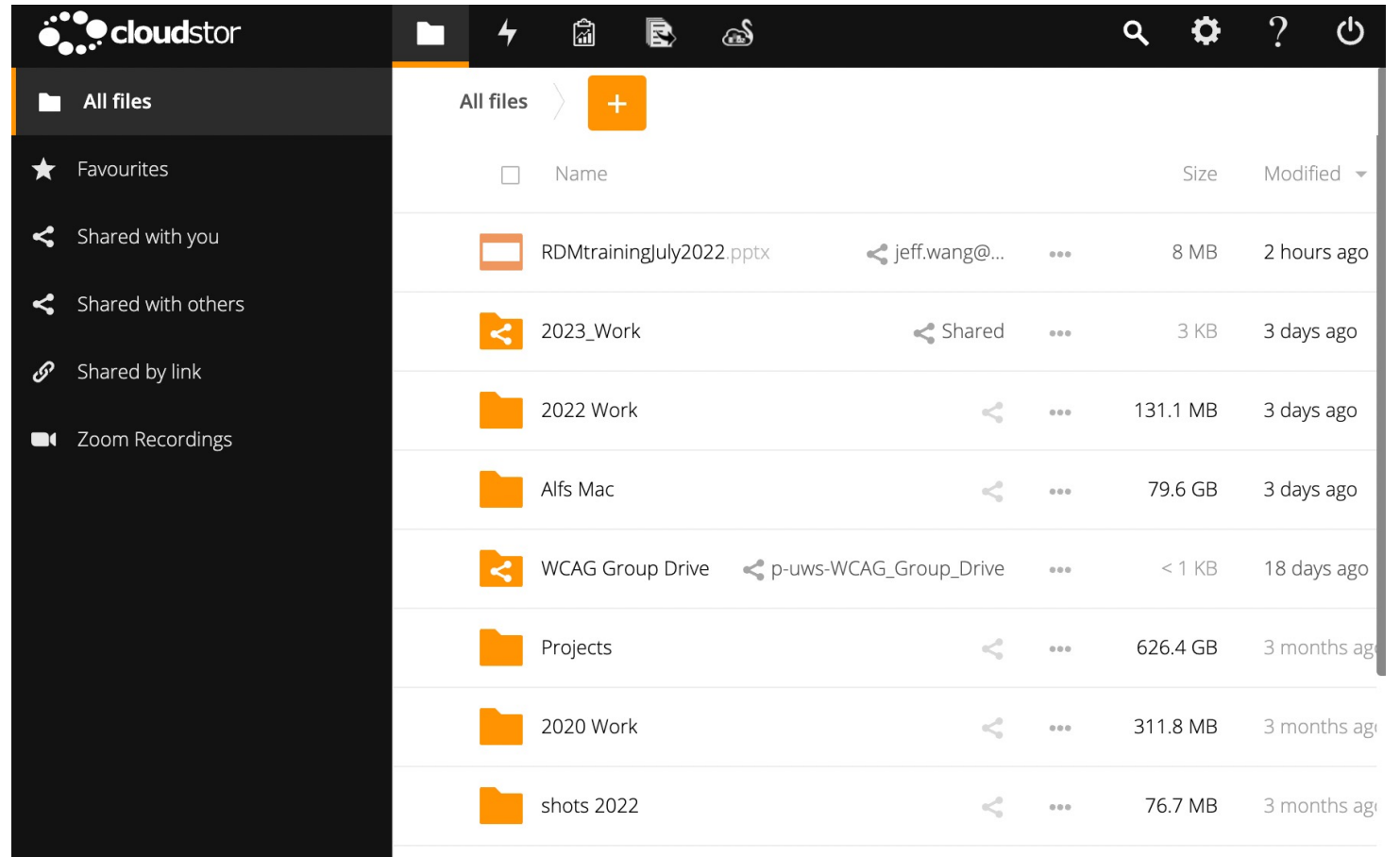
HIE Options for Data Storage

AARNet CloudStor

- Great for document stash
- OK for small-medium datasets
- Can be shared with collaborators
- 1-5Tb's or bigger

- Desktop sync client is good!

- Is going away by the end of the year.
- To be replaced with ????

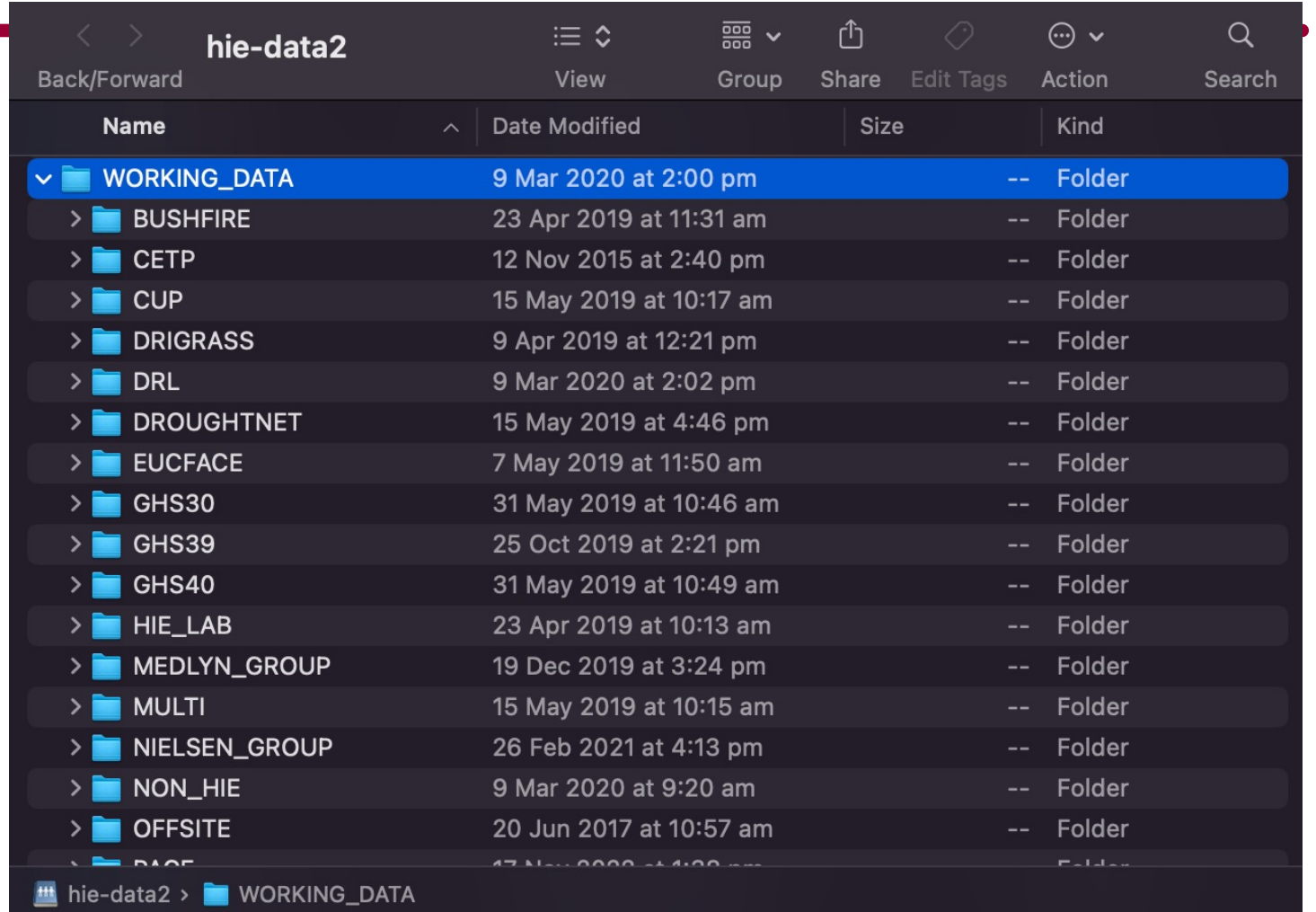


HIE Options for Data Storage

HIE-Data2 – Network Folder

- Great for small groups on-campus
- Sometimes called Network Drive or R: Drive
- Requires campus cable connection
- 1-5Tb's

- Is better than hard-drives!

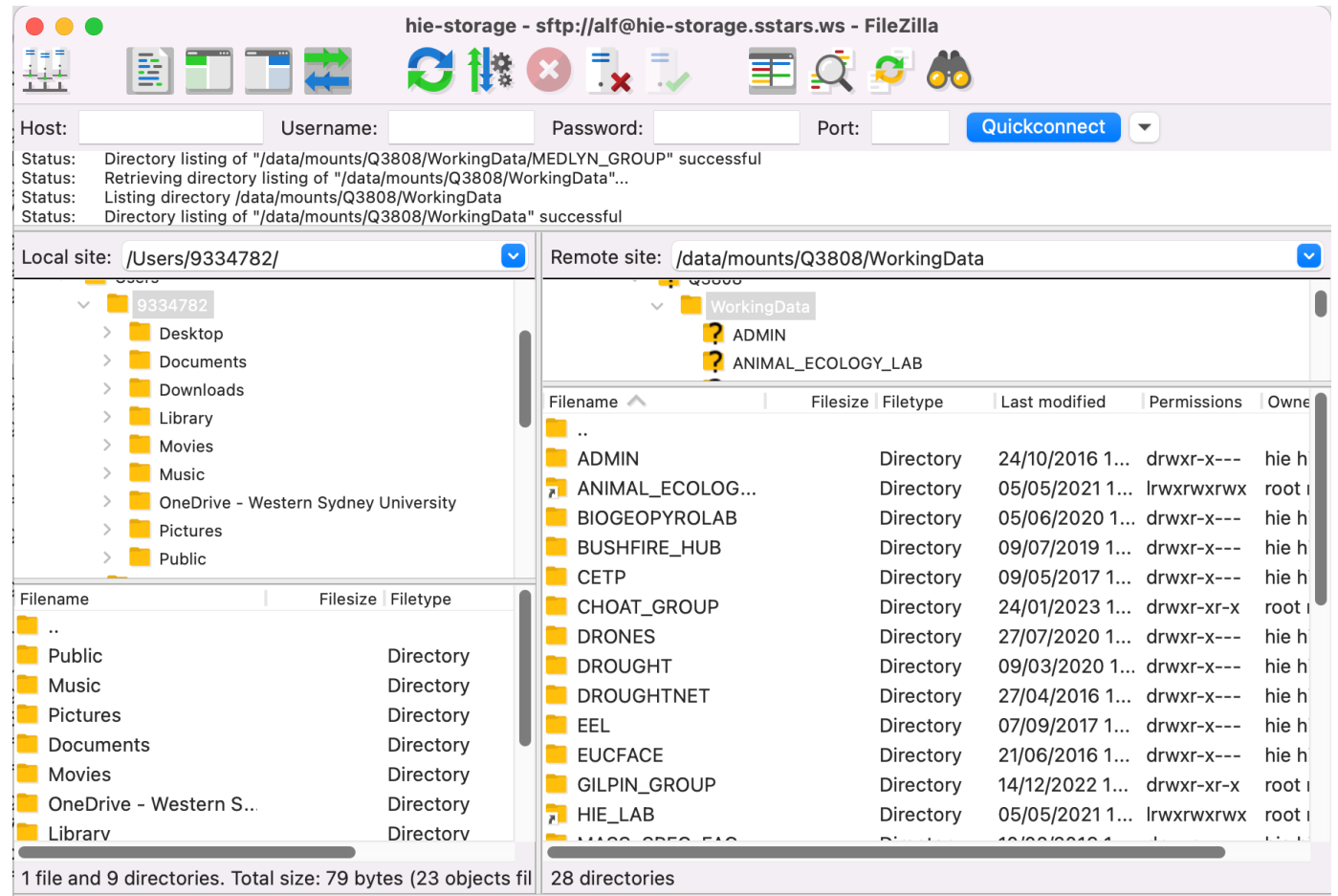


HIE Options for Data Storage

HIE-Storage – big data storage

- Good for large folders that need to be shared everywhere
- Can be accessed by HIE compute servers
- Dozens.. hundreds of Tb's.
- Uses account:ssh keys
- Can grant access to external collaborators

- CAN map hie-storage as a drive!



HIE Options for Data Storage

HIE-Storage – plus analysis tools

- "big" Linux computers
typically 64-128 cores, 256Gb-1.5TB RAM
- Example: R Studio Server (web)
<https://hie-general2.sstars.ws/rstudio/>
- Downloaded and compiled apps, ...

The screenshot displays the R Studio web interface in a browser window. The browser address bar shows the URL `hie-general2.sstars.ws/rstudio/`. The R Studio interface includes a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help), a toolbar, and a main workspace divided into several panels:

- Source Editor:** Contains R code for creating a data frame and a function. The code is as follows:

```
1 Name <- c("Jon", "Bill", "Maria", "Ben", "Tina")
2 Age <- c(23, 41, 32, 58, 26)
3 Times <- c(1,2,3,4,5)
4
5 df <- data.frame(Name, Age, Times)
6 print(df)
7
8 product <- function( x, output)
9   A <- x[2]
10  B <- x[3]
11  return(A*B)
12
13
```
- Console:** Shows the output of the code execution, including the data frame `df` and the result of the `product` function.

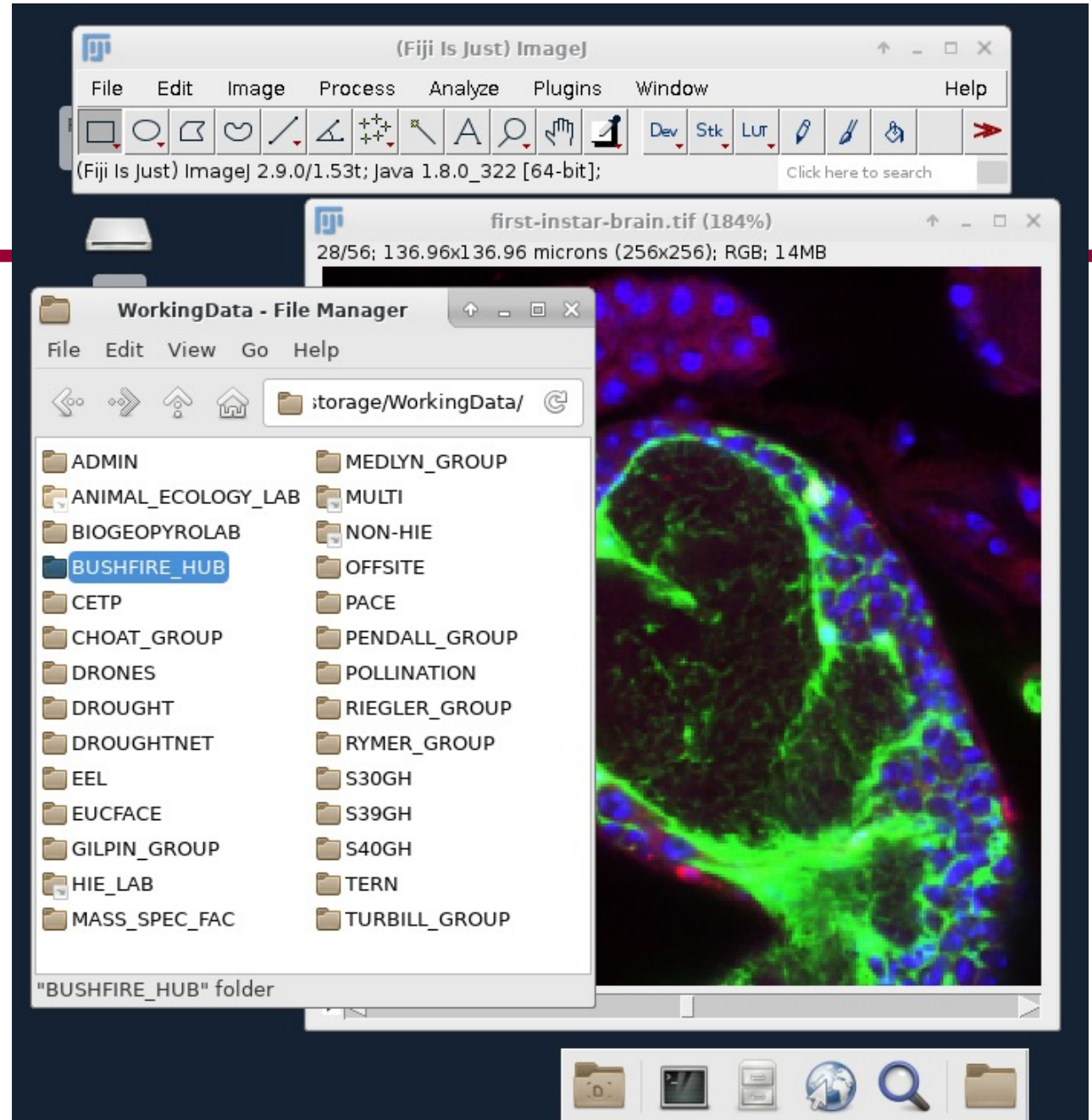
```
old.packages()
old.packages()
installed.packages()
pwd
print(df)
Name <- c("Jon", "Bill", "Maria", "Ben", "Tina")
Age <- c(23, 41, 32, 58, 26)
df <- data.frame(Name, Age)
print(df)
source("~/active-rstudio-document", echo=TRUE)
View(df)
```
- Files Panel:** Displays a file explorer view of the home directory, showing files and folders such as `.RData` (32 B), `.Renv` (22 B), `.Rhistory` (755 B), `bowtie.zip` (77 MB), `bowtie2-2.5.0-linux-x86_64`, `Cytoscape_v3.9.1`, `CytoscapeConfiguration`, `dead.letter` (227 B), `download` (10 MB), and `Genoious_Prime_linux64_with_i` (243.4 MB).
- Terminal:** Shows the R version `R 4.2.2` and the current directory `~/`. It also displays a message about citing R or R packages in publications and instructions for using `demo()`, `help()`, and `help.start()`.

HIE Options for Data Storage

HIE-Storage – analytics tools

Example

ImageJ via X2Go / mobaxterm



HIE Options for Data Storage

HIE-Storage – analytics tools

- Example

CLC Genomics Workbench
(licensed software) via X2Go

The screenshot shows the CLC Genomics Workbench 22.0.2 interface. The main window displays a DNA sequence viewer for the file 'pcDNA3-atp8a1'. The sequence is shown in a multi-line format with positions 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, and 340 marked. A green bar highlights a region labeled 'CMV promoter' starting at position 180 and ending at position 340. The interface includes a menu bar (File, Edit, View, Connections, Utilities, Download, Toolbox, Help), a navigation area with 'CLC Data', 'Example Data', and 'Recycle bin', and a toolbox with various analysis tools. The status bar at the bottom indicates 'Sequence: pcDNA3-atp8a1. Position: 181'.

HIE Options for Data Storage

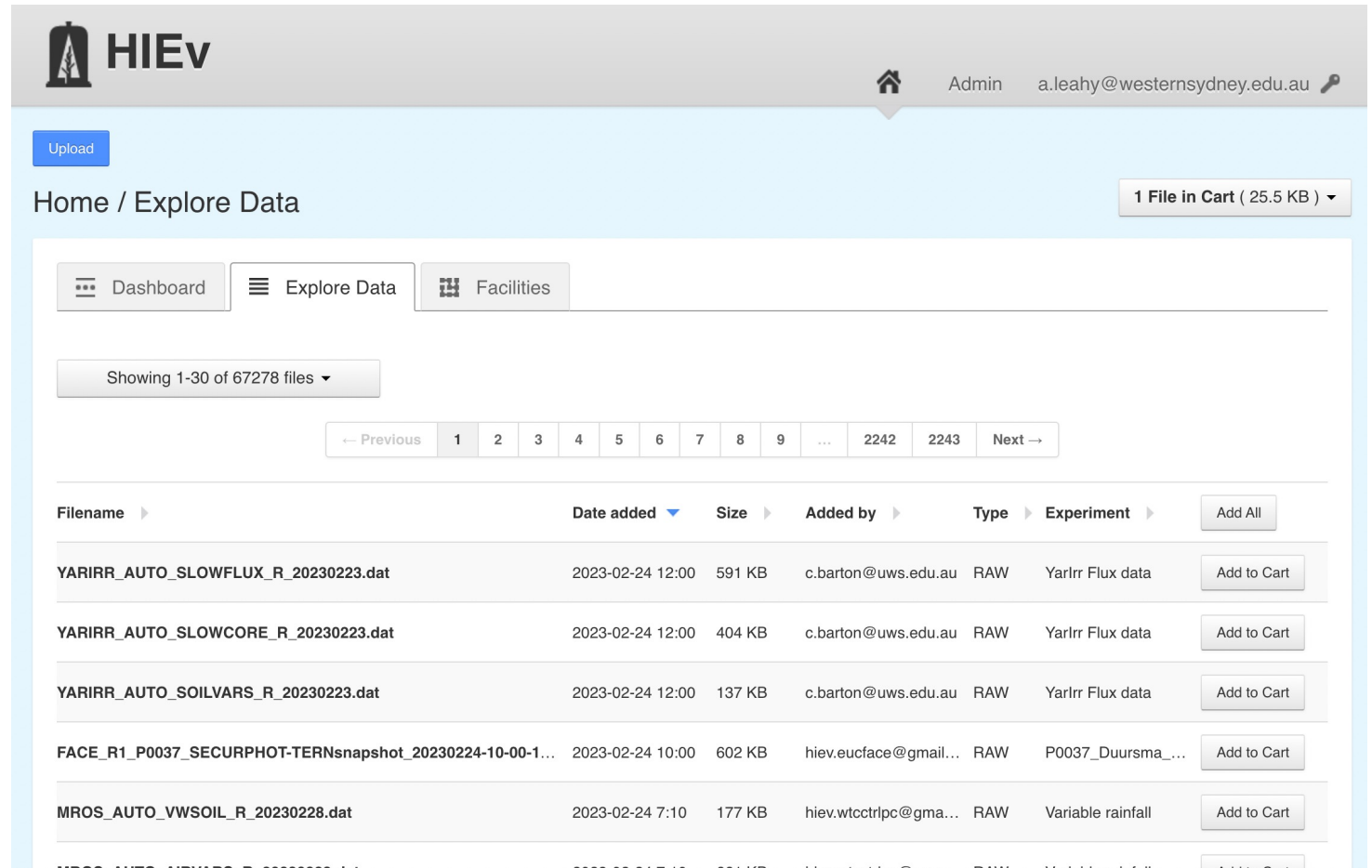
HIEv – data repository

Ingests data from several HIE facilities like EucFACE, ROS and Glasshouses.

Provides a web interface for query and upload/download, also API for Python & R

<https://hie.v.westernsydney.edu.au/>

<https://hortgh.westernsydney.edu.au/>



The screenshot displays the HIEv web interface. At the top, there is a navigation bar with the HIEv logo, a home icon, and user information: Admin, a.leahy@westernsydney.edu.au. Below the navigation bar, there is a blue 'Upload' button and a breadcrumb trail: Home / Explore Data. A notification in the top right corner indicates '1 File in Cart (25.5 KB)'. The main content area features three tabs: Dashboard, Explore Data (selected), and Facilities. Below the tabs, a dropdown menu shows 'Showing 1-30 of 67278 files'. A pagination control shows '← Previous', page numbers 1 through 9, an ellipsis, and page numbers 2242 and 2243, followed by 'Next →'. The main area contains a table of files with columns for Filename, Date added, Size, Added by, Type, and Experiment. Each row has an 'Add to Cart' button. The table lists several files, including YARIRR_AUTO_SLOWFLUX_R_20230223.dat, YARIRR_AUTO_SLOWCORE_R_20230223.dat, YARIRR_AUTO_SOILVARS_R_20230223.dat, FACE_R1_P0037_SECURPHOT-TERNsnapshot_20230224-10-00-1..., MROS_AUTO_VWSOIL_R_20230228.dat, and MROS_AUTO_VWSOIL_R_20230228-1...

Filename	Date added	Size	Added by	Type	Experiment	Action
YARIRR_AUTO_SLOWFLUX_R_20230223.dat	2023-02-24 12:00	591 KB	c.barton@uws.edu.au	RAW	YarIrr Flux data	Add to Cart
YARIRR_AUTO_SLOWCORE_R_20230223.dat	2023-02-24 12:00	404 KB	c.barton@uws.edu.au	RAW	YarIrr Flux data	Add to Cart
YARIRR_AUTO_SOILVARS_R_20230223.dat	2023-02-24 12:00	137 KB	c.barton@uws.edu.au	RAW	YarIrr Flux data	Add to Cart
FACE_R1_P0037_SECURPHOT-TERNsnapshot_20230224-10-00-1...	2023-02-24 10:00	602 KB	hie.v.eucface@gmail...	RAW	P0037_Duursma_...	Add to Cart
MROS_AUTO_VWSOIL_R_20230228.dat	2023-02-24 7:10	177 KB	hie.v.wtctrlpc@gma...	RAW	Variable rainfall	Add to Cart
MROS_AUTO_VWSOIL_R_20230228-1...	2023-02-24 7:10	177 KB	hie.v.wtctrlpc@gma...	RAW	Variable rainfall	Add to Cart

HIE Options for Data Storage

HIEv – automatic field data

Is particularly useful for table-based time series data

Example:

https://hiev.uws.edu.au/data_files/452337

Column	Column Mapping	Unit	Measurement Type
TIMESTAMP		TS	
RECORD		RN	
t_hmp_Avg		C	Avg
rh_hmp_Avg		percent	Avg
SBTempC_Avg(1)			Avg
SBTempC_Avg(2)			Avg
SBTempC_Avg(3)			Avg
SBTempC_Avg(4)			Avg
TargTempC_Avg(1)			Avg
TargTempC_Avg(2)			Avg
TargTempC_Avg(3)			Avg
TargTempC_Avg(4)			Avg
Net_SW_Avg		W/m2	Avg
Net_LW_Avg		W/m2	Avg
LI190SB_PAR_Den_Avg		uMole s-1 m-2	Avg
SlrW_Avg		W/m2	Avg

HIE Practices for Data Storage

Save RDMP PDF to your Working Storage

You might see a PROJECT_DETAILS.txt

or

README.md in group folders these are helpful!

I often create HOWTO.txt files to remind myself where something came from

```
WorkingData/EUCFACE/PROJECTS/P0028/Project_Details.txt
```

```
Project Title: P0028
```

```
Project Description:
```

```
Using multispectral stereo imaging to determine the impacts of free air CO2 enrichment on grassy understory vegetation in Cumberland Plain woodland.
```

```
Point clouds from the EucFACE vegetation plots (text files that occupy several Gb). This is raw data required to estimate plant heights and predict aboveground biomass.
```

```
HIE facility: EucFACE
```

```
Types of data expected: Mainly text files
```

```
Project Contact/Data Lead: Matthias Boer, HIE
```

```
Data Collaborators: None
```

```
Access: Share folder access given to Matthias Boer
```

```
Project Start Date:
```

```
Data Review Date: 1st May 2018
```

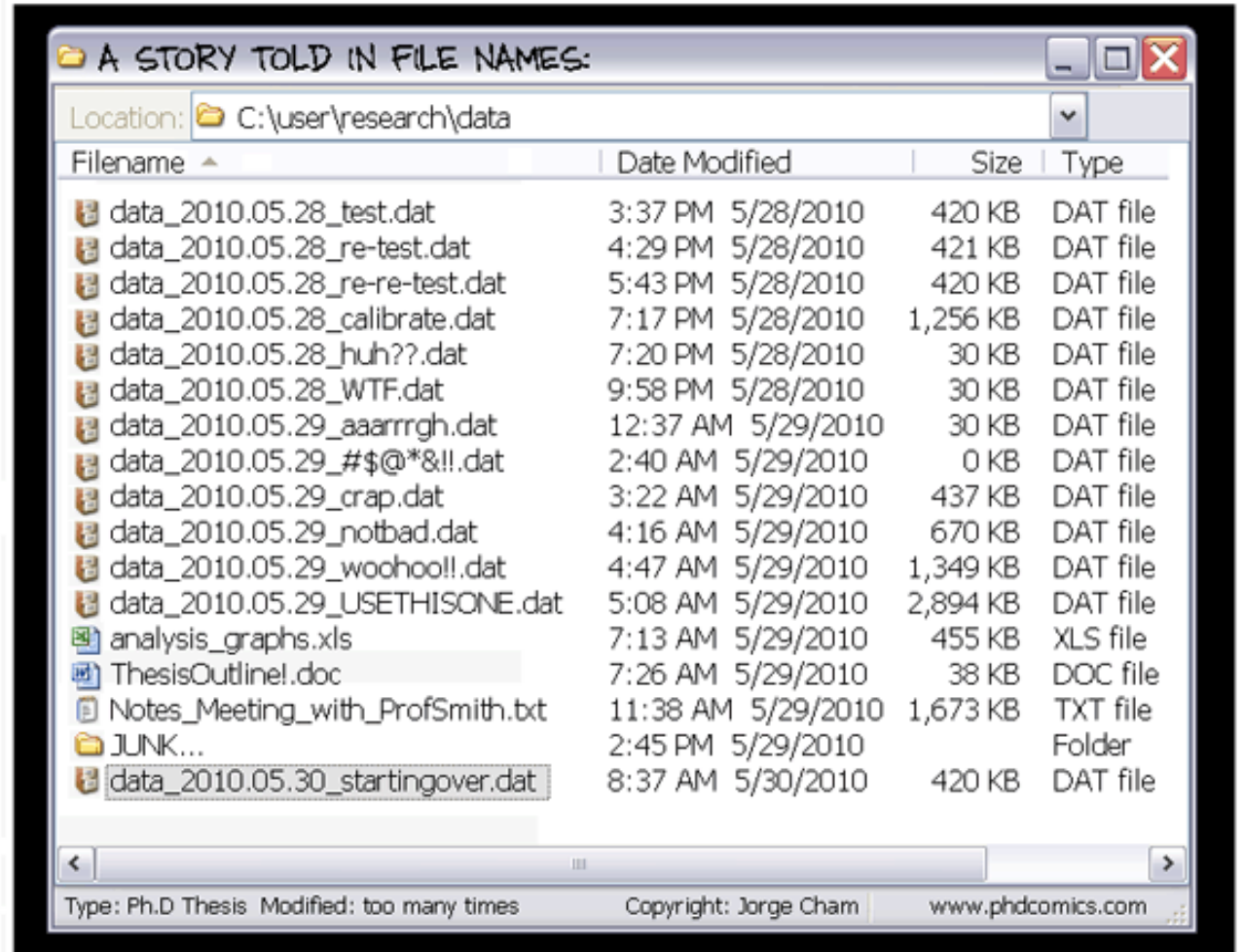
HIE Practices for Data Storage

```
$ head strength_3.csv
```

```
Var1,Var2,SpearmanRho,MICE  
Pm_1,Pm_4,-0.463558,0.816519  
Pm_1,Pm_9,0.579412,0.827820  
Pm_1,Pm_17,0.761765,0.954434  
Pm_1,Pm_22,-0.508824,0.827820  
Pm_1,Pm_32,-0.573529,0.827820  
Pm_1,Pm_38,0.732353,0.816519  
Pm_1,Pm_45,-0.658824,0.816519  
Pm_1,Pm_47,-0.714706,0.827820  
Pm_1,Pm_49,-0.822845,0.896038
```

```
$ wc -l strength_3.csv
```

```
101197286 strength_3.cs
```



Good file naming is crucial to data management (and your future sanity). Here are some guidelines:

- Name your files consistently
- Use short but descriptive filenames (<25 characters)
- Avoid special characters or spaces in a file name
- Use capitals and underscores instead of periods or spaces or slashes
- Use date format ISO 8601: YYYYMMDD
- Include a version number in the filename if you don't have version control software (eg. 20210913-Example_Data-V1.csv)



Q & A: ASK US ANYTHING!

Karen Sheehy, Library Research Data

Andrew (Alf) Leahy, HIE Data Manager a.leahy@westernsydney.edu.au

Up next...

Kaysha Carroll, HIE Liaison Librarian

The Library ▾

WSU Library

Campus Libraries >

<https://library.westernsydney.edu.au/>

The Library ^

Campus Libraries

What's On

The Library Reimagined

Finding & Using Resources

Tools & Apps

Policies & Rules

FAQs

Contact Us



HIGHER DEGREE STUDENTS

(PhD, Masters (Hons and Coursework), GradDip, GradCert, Ugrad Hons)

60 items at any one time

28 day loan

28 day renewal periods, up to a maximum of 168 days from the initial renewal date

Late fees apply.


Library FAQs

519 Answers

Type your question

Search



 Online Librarian



When might I want to contact the Library ?

Milestone	Issue	Support Offered
Early Candidature Plan	Online Profile . eg. ORCID, Google Scholar	Assistance
Confirmation of Candidature	Data Management Plan	Assistance and curation
Literature Review (Narrative or Systematic)	Structuring the review Locating items for review	Subject Guides Database access Consultation
Searching / Reading	Search strategies Videos Data Management Alerts	Endnote download and support Workshops Consultations
Writing	Structure and formatting	Research Direct Repository Study Smart
Referencing	Style features	The Refencing Style Guides Referencing Library guide / Citation Manager (Endnote) Referencing consultation with SL
Publishing	When and where to publish and how to choose	Journal finder

Why should I meet with a Institute Librarian?

A School Librarian can assist you through all stages of your HDR journey

- Guide you to the services that can support your research.
- Develop an effective search strategy.
- Access literature resources and data sets.
- Assess quality outlets for publication.
- Manage and publish your original research data.
- Establish your identity as a researcher.
- Build your online presence.
- Increase your research impact.
- Track and measure the impact of your research.

Researchers

- Conducting Research
- Data Management
- Scholarly Publishing
- Open Access Publishing Fee Support
- ResearchDirect
- Evaluating Success
- Requesting Items
- Using Australian Bureau Statistics (ABS)
DataLab for Research

Searching for information

The library has access to a large number of resources to help you find relevant information:

Library search box	Print, eBooks and more
eResources	Use the subject guides, or access A-Z list of databases; also A-Z list of journal titles
Theses	WSU: ResearchDirect Australia: TROVE International: ProQuest Dissertations & Theses A&I
Grey literature	Use specific search techniques in Google Scholar and Google, or search APO to locate information that falls outside the mainstream publishing channels

If you find something the Library does not have full text access to, our Document Delivery service will source it for you.

DOCUMENT
DELIVERY



DOCUMENT DELIVERY

The Library supplies items not held by Western Sydney University Library to clients who meet the following eligibility criteria in support of teaching, learning and research.

ELIGIBILITY

- Current Western Sydney University staff
- PhD, Masters and Honours students enrolled in courses at Western Sydney University.

Searching strategically

Researchers

Conducting Research

Data Management

Scholarly Publishing

Open Access Publishing Fee Support

ResearchDirect

Evaluating Success

Requesting Items



Using Australian Bureau Statistics (ABS)
DataLab for Research



Effective search strategies


- Not all databases are equal or suitable for different discipline areas.
- Use the best keywords or keyword combinations.
- Tracking citations & research threads.
- Identify key works and writers in your area.
- Set alerts to keep you informed.
- Check and decide on methodologies.

Library Search Box

 WESTERN SYDNEY UNIVERSITY | Library | NEW SEARCH | **JOURNAL SEARCH** | BROWSE | DATABASES A-Z | **DOCUMENT DELIVERY** |   Sign in

environmental research  / Books, eBooks, Videos, and more   **ADVANCED SEARCH**

Active filters

Peer-reviewed & Scholarly Arti... 


 Remember all filters

 Reset filters

REQUEST: **Request**

Requesting books between campuses

<https://www.youtube.com/watch?v=yJGI8oIJL38>

Journal Search 





















Library E-resources



CAS ANALYTICAL METHODS

CAS Analytical Methods makes it simple to locate, compare, and understand analytical methods published in top journals.

- [An@tomedia](#)   
 - [Anatomy.tv](#)  
 - [Visible Body](#)   
-          
- more...*





ProQuest Biological
Science Collection




Wiley Online Library




<https://subjectguides.library.westernsydney.edu.au/schoolscience>




My Web of Science

-  Marked List
-  View your search history
-  Profile
-  Saved Searches and Alerts

DOCUMENTS CITED REFERENCES STRUCTURE

All Fields 	Example: liver disease india singh "honey bee" OR "Apis mellifera"
--	---

 And 	All Fields 	Example: liver disease india singh drought OR heat* OR "climate change"
---	--	--

 And 	All Fields 	Example: liver disease india singh spread* OR reproduc*
---	--	--


[+ Add row](#) [+ Add date range](#) [Advanced Search](#)

Research Direct

Researchers ^

- Conducting Research
- Data Management
- Scholarly Publishing
- Open Access Publishing Fee Support
- ResearchDirect 
- Evaluating Success
- Requesting Items
- Using Australian Bureau Statistics (ABS)
DataLab for Research

Library Home Submit Your Research Admin Login Help

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Library

Search Term **search** >

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- Western Sydney University research is made searchable and accessible to the global community via the Library's institutional repository.
- Publication records are harvested by Google, Google Scholar, and Trove, increasing the visibility of these research outputs.
- Access to the full text of the publication or output will be made available where possible
- Create and maintain your data management plan.
- Access to Western Sydney University datasets.
- Research dataset records are harvested by Research Data Australia.

- [Submit a publication](#)
- [Submit a research dataset](#)
- [Data management plan](#)
- [Search for research datasets](#)

Researcher profiles

Identity management and getting noticed

ORCID DISTINGUISH YOURSELF

orcid.org

Connecting Research
and Researchers

- Check [Library FAQs](#) to help set up and edit your ORCID record.
- Populate the record with your affiliation and key contact details.
- Import details of your publications from your Google Scholar profile.

Google Scholar

scholar.google.com.au

- Check [Library FAQs](#) to help manage your Google Scholar profile.
- Make your profile **public** and use a **verified email** (institutional email address) to link your name to your profile in any search results.
- Manage your Google Scholar profile - if you choose automatic updates, check regularly.

Publishing strategically

Researchers

Conducting Research

Data Management

Scholarly Publishing

Open Access Publishing Fee Support

ResearchDirect

Evaluating Success

Requesting Items

Using Australian Bureau Statistics (ABS)
DataLab for Research

Where you publish can help or hinder your career

- Identify relevant publication outlets for your research.
- Assess publication outlets to ensure quality.
- Avoid predatory journals and conferences.
- Pages to compare a range of journal metrics and evaluation measures.

EndNote

The Library

Campus Libraries

What's On

The Library Reimagined

Finding & Using Resources

Tools & Apps

Policies & Rules

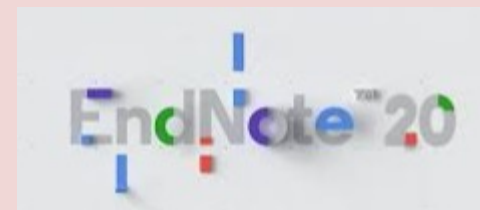
FAQs

Contact Us



Program for storing and managing your references

- Imports references from Library catalogue, databases and Google Scholar.
- Instantly formats bibliographies and in-text citations in Word documents in the referencing style of your choice.
- Visit the **Library website** to:
 - Download EndNote.
 - Access support documentation - EndNote training notes, EndNote FAQs, EndNote libguide.
 - Book into an EndNote training session.



<https://subjectguides.library.westernsydney.edu.au/endnote>

Institute Librarian – Kaysha Carroll

Kaysha Carroll

School of Science
MARCS/ICNS
HIE




Email - kaysha.carroll@westernsydney.edu.au

Book a zoom appointment -

<https://westernsydney.libcal.com/appointments/consult?u=55125>

WesternNow form - Consultation with a School Librarian

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Subject specific assistance for the entire research lifecycle

Kaysha can meet with you individually and outline Library resources and services that can assist with your specific research topic or need:

- **Getting started with the Library for your PhD and locating theses and material for your COC**
- **Research skills and using the advanced features Library databases to save yourself time with research**
- **Getting started with Research Data Management**
- **Strategically publishing including Open Access and Article Processing Charges considerations for your research**
- **Getting your research noticed outside academia, and ensuring impact metrics in Library resources**