

Managing your Digital Research Data @ ANU

Elke Dawson
Manager, Open Research
Scholarly Information Services



<https://orcid.org/0000-0002-9881-2423>

What is Digital Research Data?

- Any data that is created during research that can be stored on a computer.
- Includes field notes, digital images, videos etc as well as
- on-digital images as they can be converted to digital
- It is not
 - physical data such as biological specimens, soil samples etc.
 - publications, reports, technical/working papers etc.

What is Data Management cont'd?

Anything outside of actually using the data

Organisation

Bibliography
Management

- File transfers & remote access
- Synchronisation
- Collaboration
- Version Control

Administration

- Backups
- Validation & Authentication
- Documentation
- Access Control
- Security

Archiving

- Sharing Methods
- Licensing
- Formats & Standards
- Access Restrictions
- Metadata
- Archiving

Why Data Management?

FIRST AND FOREMOST IT'S YOUR BACKUP STRATEGY

You can't share, reproduce or publish your results if you have lost your data!!!



Why Data Management cont'd?

- Work more efficiently with data
- Protects against improper access
- Allows reuse / reproducibility
- Facilitates dataset citation and hence greater exposure, enhanced research/er reputation and prestige

Piwowar HA and Vision TJ (2013) Data reuse and the open data citation advantage. PeerJ, 1:e175. <http://dx.doi.org/10.7717/peerj.175>

Why Data Management cont'd?

- Comply with ethical and privacy regulations
- Funding agency requirements
 - Data relating to publications must be kept for at least 5 years but preferably longer / permanently
- Journals starting to require availability and sharing of data as part of the publication process e.g. Nature, Science, PLoS, etc.

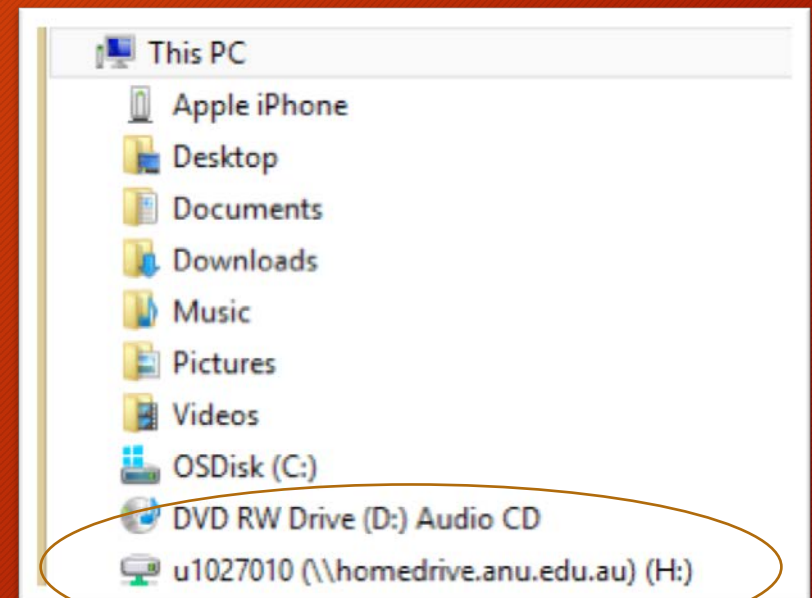
Data and compute resources available at ANU

- ANU Home drive
- Alliance
- ANU Data Commons
- AARNET CloudStor
- Open Research

ANU Home drive

Storage provided to everyone at ANU via a web interface at <https://myfiles.anu.edu.au> and a share drive on your PC

- 4.5 GB
- Fully synced and backed up



Alliance

‘In Alliance each user has his or her own individual worksite called My Workspace. Here you can keep personal documents, create new sites, maintain a schedule, store resources, and much more.’

- 1GB which can be increased on request
- Online collaborative environment
- Off-campus access thereby facilitating the sharing of files with external collaborators

<https://alliance.anu.edu.au/welcome/>

ANU Data Commons

- Web interface to self archive data for short term / long term / permanent storage
- Work-in-progress (WIP) data can also be stored
- Facilitates minting of persistent digital identifiers (DOIs) for dataset citations
- Datasets & associated metadata can be restricted or open
- Larger datasets (e.g. over 10 GB) can be uploaded via command line
- Harvested by Research Data Australia (RDA)

<https://datacommons.anu.edu.au/>

AARNET CloudStor

- Fast access using ANU credentials sign-on
- Storage located in Australia thereby avoiding sovereignty issues
- Data is replicated three times at geographically distributed storage nodes.
- Individual researchers receive up to 100 GB of storage free of charge. More storage is available at low cost.
- AARNet can set up groups with group storage quotas for research collaborations.
- You can view, sync and share files across your devices.

<https://cloudstor.aarnet.edu.au/>

Open Research

The screenshot shows the Australian National University Open Research Library homepage. At the top, there is a dark header with the ANU logo and name on the left, 'Open Research Library' in the center, and a search bar on the right labeled 'Search ANU web, staff & maps'. Below the header is a navigation menu with links: Home, About, Collections, Contribute, Publishing, Policy, Copyright, Contact, and My Open Research. The main content area features a large search box with the placeholder 'Search by keyword...' and a 'GO' button. Below the search box is a link to 'advanced search »'. The page is divided into three columns of promotional tiles. The first tile, 'Open Research at ANU », features an image of an open book and a tablet, with text encouraging users to learn about world-class scholarly research. The second tile, 'Contribute your research », features an image of a stack of books and text explaining how to contribute to the online open access repository. The third tile, 'Contribute your thesis », features an image of hands holding a blue folder and text explaining the benefits of making a thesis available open access.

Australian National University

Open Research Library

Search ANU web, staff & maps

Home About Collections Contribute Publishing Policy Copyright Contact My Open Research

Search by keyword...

GO

[advanced search »](#)

Open Research at ANU »
Learn about the world-class scholarly research produced by the ANU academic community.

Contribute your research »
Find out how to contribute to the University's online open access repository.

Contribute your thesis »
Your thesis is a major research output. Discover the many benefits of making your thesis available open access and find out how to contribute.

- Meets open access requirements for research grants
- Metadata records for datasets linking to final locations
- Great place for associated publications
- Mandated location for theses

Further Information

ANU Data Management Manual

<https://services.anu.edu.au/files//DataManagement.pdf>

ANU Library Guides on data management

<http://libguides.anu.edu.au/datamanagement>

and

<http://anulib.anu.edu.au/research-learn/research-data-management>

Contact Details

Elke Dawson

Manager, Open Research

elke.dawson@anu.edu.au

02 6125 9729 (59729)

ANU Open Research

repository.admin@anu.edu.au

02 6125 7928 (57928)