



Title	オーストラリア3大学の研究データ管理支援サービスについて
Author(s)	佐藤, 垂紀
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北海道大学

オーストラリア3大学の研究データ 管理支援サービスについて

令和元年度出張研修報告会（オープンサイエンス・研究データ関係）

2020年2月4日

研究支援課理農系グループ
理学部数学図書室

佐藤 亜紀

1. はじめに 2分
出張の概要

2. 各校のRDMサポートサービス 6分
 - 2-1. ニューサウスウェールズ大学
 - 2-2. メルボルン大学
 - 2-3. モナシュ大学

3. 北大でRDMサポートサービスをすすめる 2分



<訪問日程>

- 2019/9/2 シドニー大学
- 9/3 ニューサウスウェールズ大学
- 9/5 メルボルン大学
- 9/6 モナシュ大学



2. 各校のRDMサポートサービス

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<各校に共通すること>

- わかりやすいサイト
- 大きささまざまなトレーニング
- ポリシー & 手続き方法確立
- 便利ツール
- 関連部署と連携



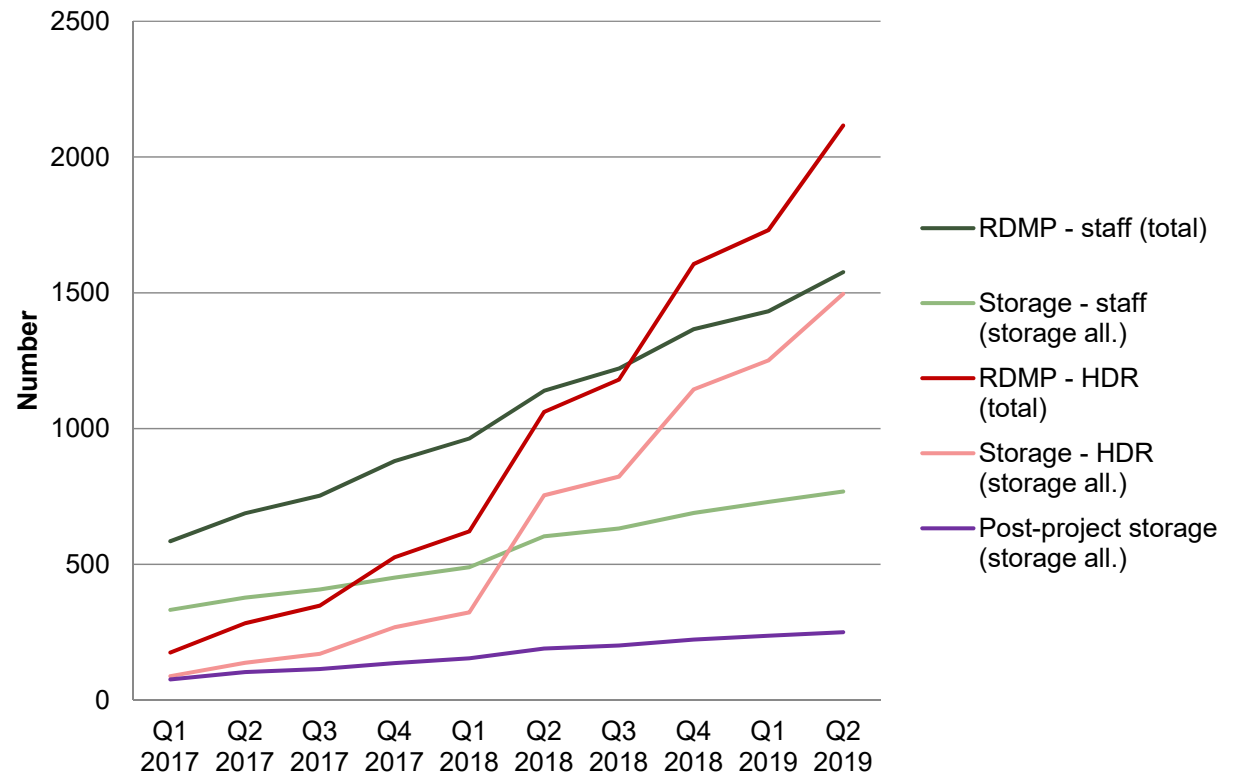
2. 各校のRDMサポートサービス

2-1. ニューサウスウェールズ大学①

RDMPは必須

2017-2019上半期の
2年半で
→研究者 **5** 倍以上
→職員 **2 - 3** 倍の
伸び

RDMPs and storage requests 2017 - 2019



引用:Data management at UNSW(訪問時の説明スライド)



2. 各校のRDMサポートサービス

2-1. ニューサウスウェールズ大学②

2019 Research Technology Training Course Calendar

トレーニング充実

・回数、内容

研究データだけでなく
プログラミングや調査
ツール、電子実験ノート
など研究に必要な
コト・モノ

40回以上

Date	Course Name	Registration
12 Feb	Learn to Program Using Julia	Info
19 Feb	Using Excel for Your Research Data	Info
20 Feb	UNSW eNotebook Town Hall	Info
26 Feb	Learn to Program Using R	Info
5 Mar	Intermediate to Advanced Programming in R	Info
11 Mar	Software Carpentry: An Introduction to Unix, Python and Git - Day 1 (BYOL)	Info
12 Mar	Software Carpentry: An Introduction to Unix, Python and Git - Day 2 (BYOL)	Info
18 Mar	Intermediate to Advanced Programming in Python (BYOL)	Info
19 Mar	UNSW eNotebook Town Hall 2	Info
26 Mar	Databases and SQL	Info
26 Mar	Data Capture and Surveys with REDCap	Info
26 Mar	Intro to Linux and HPC	Info
2 April	Learn to Program Using MATLAB	Info
8 Apr	Using Excel for Your Research Data (BYOL)	Info
8 Apr	Learn to Program using Python (UNSW Canberra)	Info
9 Apr	Data Manipulation and Visualisation in Python (UNSW Canberra)	Info
9 Apr	UNSW eNotebook Training (BYOL)	Info
10 Apr	UNSW eNotebook Town Hall and training (Canberra) (BYOL)	Info
10 Apr	Data Tools Information session (Canberra)	Info
30 Apr	Mastering text with Regular Expressions (3 hours) - RESCHEDULED to 24 May	
30 Apr	Regular Expressions on the Command Line (3 hours) - RESCHEDULED to 24 May	
7 May	UNSW eNotebook Training (BYOL)	Info
13 May	Learn to Program using R	Info
20 May	Intermediate to Advanced Programming in R	Info
21 May	Getting started with HPC	Info
22 May	Software Carpentry: An Introduction to Unix, Python and Git - Day 1	Info
23 May	Software Carpentry: An Introduction to Unix, Python and Git - Day 2	Info
24 May	Mastering text with Regular Expressions (3 hours)	Info
24 May	Regular Expressions on the Command Line (3 hours)	Info
28 May	Learn to Program Using MATLAB	Info
12 Jun	Introduction to Linux and High Performance Computing	Info
14 Jun	Data Manipulation and Visualisation in Python	Info
21 Jun	Excel for Researchers	Info
28 Jun	Learn to Program using R	Info
12 July	UNSW REDCap Clinic - Introductory Overview for Beginners	Info



2. 各校のRDMサポートサービス

2-1. ニューサウスウェールズ大学③

研究データの分類

便利ツール



STORING YOUR RESEARCH DATA

Key UNSW supported data storage platforms



UNSW OneDrive & Teams

- Suitable for day-to-day project storage and collaborations with UNSW and non-UNSW personnel
- Appropriate for research data classified from Public to Highly Sensitive
- Data is retained for at least 7 years

UNSW eNotebook



STORING YOUR RESEARCH DATA



Data Archive

Home Drive Shared Drive

	KEY SUPPORTED				CURRENTLY UNSUPPORTED		
Storage Platforms	UNSW OneDrive & Teams	UNSW eNotebook	Data Archive	Home Drive Shared Drive	CloudStor	Dropbox	Local Storage*
Storage Type	Day-to-Day	Day-to-Day	Long-Term	Day-to-Day	Day-to-Day	Day-to-Day	Day-to-Day
Suitable Data Classification	●●●●●	○●●●●	○●●●●	○●●●●	○●●●●	○●●●●	○●●●●
Stored in Australia	✓	✓	✓	✓	✓	✗	✗
Backup & Disaster Recovery	✓	✓	✓	✓	✗	✗	✗
Syncing with Local Copy	✓	Not Applicable	Not Applicable	Not Applicable	✓	✓	Not Applicable
External Collaborator Access	✓	✓	✗	✗	✓	✓	✗
Storage Limit	5 TB/User	Unlimited	Unlimited	Unlimited	1TB/User	③	③
Version Control	✓	✓	✓	✓	✓	✓	✗
Recovery from Deletion	60 Days	No Data Deletion	No Data Deletion	10 days	✗	③	✗
Post-Project Data Retention	> 7 years	Indefinitely	Indefinitely	> 7 years	③	③	③

*Local devices vary greatly in their configuration and security. Contact rdm@unsw.edu.au to find out which data classification is suitable for your local device (e.g., desktop, laptop & tablet).

● Highly Sensitive Data ● Sensitive Data ● Private Data ● Public Data ③ Dependent on the plan you have paid for ④ Unknown or Device Dependent

For Sensitive and Highly Sensitive data, data-encryption and/or other settings may be required. Please refer to the UNSW Data Handling Guidelines for more information. If you have any Highly Sensitive data, or research data management inquiries, please contact rdm@unsw.edu.au



CLASSIFYING YOUR RESEARCH DATA



Types of Research Data	Highly Sensitive	Sensitive	Private	Public
Data containing information involving minors/at-risk participants or culturally sensitive groups	The data is classified as Highly Sensitive			
Data subject to regulatory controls	The data is classified as Highly Sensitive			
Data containing personal information	The data is classified as Sensitive or higher			
Data containing confidential information	The data is classified as Private or higher			
Research involving human and/or animal research data	The data is classified as Private or higher			
Research data	The data is classified as Private or higher			

Research data may have other requirements that are not covered in the current data classification. If you have such unique requirements or doubts about classifying your data, please contact rdm@unsw.edu.au

UNSW-supported research data storage platform for the above data classifications can be found at <https://research.unsw.edu.au/research-data-management-unsw>

研究データのストレージ



2. 各校のRDMサポートサービス

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2-2. メルボルン大学①

Managing Data @Melbourne

による体系的なトレーニング

→ **6項目で構成**

- ①研究データ管理の始まり
- ②データ管理計画の作成
- ③研究倫理と法
- ④データの整理、保存、バックアップ
- ⑤データの文書化と説明
- ⑥データの共有と保存



2. 各校のRDMサポートサービス

2-2. メルボルン大学②



University of Melbourne Research Data Management Plan

DMPチェックリスト&テンプレート

- データのタイプ？
- フォーマット？
- 保存期間？
- 非デジタル？
- 再利用する？
- ライセンスは？
- ...

1. 研究の始めに
2. データについて
3. 倫理と法
4. データの保存
5. データの説明
6. データの共有
- ...

1. Getting Started	
a. Project title	
b. ID	
c. Grant reference number	
d. Ethics approval Number	
e. PI Name(s)	
f. DMP author name	The author or contact person for this DMP. This can be the same as the PI name.
g. Faculty / Department	Enter any faculties or institutions involved in this project.
h. Project start date	The date on which work on this project started or will start. This date can be approximate.

How long do you need to keep this research data?
Post-project Storage, Access and Re-use of Digital Research Data

2. 各校のRDMサポートサービス

2-3. モナシュ大学①

わかりやすいサイト

For researchers

The Library is your partner in research. We contribute a range of advice, services and resources to enable discovery, use, sharing, and management of information.



Research Lifecycle

The Research Lifecycle will connect you with the tools, information and advice for each stage of your research.

Discover now

Services for researchers

The Library has a range of services and resources for researchers. Discover what is available to you.

Find out more

Managing research data

Unsure what to do with your research data? Learn best practices in planning, managing, storing and sharing your data.

Find out more

Research repositories

Store, manage and share your research, and discover research collections from across the University.

Find out more

Research impact

The Library can provide advice and a range of tools to help you generate and demonstrate your research impact.

Find out more

Open Access at Monash

Monash University encourages Open Access, and provides tools and services to support it.

Find out more

Data Fluency

Better communicate your research and ideas, with new methods of interpreting and visualising data.

Learn more

Contact us

Subject Librarians can provide information and advice at any stage of your research

Email researchdata@monash.edu for all your research data management and repository enquiries.

Managing research data

Research data management information, solutions and key contacts.

Data management at Monash University

The information in these pages is primarily for researchers (staff, graduate research students and research collaborators from other institutions)

Start here

Sharing and publishing research information/data

How citing and publishing your research data can increase the impact of your research

Find out more

Choosing the right storage

Understanding your storage options and how to get access to it

Find out more

Benefits of data planning

How a planned approach to data collection, storage and dissemination can help you troubleshoot potential problems early and maximise your impact

Find out more

Understanding copyright

How Australian copyright law applies to data; staff and student ownership of data under the Monash Intellectual Property Framework; using other people's data responsibly.

Find out more

Advice and planning

Research data management advice, and informed referral to other services for resolving data management issues

Start here

Making your data

モナシュのデータ管理
 研究データの共有
 データに適した保管
 データ管理計画の利点
 著作権
 データのセキュリティ
 ...

Electronic Laboratory Notebooks

Electronic Laboratory Notebooks (ELN) is a digital platform that is designed to replace traditional paper research notebooks with a digital secure version

Learn more

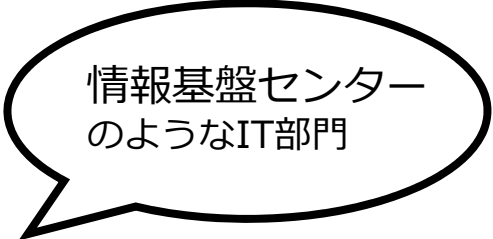


2. 各校のRDMサポートサービス

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2-3. モナシュ大学②

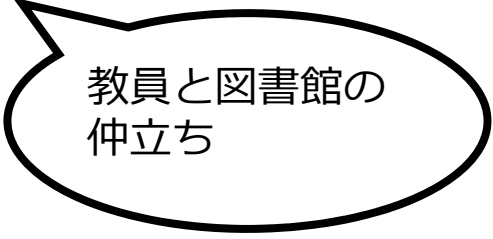
関連部署と連携



情報基盤センター
のようなIT部門

→ Monash eResearch Centre (MeRC)

→ Librarians + Learning Skills Advisers
=**Faculty teams**



教員と図書館の
仲立ち



3. 北大でRDMサポートサービスをすすめる

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<RDMサポートサービス_現在>

- RDMシステム→ GakuNin RDM
- RDMウェブサイト→研究支援情報

- ポリシー→大学？学協会？
- データリポジトリ→次期JAIRO Cloud？
- ストレージ→基盤センター？



3. 北大でRDMサポートサービスをすすめる

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<RDMサポートサービス_これから>

- RDMシステム→ GakuNin RDM
- RDMウェブサイト→研究支援情報
- トレーニング→まずは自分
- 便利ツール→他大学参照&翻訳
- 連携→教員・学科事務・URA
- ポリシー→大学？学協会？
- データリポジトリ→次期JAIRO Cloud？
- ストレージ→基盤センター？



- Research Technology Training Courses <https://research.unsw.edu.au/research-technology-training-courses>
- Data Storage and Tools <https://research.unsw.edu.au/data-storage-and-tools>
- Managing Data @Melbourne: an online research data management training program <https://minerva-access.unimelb.edu.au/handle/11343/225138>
- How Research <https://research.unimelb.edu.au/infrastructure/doing-data-better/how>
- For researchers <https://www.monash.edu/library/researchers>
- Managing research data
<https://www.monash.edu/library/researchers/researchdata>
- Librarians and Learning Skills Advisers
<https://www.monash.edu/library/skills/contacts>





ご清聴ありがとうございました