



# Citing and archiving your research data using ORA-Data

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# Structure

- What is ORA-Data?
- Data citation
- Describing your data
- What is data archiving?
- Where can I archive my data?
- ORA-Data update
- What you should do



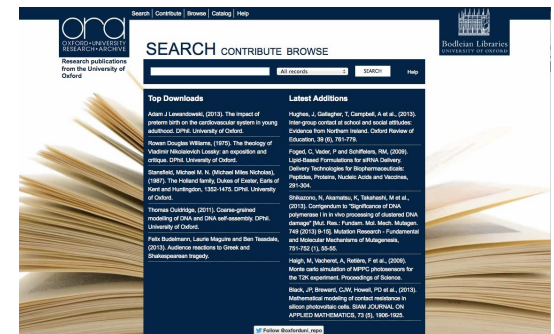
# Research Data Oxford in brief

- Oxford RDM Working Group
  - Academically led
  - RDM policy
- Collaborative services development to support researchers
  - Research Services [Grant writing]
  - IT Services [active data]
  - Bodleian Libraries [data archiving and dissemination]
- Bodleian Libraries
  - Archive
  - Description, discovery and citation
  - Access (as appropriate)
- Queries via RDM contacts and email
- RDM Oxford website <http://researchdata.ox.ac.uk/>



# What is ORA-Data?

- Oxford University Research Archive
- ora.ox.ac.uk
- For ‘publications’ – articles, conference papers, reports, working papers, etc
- Long-term archive
- High visibility
- Open access
- Listing of Oxford research outputs (record only)
- Extension for data





# SEARCH CONtribute BROWSE

All records SEARCH Help

## Top Downloads

Adam J Lewandowski, (2013). The impact of preterm birth on the cardiovascular system in adulthood. DPhil. University of Oxford.

Rowan Douglas Williams, (1975). The theology of Vladimir Nikolalevich Lossky: an exposition and critique. DPhil. University of Oxford.

Stansfield, Michael M. N. (Michael Miles Nicholas), (1987). The Holland family, Dukes of Exeter, Earls of Kent and Huntingdon, 1352-1475. DPhil. University of Oxford.

Thomas Ouidridge, (2011). Coarse-grained modelling of DNA and DNA self-assembly. DPhil. University of Oxford.

Felix Budelmann, Laurie Maguire and John Teasdale,

## Latest Additions

Hughes, J, Gallagher, T, Campbell, A et al., (2013). Inter-group contact at school and social attitudes: Evidence from Northern Ireland. Oxford Review of Education, 39 (6), 761-779.

Foged, C, Vader, P and Schiffelers, RM, (2009). Lipid-Based Formulations for siRNA Delivery. Delivery Technologies for Biopharmaceuticals: Peptides, Proteins, Nucleic Acids and Vaccines, 291-304.

Shikazono, N, Akamatsu, K, Takahashi, M et al., (2013). Corrigendum to "Significance of DNA polymerase I in in vivo processing of clustered DNA damage" [Mut. Res.: Fundam. Mol. Mech. Mutagen. 749 (2013) 9-15]. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis,

# My ORA



Choose a type:

Oxford Researcher

Journal Article

Conference/Workshop Paper

Other Research Item

Symplectic Deposit in ORA

Bulk Upload

Register a Conference/Workshop Event

[Data](#)



# Data citation: Why?

- Attribution
  - Recognition
  - Reward
  - Impact
- Discovery
  - Referencing
  - Avoid repetition
  - Potential collaboration
- Location
  - For access and re-use
  - Includes non-digital data
- Access
  - Verification
- Re-use
  - ‘Standing on the shoulders of giants’
  - Documentation of methods and descriptions of data
- Administration
  - Audit
  - Management



# DataCite

- International organisation
- Emerging data citation standard
- DOI agency for datasets



DataCite

<http://www.datacite.org>



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# Basic citation: DataCite metadata kernel

## 1.3 The Metadata Schema

The DataCite Metadata Schema is a list of core metadata properties chosen for the accurate and consistent identification of a resource for citation and retrieval purposes, along with recommended use instructions. The resource that is being identified can be of any kind, but it is typically a dataset.

**Table 1: DataCite Mandatory Properties**

<i>ID</i>	<i>Property</i>	<i>Obligation</i>
1	Identifier (with type sub-property)	M
2	Creator (with name identifier sub-properties)	M
3	Title (with optional type sub-properties)	M
4	Publisher	M
5	PublicationYear	M



# Minimum reference

Creator (PublicationYear): Title. Publisher. Identifier



# Deluxe reference

Creator (Publication Year): Title. Version.  
Publisher. Resource Type. Identifier



## 2. Discovery

- In addition to 5 mandatory elements, how might an interested person search for a dataset?
- May include (not exhaustive):
  - Subject/keywords
  - Resource type
  - Description text/abstract
  - GeoLocation
  - Methodology



# 3. Documentation & Re-use

**EPSRC**

Engineering and Physical Sciences  
Research Council

EPSRC policy framework on  
research data: Principles

<http://www.epsrc.ac.uk/about/standards/researchdata/Pages/principles.aspx>

“**Sufficient metadata** should be recorded and made **openly available** to enable other researchers to **understand** the potential for **further research** and **re-use** of the data. Published results should always include information on **how to access** the supporting data.”

# Describe your data in ORA-Data

- Designed to help researchers describe their data for:
  - Citation
  - Discovery
  - To meet funders' requirements
  - Understand the data
  - Preservation
- Does it work for you.....?

Note: Researchers need to prepare metadata for deposit in any data archive – not just ORA-Data



- Describe this item
- Authors/Creators
- Funding Information
- Additional Information
- Rights & Access
- Upload

Title \*  ?

Sub-title  ?

Abstract or brief description  ?

- helps on citation for this item
  - makes your item discoverable
  - required for funder compliance
  - helps documentation and re-use
  - allows preservation
- } Key

**\*\*\*WORK IN PROGRESS\*\*\***

**CONTACT ME IF YOU'D LIKE TO TAKE A LOOK AND OFFER FEEDBACK**

Status of your work

Has the work been published?

Subject

Keywords

Predominant discipline

Data Published

Date Published

Documentation

What is the temporal coverage of your data? from  to  ?

What date were the data collected?  ?

What is the geographical location/coverage of the data?  ?

Where are your data stored?  ?

What is the approximate size of the dataset?  ?

Discipline specific metadata (in .xml)   ?

Question: besides tabs, should we include Previous/Next buttons to help users to navigate? redundant?

# What do we mean by data archiving?

- Long term
- Policy governed
- Metadata for discovery etc
- DOIs
- Data curation
- Meeting funder requirements for continued access
- ‘Published’ data – stable snapshot
- Cost



# I need to archive my research data

**RESEARCH DATA OXFORD** UNIVERSITY OF OXFORD

Home About » Working with data » Preservation Sharing data » Tools, services, training Contact us

### Data Support Services for Researchers

**About RDM**  
An introduction to research data management, including policy expectations from some of Oxford's main funders.

**Working with data**  
Guidance and links to tools and resources to help you manage your data day-to-day and at the project planning stage.

**Sharing data**  
General guidance on sharing data - what to take into account, licensing, citing and depositing your data.

**Tools, services and training**  
Find out about Oxford tools to help with data management and sharing as well as training on offer.

### Useful Links

Ask a question - [Contact Us](#)  
University RDM policy - [download or view](#)  
Find out what funders expect - [see the funder policies page](#)  
Latest news - [Read the Oxford Research Data blog](#)

### Research Data Blog

**Research Data Management Mentoring Programme**  
Apr 23, 2014

Single email address for research data management enquiries  
Mar 13, 2014

The International Digital Curation Conference 2014 - The Sexiest Conference Delegates in California?  
Mar 07, 2014

### Training & Events

Check out the RDM website

<http://researchdata.ox.ac.uk/>



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# Where to archive

- Is there a suitable subject or national archive?
- What to look for in a data archive
- ORA-Data priorities
  - Data underpinning a publication
  - Data requiring archiving by a funder (eg EPSRC)
- Advice on RDM website (in progress)



# ORA-Data journey to full service

## Now

- Archive
- DOI assignment
- Mediated deposit in consultation
- URLs for data objects

## Phase 1: Sept 2014

- Basic service
- Online deposit form
- Search
- Review
- Cost model
- Legal framework

## Phase 2: May 2015

- EPSRC ready
- Phase 3 planning: additional features and functions
- Increased automation

# What do I need to do now?

- Check the RDM website
- If submitting a funding application include a [REALISTIC] cost line for data archiving
- Think about how to describe your data set
- If you need to archive in ORA-Data now
  - Contact us via RDM email
- If you need to archive in ORA-Data from Autumn 2014
  - Deposit your data via online web form

