



UNIVERSITY OF
CAMBRIDGE



OPEN DATA

Dr Marta Teperek
Dr Danny Kingsley
07/05/2015



Open Access:
making scholarly
research outputs
freely available to
access online

Photo credit
Nic McPhee





Why would I share my research?



The image is a screenshot of a BBC News website. At the top, there is a navigation bar with the BBC logo, a 'Sign in' button, and links for 'News', 'Sport', and 'Weather'. Below this is a red banner with the word 'NEWS' in white. Underneath the banner is another navigation bar with links for 'Home', 'UK', 'World', 'Business', 'Election 2015', 'Tech', and 'Science'. The main content area features a video player showing a young man in a green shirt and purple gloves working in a laboratory. Below the video player is the headline 'US teen invents advanced cancer test using Google' and the date '21 August 2012 Last updated at 00:34 BST'. At the bottom of the article snippet, it says 'Fifteen-year-old high school student Jack Andraka likes to kayak'.

BBC Sign in News Sport Weather

NEWS

Home UK World Business Election 2015 Tech Science

US teen invents advanced cancer test using Google

21 August 2012 Last updated at 00:34 BST

Fifteen-year-old high school student Jack Andraka likes to kayak

Jack Andraka used free online articles to design a pancreatic cancer test:

- 26,667 times cheaper,
- 168 times faster,
- 400 times more sensitive than the current test.



OPEN ACCESS



PUBLICATIONS



DATA



“Publicly funded research data are a public good (...), which should be made openly available with as few restrictions as possible...”

RCUK Common Principles on Data Policy
<http://www.rcuk.ac.uk/research/datapolicy/>





DON'T I OWN MY DATA?

Yes, but you have to abide by terms and conditions agreed upon when accepting the grant



WHAT IS RESEARCH DATA?

“..factual material commonly retained by and accepted in the scientific community as necessary to validate research findings...”

EPSRC:

<http://www.epsrc.ac.uk/about/standards/researchdata/scope/>

TODAY:

- EPSRC
- Other funders
- Funding for Research Data Management
- Our help

Strictest data policy

All publications published on/after 1st May 2015 need a statement describing how to access the underlying research data

EPSRC will do random checks on publications:

- *Is there a statement?*
- *Is data accessible?*

How to share data?

- Describe your data (metadata)
- Deposit your data in suitable repositories
- Use DOIs (Digital Object Identifiers)
- Store data for at least 10 years from the last access

Exemptions

- Personal/sensitive data
- IP protection/commercial data
- Too expensive to share

Appropriate statement in the publication needs to explain the reasons for restrictions



What do you need to do?

Make sure that a statement on how to access the data is present in every research publication acknowledging the EPSRC

Read more:

<http://www.epsrc.ac.uk/about/standards/researchdata/expectations/>

Other funders

- Require Data Management Plans
- MRC: Data Plans should be updated annually
- NERC and ESRC – their own data repositories

Funding for Research Data Management:

- Can be requested as part of the full economic cost of a research project.
- Can be used to support for example:
 - *staffing*
 - *data storage and sharing*
 - e.g. sharing data via Cambridge data repository: £5/GB

*Support available at the
University of Cambridge*

Photo credit
aloucha





www.data.cam.ac.uk

UNIVERSITY OF CAMBRIDGE Study at Cambridge About the University Research at Cambridge Quick links Search

Research Data Management

Home Open Access Data Management Guide Support Data Repository Research Data Policies Open Data Team Events FAQ



Welcome to the University of Cambridge Research Data Management Website

Welcome to the University of Cambridge Research Data Management website

Quick Links

- Data about the University
- Open Data lunchtime information sessions - register now
- Research at the University of Cambridge
- Cambridge Big Data
- Research Information at the University of Cambridge
- Cambridge Data Repository (DSpace)
- Upload your manuscript
- Open Access Project Board
- For EPSRC-funded researchers
- Open Data from UK Academic Institutions



FUNDERS' POLICIES

UNIVERSITY OF CAMBRIDGE Study at Cambridge About the University Research at Cambridge Quick links Search

Home / Research Data Policies

Research Data Management

Home Open Access Data Management Guide Support Data Repository Research Data Policies Open Data Team Events FAQ

Funders' Policies

View Edit Nodequeue

Research Data Policies overview
University of Cambridge Research Data Management Policy Framework
Funders Policies

Research Data Management
Research Data Policies
Funders Policies
For EPSRC-funded researchers
University of Cambridge Research Data Management Policy Framework

Related links
Search for policies of other funders
See detailed funders expectations and researchers

Events

- 20 APR Open Data lunchtime session for students - Central Cambridge
- 20 APR Human-Data Interaction
- 28 APR Open Data @Faculty of Mathematics - West Cambridge
- 30 APR Open Data lunchtime session - Central Cambridge
- 01 Open Data morning session -

Research data policies of major University research funders

The table below provides a short summary of research data management policies of top



FUNDERS' POLICIES

	Councils	available with as few restrictions as possible in a timely and responsible manner (...)."
AHRC	Arts and humanities	AHRC do not have their own data policy, and instead share the RCUK common principles on data sharing
BBSRC	Biotechnology and biological sciences	Adherence to data management plan will be monitored and built into the Final Report score, which may be taken into account for future proposals Research data that supports publications must be stored for 10 years
British Heart Foundation	Medical research	"Safeguards should be in place to respect the confidentiality of patients, while also ensuring that medical researchers can gain access to patient data within a secure environment."
Cancer Research UK	Cancer research	Any applicants who consider that the data arising from their proposal will not be suitable for sharing must provide clear reasons for not making it available
EC (Horizon 2020)	Various disciplines	Running an Open Research Data Pilot, encouraging researchers to share data openly. Zenodo is the recommended repository where discipline-specific and institutional repositories are not available.
ERC	Various disciplines	Research data should be shared. Zenodo is the recommended repository where discipline-specific and institutional repositories are not available.
EPSRC	Engineering and physical sciences	EPSRC has the strictest policy on research data sharing. We have prepared separate, dedicated guidelines to help you achieve compliance with the EPSRC expectations.
ESRC	Economic and social sciences	Research data has to be deposited within three months of the end of the award. ESRC UK Data Service (UKDS) is the approved data repository for ESRC-funded research.



FUNDERS' POLICIES



Research funders' open access policies

Search

Funders' Name or Country keywords:

mrc

[Advanced Search](#)

Search

Clear

<http://www.sherpa.ac.uk/juliet/>



FUNDERS' POLICIES

Data Archiving Policy

	Whether to Archive: * Requires deposition in Open Access archives
	What to Archive: * Research data
	When to Archive: * Within a reasonable time after completion of the work
	Where to Archive: * In appropriate institutional repositories (Optional) * In appropriate disciplinary repositories (Optional) * In named repositories... (Optional) * UK Data Archive (Optional)
	General Conditions: * Effective for all new projects from 01-Jan-2006 * Pre-documented exclusivity periods allowed, on primary and secondary data, in data sharing plans * Access policies and practises for new and existing MRC funded data collections must be transparent, equitable and practicable * Must submit data management plan with grant proposal
	Policy Links: * RCUK Common Principles on Data Policy * MRC policy on research data-sharing

JULIET information is accurate to the best of our knowledge, but sho

JULIET information is accurate to the best of our knowledge' but sho

<http://www.sherpa.ac.uk/juliet/>



TRAINING AND WORKSHOPS

Research Data Management

Home Open Access Data Management Guide Support Data Repository Research Data Policies Open Data Team Events FAQ

Support

Research Data Management

- Support
 - Resources and support at Cambridge
 - External support
 - Research Data Management Training Request Form
- Open Access
- Data Management Guide
- Data Repository
- Research Data Policies
- Open Data Team
- Events
- FAQ



Training and support

There is plenty of resources available that will allow you to get a better understanding of various aspects of research data management and data sharing:

- [Training and support available at the University of Cambridge](#)
- [External resources](#)
- [Request a training](#) - personalised training delivered face to face at

Related links

- [Open Data lunchtime information sessions - register now](#)

Events

- 16 APR** Open Data lunchtime session - Central Cambridge
- 17 APR** Open Data @Computer Lab - West Cambridge
- 20 APR** Open Data lunchtime session for students - Central Cambridge
- 20 APR** Human-Data Interaction
- 28 APR** Open Data @Faculty of Mathematics - West Cambridge



TRAINING AND WORKSHOPS

Request one today

Research Data Management

Support

- > [Resources and support at Cambridge](#)
- > [External support](#)
- > [Research Data Management Training Request Form](#)

Open Access

Data Management Guide

Data Repository

Research Data Policies

Open Data Team

Events

FAQ

Please fill in the form below and we will get back to you as soon as possible to arrange a training session.

Possible days for training *

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Please indicate all possible options

AM or PM? *

- AM
- PM

Please tick all possible

Tick topics that you would like us to cover *

- Data Management Plans
- Data Storage and Backup
- Data Organisation (file naming, data description)
- Data Deposition and Sharing
- Funder Requirements

Please tick all relevant



DATA REPOSITORY

Research Data Management

Home Open Access Data Management Guide Support Data Repository Research Data Policies Open Data Team Events FAQ

Research Data Management

Data Repository

- > Upload your data
- Open Access
- Data Management Guide
- Support
- Research Data Policies
- Open Data Team
- Events
- FAQ

Data Repository




Image from Wikieditor243, CC BY-SA

What shall I do to make my data available?

To make your data available first make sure that it is properly organised and labelled, and then simply upload your data to a data repository. You can:

- upload your data to the University repository

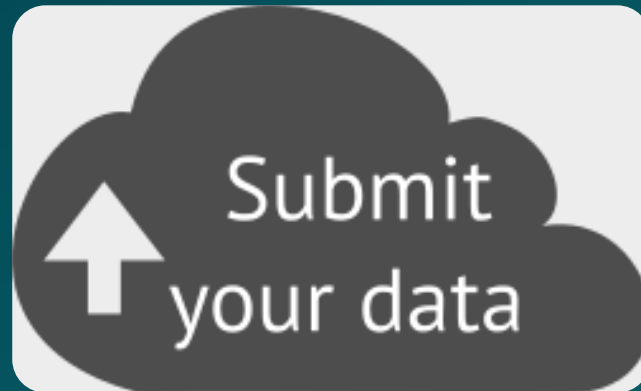
Related links

- University data repository
- DSpace data deposition policy
- Upload your data to the University repository
- Zenodo - general data repository
- ESRC data repository
- NERC data repository
- Funder policies

Events



DATA REPOSITORY



University of Cambridge data repository

<http://www.data.cam.ac.uk/upload>



<http://www.data.cam.ac.uk/upload>

Home » Add content

Create a new data submission

Data submission form

We accept depositions up to 20GB. If your dataset exceeds 20GB, please [contact us](#). If you have any problems, please [contact us](#).

I understand and agree to the terms and conditions *

Please confirm if you have read and accepted the data deposition [terms and conditions](#)

Title *

List all authors of this dataset *

Description of your data *



<http://www.data.cam.ac.uk/upload>

DSPACE FILE/S

If your file format is currently not accepted, please [contact us](#) and we will enable it for you.

Add a new file *

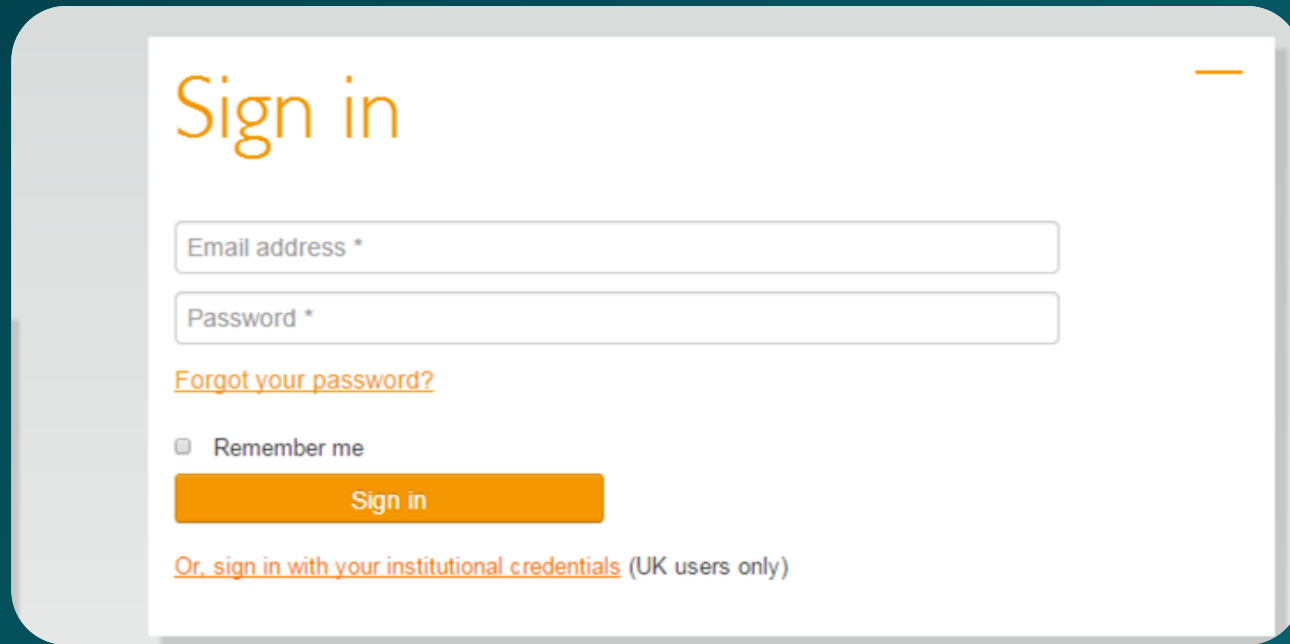
Drop files here or click *Browse* below.

Browse Upload

Files must be less than 20 GB.

Allowed file types: bmp c cae cif cpp csv doc docx jpeg opj mp3 mp4 mpeg mpeg4 pdf png ppt pptx rar tif tar tiff txt xls xlsx zip

DATA MANAGEMENT PLAN

A screenshot of a 'Sign in' form. The form is white with rounded corners and is set against a dark teal background. It features a title 'Sign in' in a large, orange, sans-serif font. Below the title are two input fields: 'Email address *' and 'Password *'. A link for 'Forgot your password?' is positioned below the password field. There is a checkbox labeled 'Remember me' and an orange 'Sign in' button. At the bottom, there is a link for 'Or, sign in with your institutional credentials (UK users only)'.

Sign in

Email address *

Password *

[Forgot your password?](#)

Remember me

Sign in

[Or, sign in with your institutional credentials \(UK users only\)](#)

<https://dmponline.dcc.ac.uk/>

DATA MANAGEMENT PLAN



DMP Online is a data management planning tool provided by the Digital Curation Centre.


Which organisation would you like to sign in with?

Start typing the name of your organisation (e.g. Anywhere College) in the search box, and options will appear below:

<https://dmponline.dcc.ac.uk/>

DATA MANAGEMENT PLAN


Raven

Login 

User-id:

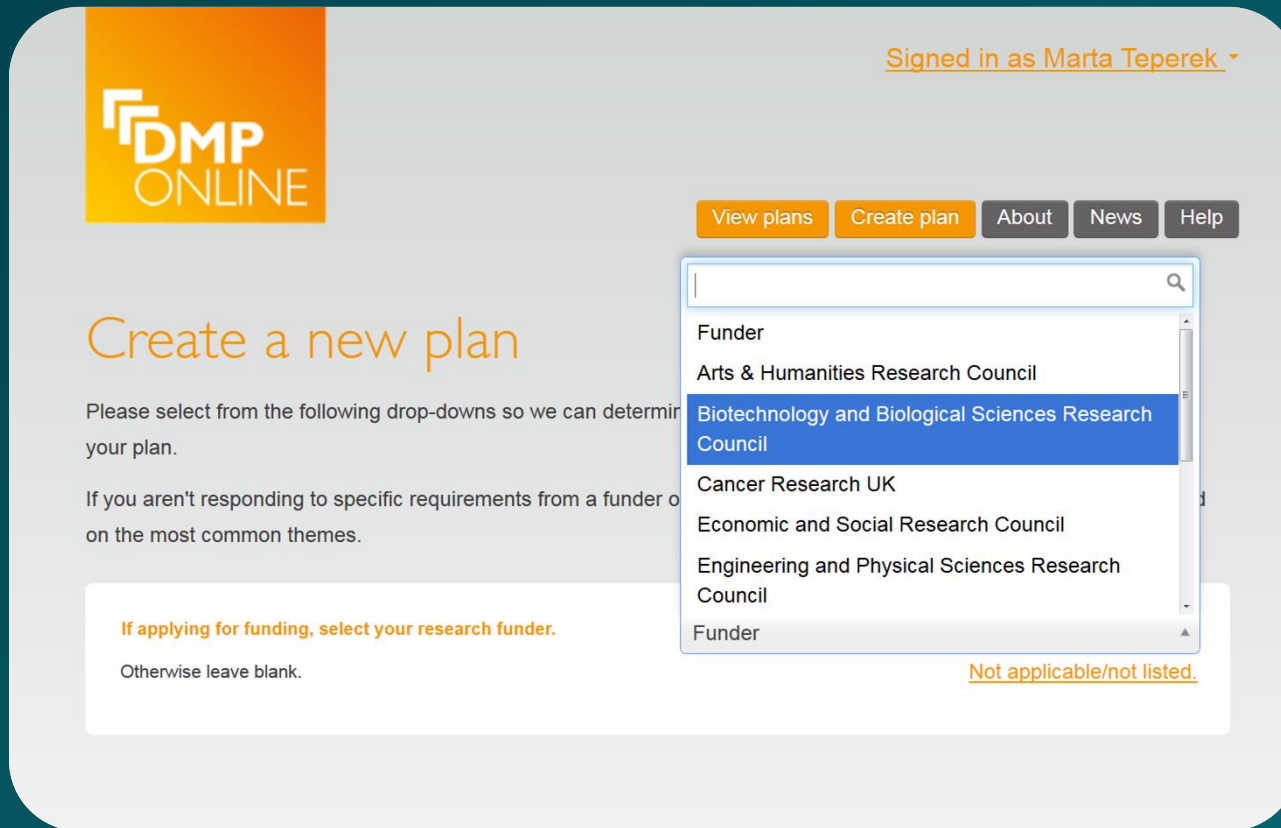
Password:

override login options for this session?

 [Help](#)

<https://dmponline.dcc.ac.uk/>

DATA MANAGEMENT PLAN



The screenshot shows the DMP ONLINE website interface. At the top right, it says "Signed in as Marta Teperek". Below the logo, there are navigation buttons: "View plans", "Create plan", "About", "News", and "Help". The main heading is "Create a new plan". Below this, there is a text block: "Please select from the following drop-downs so we can determine your plan. If you aren't responding to specific requirements from a funder or on the most common themes." Below this is a form field with a dropdown menu. The dropdown menu is open, showing a list of funders: "Funder", "Arts & Humanities Research Council", "Biotechnology and Biological Sciences Research Council", "Cancer Research UK", "Economic and Social Research Council", "Engineering and Physical Sciences Research Council", and "Funder". The "Biotechnology and Biological Sciences Research Council" option is highlighted. Below the dropdown menu, there is a link: "Not applicable/not listed."

<https://dmponline.dcc.ac.uk/>

DATA MANAGEMENT PLAN





My plan (BBSRC Template) 0/8 questions answered
approx. 25% of available space used

Plan details **BBSRC Data Sharing Plan** Share Export

Data areas and data types (1 question, 0 answered) +

Standards and metadata (1 question, 0 answered) -

Outline the standards and methodologies that will be adopted for data collection and management, and why these have been selected BBSRC Guidance +

B *I*    

Save

Not answered yet

Relationship to other data (1 question, 0 answered) +

<https://dmponline.dcc.ac.uk/>

THANK YOU

Enquiries about research data: info@data.cam.ac.uk

Enquiries about Open Access to publications: info@openaccess.cam.ac.uk



Follow us on Twitter: [@CamOpenData](https://twitter.com/CamOpenData)

Personal/sensitive data

- Consider data sensitivity before the start of your project (Data Management Plan)
- More information:
 - **Our website (University resources):**
 - <http://www.data.cam.ac.uk/sensitive-data>
 - **MRC guidelines:**
 - <http://www.mrc.ac.uk/documents/pdf/personal-information-in-medical-research/>
 - **ESRC consent form and anonymisation guide:**
 - <http://www.esrc.ac.uk/about-esrc/information/framework-for-research-ethics/consent-anonymisation.aspx>