

February 7, 2019

Data Management Planning: Two very important pages

Michele Gibney



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Data Management Planning: *Two very important pages*

Michele Gibney
Fulbright Specialist



Outline



What is data?



What is a data management plan (DMP)?



Why does it matter?



DMP Resources

[illegible]

COMMON MISCONCEPTIONS: FILE SIZES

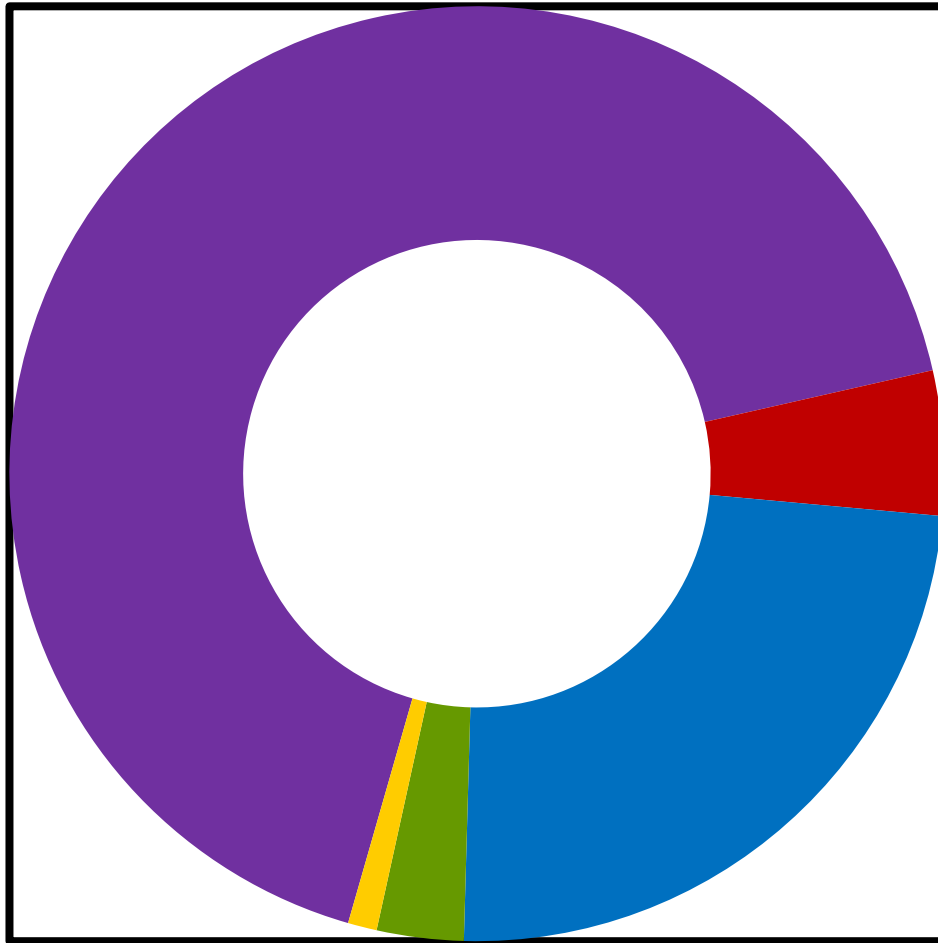
Myth: Huge



Reality: all sizes



AVERAGE DATA FILE SIZES



- < 500 KB
- 500 KB - 1 MB
- 1 MB - 100 MB
- 100 MB - 1 GB
- >1GB

*Compiled from a random sampling of 300 data sets in Figshare, Dryad, and Harvard's Dataverse.

FILE TYPES MYTH: ALL ARE NUMERIC

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Brown Co. Shut Down Period

PDF

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PDF

Lower Androscoggin River, Walter A. Lawrence

May, June, 1976								
Weekly Averages								
Date	Flow cfs	Temp. °C	pH	D.O. ppm	D.O. lbs/day	B.O.D. ppm	B.O.D. lbs/day	
May 6		9.5	6.8	10.9		2.5		
13		10.6	6.7	10.5		4.5		
20		12.0	6.4	10.2		3.7		
27		11.5	6.6	10.2		3.5		
May 31		17.0	6.9	8.5	213924	5.7	143455	
June 1		17.1	6.8	7.9	190889	2.0	48326	
2		17.1	6.9	8.1	189580	2.3	53830	
3		17.2	6.7	7.6	165443	3.1	67483	
4		17.9	6.8	7.6	156622	2.0	41216	
5		17.8	6.7	7.5	152243	2.2	44658	
Week Aver.	4180	17.4	6.8	7.9	178120	2.9	66490	
7		18.2	6.8	7.3	137049	1.8	33793	
8		19.4	6.9	6.9	125566	1.9	34576	
9		20.3	6.4	6.9	138585	2.0	38430	
10		20.2	6.8	6.7	119348	2.4	42751	
11		21.1	6.8	6.4	113694	2.3	40499	
12		21.0	7.0	6.5	106412	2.3	37653	
Week Aver.	3333	20.0	6.8	6.8	122280	2.1	37950	
14		20.1	6.8	6.8	109904	2.6	42022	
15		20.9	6.9	6.4	104427	2.9	47319	
16		21.9	6.7	5.8	89896	2.4	32697	
17		23.0	6.6	6.8	74000	2.3	13431	

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CEAT WATERSHED STUDY: SALMON LAKE AND MCGRATH POND

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A Water Shed Analysis Of Salmon Lake And Mcgrath Pond Implications For Water Quality And Land Use Management, Colby College

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Boat Launches, Colby College

File

EMF Files For Comparison, Colby College

	A	B	C	D	E	F	G	H	I
1	type	ident	lat	long	y_proj	x_proj	comment	display	symbol
2	WAYPOINT	1	44.51327	-69.7944	5198151	2344029	CRTD 17:5	3	18
3	WAYPOINT	2	44.51345	-69.7934	5198193	2344099	CRTD 17:5	3	18
4	WAYPOINT	3	44.51346	-69.7934	5198195	2344098	CRTD 18:0	3	18
5	WAYPOINT	4	44.51362	-69.7931	5198219	2344116	CRTD 18:0	3	18
6	WAYPOINT	5	44.51379	-69.7928	5198246	2344136	CRTD 18:1	3	18
7	WAYPOINT	6	44.51388	-69.7923	5198269	2344177	CRTD 18:1	3	18
8	WAYPOINT	7	44.51382	-69.7919	5198271	2344205	CRTD 18:2	3	18
9	WAYPOINT	8	44.51417	-69.7914	5198321	2344235	CRTD 18:2	3	18
10	WAYPOINT	9	44.51436	-69.7911	5198351	2344256	CRTD 18:2	3	18
11	WAYPOINT	10	44.51451	-69.7909	5198372	2344267	CRTD 18:3	3	18
12	WAYPOINT	11	44.51471	-69.7906	5198400	2344278	CRTD 18:3	3	18
13	WAYPOINT	12	44.51505	-69.7901	5198450	2344308	CRTD 18:4	3	18
14	WAYPOINT	13	44.51503	-69.7898	5198454	2344331	CRTD 18:4	3	18
15	WAYPOINT	014S	44.51512	-69.7897	5198468	2344339	CRTD 18:4	3	18
16	WAYPOINT	014E	44.52003	-69.7826	5199182	2344735	CRTD 18:5	3	18

FILE TYPES REALITY: A VARIETY OF FORMATS

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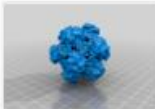
- Chemistry Department

Home > Chemistry Department > Chemistry Department 3-D Printable Objects > infectious_pathogens

INFECTIOUS PATHOGENS

header pathogens.gif Virus genomes are protected by an outer protein layer called a capsid or nucleocapsid. Marvel at nature's beauty and the ability to self-assemble structures at the nanometer scale. These models are for teaching and fun!


Switch ViewView Slideshow



Adenovirus

David J. Hall

Adenovirus, database # 2C6S Adenoviruses are medium-sized (90-100 nm), non-enveloped (without an outer lipid bilayer) icosahedral viruses with a double-stranded linear DNA genome. Adenoviruses are responsible for 5-10% of upper respiratory infections in children, and many infections in adults as well. The adenovirus is being tested as a gene therapy delivery vehicle as well as a treatment for a variety of cancers.



Dengue virus

David J. Hall

Dengue virus, database # 2C6S Dengue virus is a small, non-enveloped, spherical virus with a single-stranded RNA genome. It is caused by the dengue virus, which causes headache, muscle and joint pain, and in some cases, a severe, life-threatening dengue hemorrhagic fever. It is part of the flavivirus family.

DIT

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Dublin Institute of Technology

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VOICES

These audio recordings are a set of interviews with DIT educators, many of whom are now retired, and others who were heavily involved with the Institute at various stages of its development. Many of these people were members of staff as the Institute went through a period of great change, moving from a group of autonomous technical colleges to one of the largest third level educational institutions in Ireland. This change was also mirrored by changes in Irish society, pedagogy and educational practice. This oral history project endeavours to capture the experiences and thoughts of those who spent and are spending their working lives improving and developing the educational system in Ireland. The interviews were recorded by Maurice O'Keeffe of Irish Life and Lore in 2010. www.irishlifeandlore.com


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Tom Ambrose



Liam Arundel



Eileen Brennan



Monica Bonine

Audio file 1 of 13 (10919 KB)

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Audio file 2 of 13 (1320 KB)

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Audio file 3 of 13 (22987 KB)

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Audio file 4 of 13 (6100 KB)

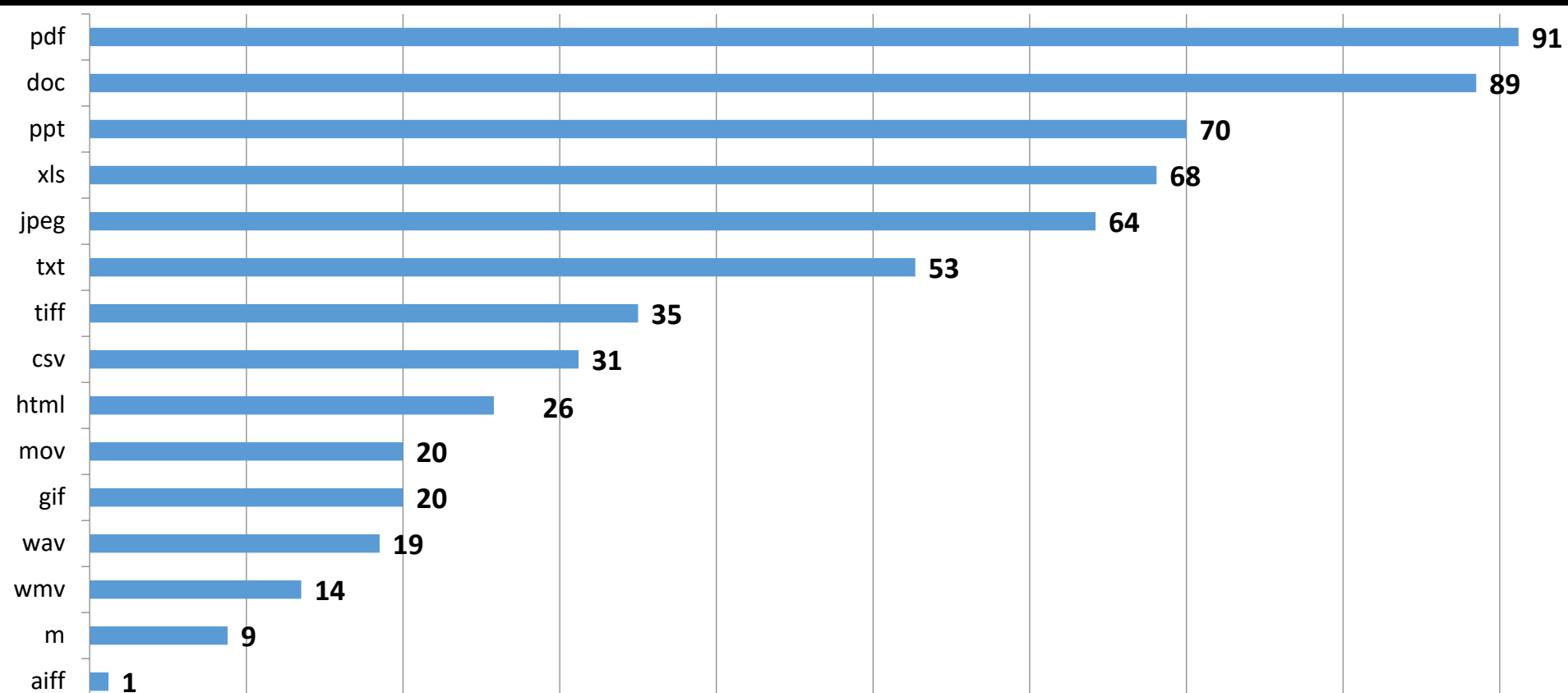
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Audio file 5 of 13 (4094 KB)

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COMMON FILE EXTENSIONS

“Please select, and/or list, the file extensions you have produced, or anticipate producing, with your research.”



What is a data management plan (DMP)?



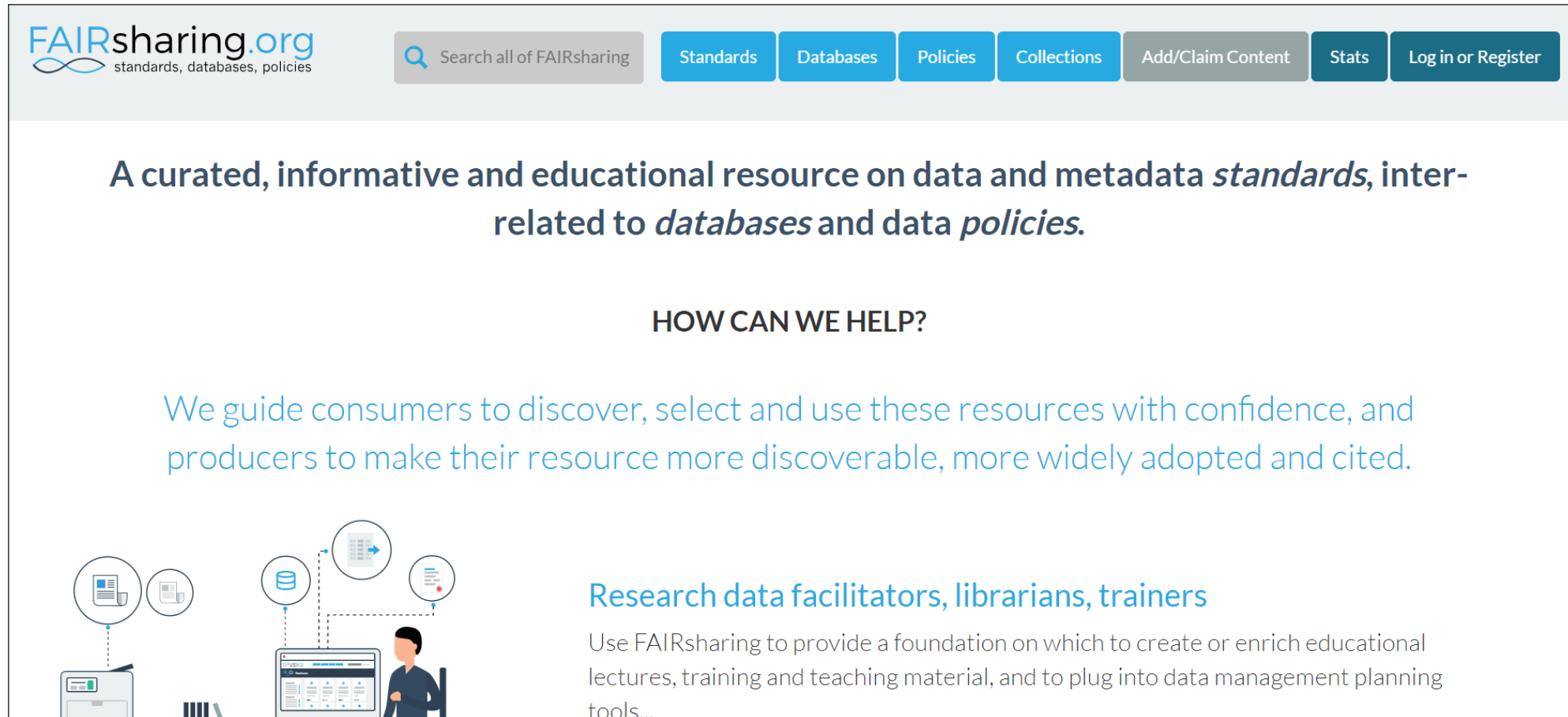
1. Description of data



What is a DMP?

2. Metadata standards

<https://fairsharing.org/>



The screenshot shows the FAIRsharing.org website. At the top is a navigation bar with the logo 'FAIRsharing.org' (standards, databases, policies), a search bar 'Search all of FAIRsharing', and buttons for 'Standards', 'Databases', 'Policies', 'Collections', 'Add/Claim Content', 'Stats', and 'Log in or Register'. The main content area features a mission statement: 'A curated, informative and educational resource on data and metadata *standards*, inter-related to *databases* and data *policies*.' Below this is the heading 'HOW CAN WE HELP?' followed by the text: 'We guide consumers to discover, select and use these resources with confidence, and producers to make their resource more discoverable, more widely adopted and cited.' At the bottom, there is an illustration of a person at a computer with various data and document icons, and the text: 'Research data facilitators, librarians, trainers' and 'Use FAIRsharing to provide a foundation on which to create or enrich educational lectures, training and teaching material, and to plug into data management planning tools...'.

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standards, databases, policies

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A curated, informative and educational resource on data and metadata *standards*, inter-related to *databases* and data *policies*.

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Research data facilitators, librarians, trainers

Use FAIRsharing to provide a foundation on which to create or enrich educational lectures, training and teaching material, and to plug into data management planning tools...

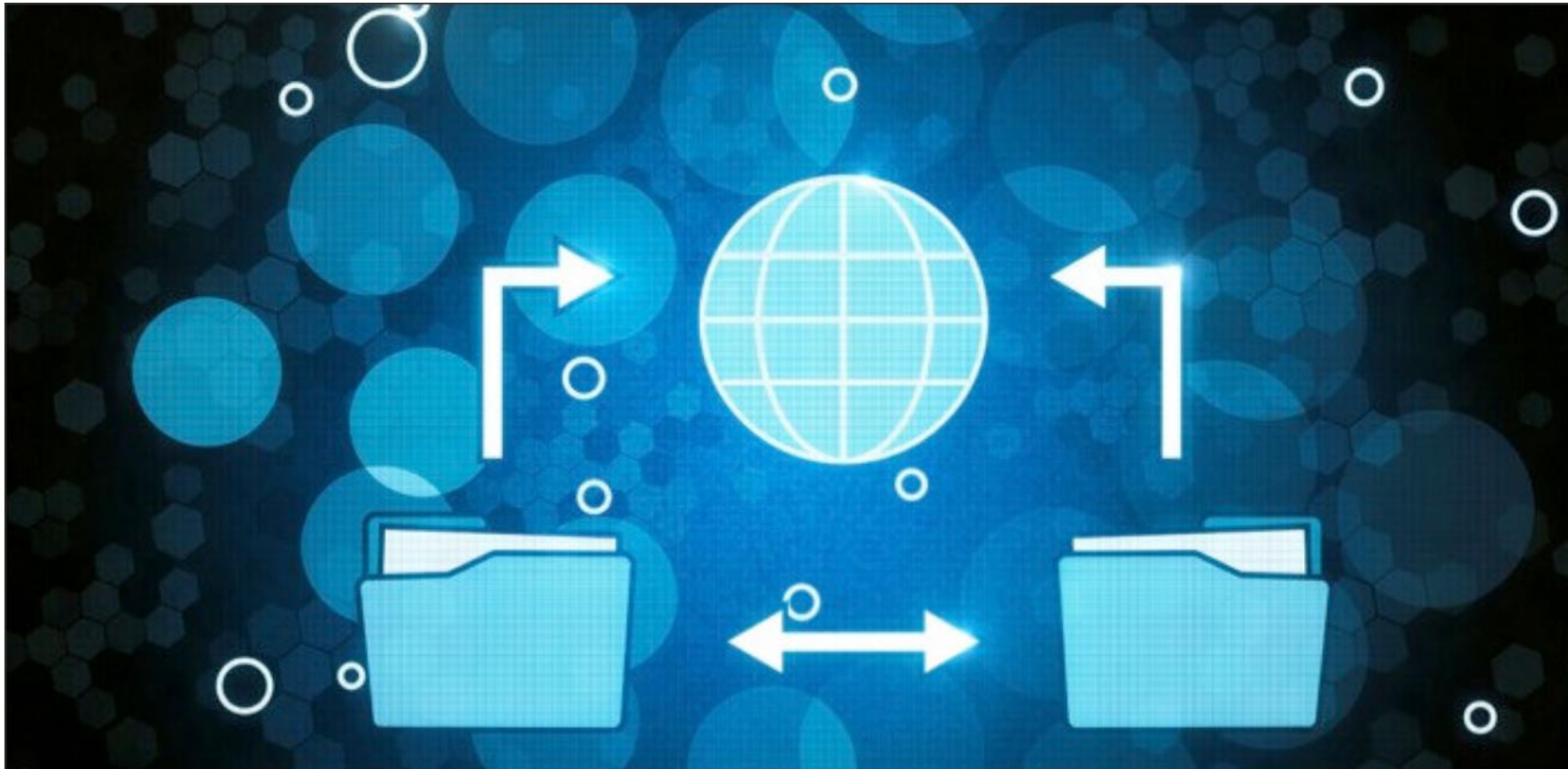
What is a DMP?

3. Discussion of security and ethics



What is a DMP?

4. Plans for access, sharing, and reuse



What is a DMP?

5. Long-term management and preservation

The 3-2-1 Rule



Why does it matter?

- Grant funding requirements
- Journals requiring the research data alongside the article/study
 - Increase impact and visibility
- Reproducibility
 - Maximize transparency, accountability and scrutiny of research findings
- Enable reuse and new research projects

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Shaping the future of research

'Plan S' Making Open Access a Reality by 2020

A plan to decisively advance towards the Open Access of scholarly publishing by 2020 was the topic of discussion at a meeting yesterday between Carlos Moedas, European Commissioner for Research, Science and Innovation, and Marc Schiltz, President of Science Europe. The plan, currently called 'Plan S', was jointly developed by Science Europe, a group of heads of national research funding organisations, and Robert-Jan Smits, Senior Advisor on Open Access within the European Political Strategy Centre at the European Commission. It foresees that from 1 January 2020, all scholarly publications resulting from public research funding must be published in Open Access journals or on Open Access platforms.

 [Communication on 'Plan S'](#)

<https://www.scienceeurope.org/making-open-access-a-reality-by-2020/>


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on the EU institutions to seek a balanced approach to data sharing in the PSI Directive... [read more](#)

(19/10/18) Science Europe is currently recruiting a new Senior Policy Officer... [read more](#)

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<http://v2.sherpa.ac.uk/juliet/>

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Research Funders' Open Access Policies

Sherpa Juliet enables researchers and librarians to see funders' open access policies.

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SHERPA Juliet is a searchable database and single focal point of up-to-date information concerning funders' policies and their requirements on open access, publication and data archiving. [Read more...](#)


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Browse Data Sharing Requirements by Federal Agency


This community resource for tracking, comparing, and understanding both current and future U.S. federal funder research data sharing policies is a joint project of SPARC & Johns Hopkins University Libraries. Click the icons below to select up to three agencies to view or compare. Click [here to download](#) the full data set.


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ASPR


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CDC


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National Institutes of Health

Funder Information

Funder Name	National Institutes of Health (NIH) [English]
URL	http://www.nih.gov/ [English]
Identifiers	FundRef DOI: 10.13039/1000000002
Country	United States of America

<http://v2.sherpa.ac.uk/id/funder/9>

Requires Open Access Archiving	
Requirement	National Institutes of Health requires Open Access Archiving
What to archive	Peer-reviewed publications
Publication version	Author's final version
When to archive	When accepted for publication
Permitted Embargo	12 months
Where to archive	Named repository
Named Repositories	PubMed Central http://www.ncbi.nlm.nih.gov/pmc/ (Required)

Requires Open Data Archiving	
Requirement	National Institutes of Health requires Open Data Archiving
Types of Data	Research Data Supporting Documentation
When to archive	Within a reasonable time after completion of the work
Where to archive	Any appropriate repository (Required)
Named Repositories	NIH Databases http://www.nlm.nih.gov/databases/ (Example)
Effective for all new projects from	1 October 2003
Special Conditions	Applies to applications seeking \$500,000 plus in direct costs within any year of the project period, Include a data sharing plan within application, Sharing of data no later than publication of final results
Policy links	NIH Data Sharing Policy [Policy]: http://grants.nih.gov/grants/policy/data_sharing/ Implementation Guidance [Guide/FAQ]: http://grants.nih.gov/grants/policy/data_sharing/data_sharing_guidance.htm

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DR. DOLITTLE PROJECT: A FRAMEWORK FOR CLASSIFICATION AND UNDERSTANDING OF ANIMAL VOCALIZATIONS

Dr. Dolittle Project: A Framework for Classification and Understanding of Animal Vocalizations

Granting Agency: National Science Foundation
Award number: 0326395
Investigators:

- ▣ Michael T. Johnson
- ▣ Michael Darre
- ▣ Anne Savage
- ▣ Peter Scheifele
- ▣ Elizabeth von Muggenthaler

Award date: October 1, 2003 – September 30, 2009
NSF programs: Information Technology Research; ITR Medium (Group) Grants; Human-Centered Computing; Collaborative Systems

Abstract

The fundamental goal of this research is to develop a broadly useable framework for pattern analysis and classification of animal vocalizations, by integrating successful models and ideas from the field of speech processing and recognition into bioacoustics. Current approaches to automated methods for analyzing and classifying animal vocalizations are still significantly behind the capabilities that exist in the field of human speech processing, and cross-fertilization with other fields offers a tremendous opportunity for making advancements in this area. The PI and his team plan to employ an innovative cross-disciplinary strategy to develop a framework based on robust feature analysis and selection and Hidden Markov Model classification, with additional expertise drawn from such fields as psychology, biology, linguistics, machine learning, and signal processing, for the purpose of making significant advancements to the current state-of-the-art in bioacoustics algorithms and animal communications research. The algorithms developed through this process will be applied to a wide range of important tasks, including automatic vocalization classification and labeling, individual identification, call type classification, behavioral-vocalization correlations, stress analysis, language

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ROBERT B. GORDON NATURAL AREA FOR ENVIRONMENTAL STUDIES

The Robert B. Gordon Natural Area is a nearly hundred-acre parcel of eastern deciduous woodland in the Plum Run watershed on the South Campus of West Chester University. Preservation of any natural site is of invaluable importance to sustain the vitality and stability of the environment. The Gordon Natural Area is of particular importance because its functions are so comprehensive.

The Gordon Natural Area not only supports a great range of life including plants, fungi, invertebrates, and vertebrates, but also serves as a "natural laboratory" for various environmentally-related courses at West Chester University. The Gordon Natural Area is an integral aspect of both the environment and of education in Chester County. We must strive to maintain this ecological sanctuary so that its many attributes are not lost to the pressures of development.

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[Deer and Non-native Invasive Plant Impact Study](#)

[East Bradford Binarian Forest Project](#)

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FLATHEAD LAKE SEISMIC SURVEY

This reflection seismic survey of Flathead Lake was conducted in August of 1970 and used the University of Montana research station at Yellow Bay, Montana, as a base of operations (another reflection seismic survey was conducted in 1980). The principal investigators of the 1970 survey were Richard Wold and Gary Crosby. The Overview book gives a summary of the 1970 data acquisition, the use of the data in paper form from 1970 to 2005, the use of the data in digital form from 2006 to 2013, and the development of this archive. Scans of the survey line basemap, the seismic and bathymetry sections, and the handwritten notes and cross sections, and the digital seismic trace data are in the respective books of this collection.

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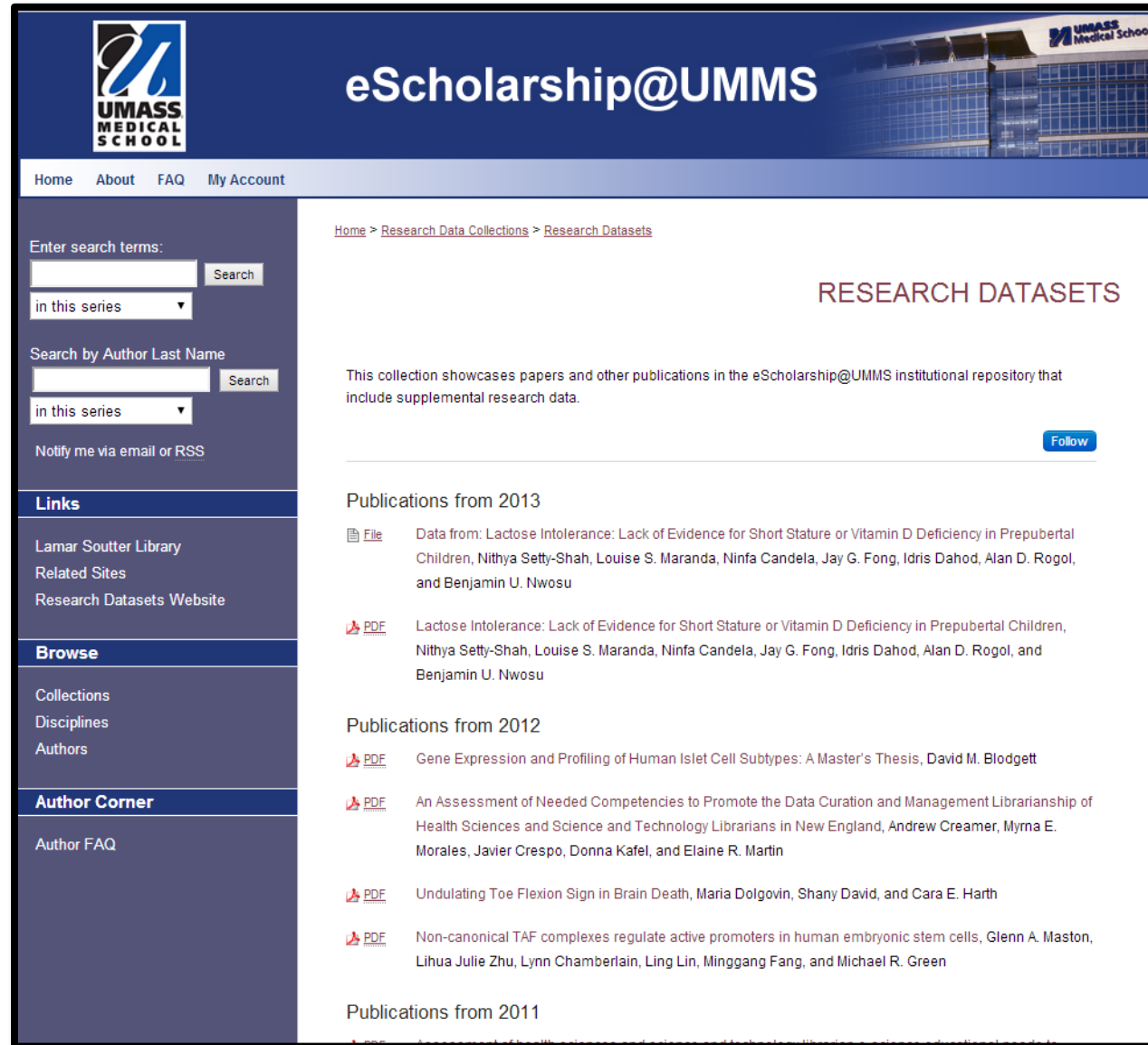


A. Overview of the Flathead Lake Seismic Survey

Robert W. Lankston

This book contains a summary of the key phases of acquisition and use of reflection seismic data that were collected in 1970 in Flathead Lake and the evolution of the archive of the project. Appendices are keyed to the respective items in this collection, i.e., there is no Appendix A.

ARTICLES WITH DATA UPLOADED AS “ADDITIONAL FILES”



The screenshot displays the eScholarship@UMMS website interface. The header features the UMMS Medical School logo and the site name. A navigation bar includes links for Home, About, FAQ, and My Account. The left sidebar contains search filters, a 'Links' section with Lamar Soutter Library, Related Sites, and Research Datasets Website, a 'Browse' section with Collections, Disciplines, and Authors, and an 'Author Corner' with an Author FAQ link. The main content area is titled 'RESEARCH DATASETS' and includes a description of the collection, a 'Follow' button, and lists of publications from 2013, 2012, and 2011. Each publication entry includes a file icon, a PDF icon, and the title and authors.

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- [PDF](#) Lactose Intolerance: Lack of Evidence for Short Stature or Vitamin D Deficiency in Prepubertal Children, Nithya Setty-Shah, Louise S. Maranda, Ninfa Candela, Jay G. Fong, Idris Dahod, Alan D. Rogol, and Benjamin U. Nwosu


Publications from 2012

- [PDF](#) Gene Expression and Profiling of Human Islet Cell Subtypes: A Master's Thesis, David M. Blodgett
- [PDF](#) An Assessment of Needed Competencies to Promote the Data Curation and Management Librarianship of Health Sciences and Science and Technology Librarians in New England, Andrew Creamer, Myrna E. Morales, Javier Crespo, Donna Kafel, and Elaine R. Martin
- [PDF](#) Undulating Toe Flexion Sign in Brain Death, Maria Dolgovin, Shany David, and Cara E. Harth
- [PDF](#) Non-canonical TAF complexes regulate active promoters in human embryonic stem cells, Glenn A. Maston, Lihua Julie Zhu, Lynn Chamberlain, Ling Lin, Minggang Fang, and Michael R. Green

Publications from 2011

- [PDF](#) Assessment of Health and Science Librarianship and Technology Librarianship in New England, Andrew Creamer, Myrna E. Morales, Javier Crespo, Donna Kafel, and Elaine R. Martin

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SOCIOLOGY DATASETS

Canadian Fertility Survey, 1984

[T.R. Balakrishnan](#), *The University of Western Ontario*
[Karol J. Krotki](#), *University of Alberta*
[Evelyne Lapierre-Adamcyk](#), *Université de Montréal*

Document Type
Dataset

Publication Date
8-1988

Survey Date(s)
1984

File Type
Microdata

File Size
3,790 kb

Number of Variables
477

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DATA COLLECTIONS

Multilayered thin film structures, multiferroic tunnelling junction

[Zhenxiang Cheng](#), *University of Wollongong*

Date range
2010 - 2012

Description
Spintronics provides the physical concepts behind the next generation of spin-based electronics. Spin manipulation is the most crucial technology required for the realisation of spin-based quantum information processing. The dataset contains machine generated files of documents and images resulting from experiments using a variety of machines used to obtain mechanical, electrical and optical measurements. The measurement of the manipulation shows magnetic properties and conductivities of the thin films and junctions.

For Codes
0204 CONDENSED MATTER PHYSICS

Keywords
multiferroics, tunnelling, junctions, spintronics, multilayer, thin films, spin

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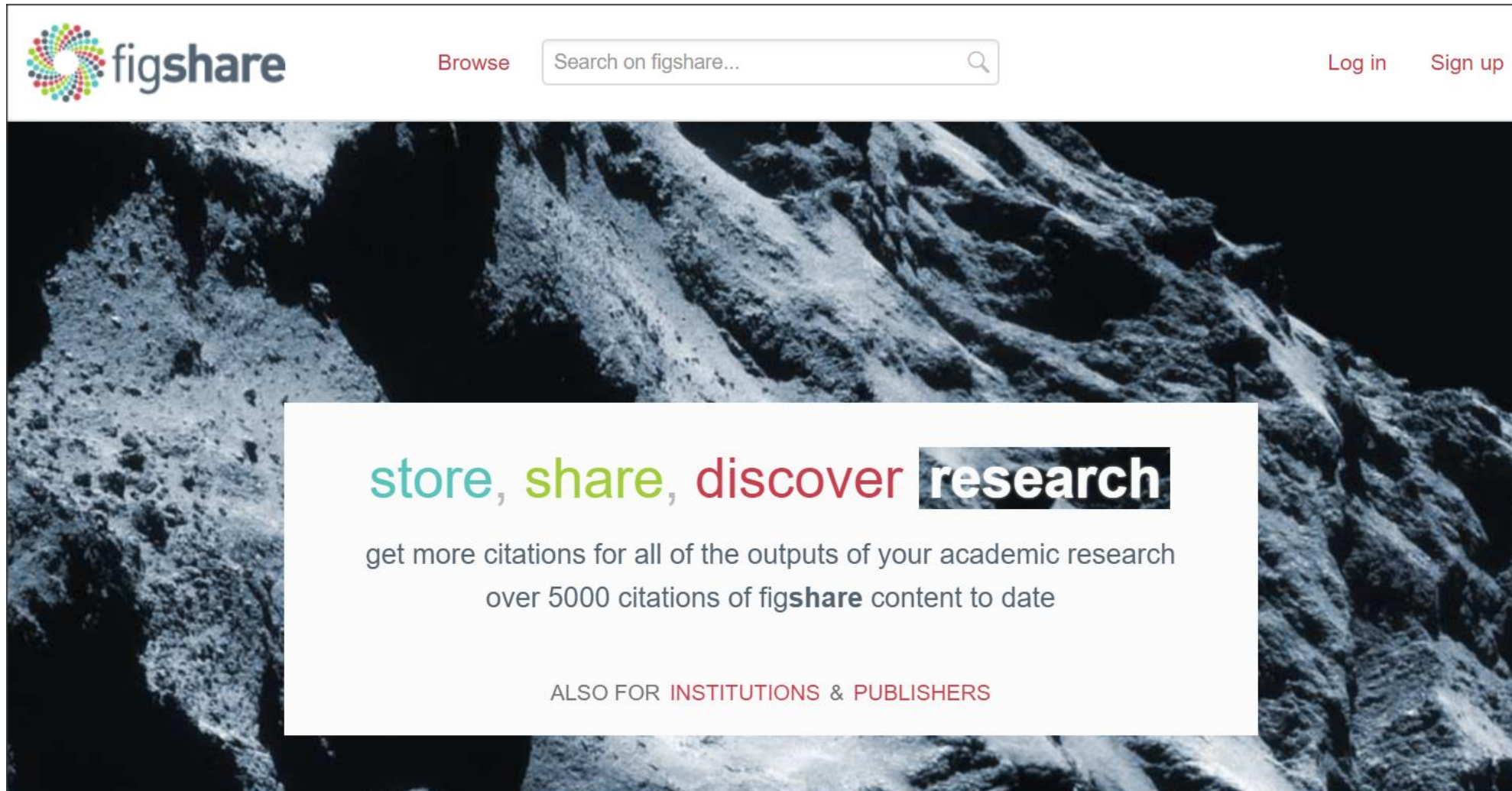
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<https://figshare.com/>

The image shows the top section of the Figshare website. At the top left is the Figshare logo, which consists of a colorful circular icon made of dots followed by the word "figshare" in a sans-serif font. To the right of the logo is a "Browse" link in red. Further right is a search bar with the placeholder text "Search on figshare..." and a magnifying glass icon. To the right of the search bar are "Log in" and "Sign up" links in red. Below the header is a large banner image showing a close-up of a rocky, textured surface. Overlaid on the bottom half of the banner is a white rectangular box containing text. The text in the box reads: "store, share, discover research" where "store" is teal, "share" is green, "discover" is red, and "research" is white on a black background. Below this is the text "get more citations for all of the outputs of your academic research over 5000 citations of figshare content to date". At the bottom of the box is the text "ALSO FOR INSTITUTIONS & PUBLISHERS" in red.

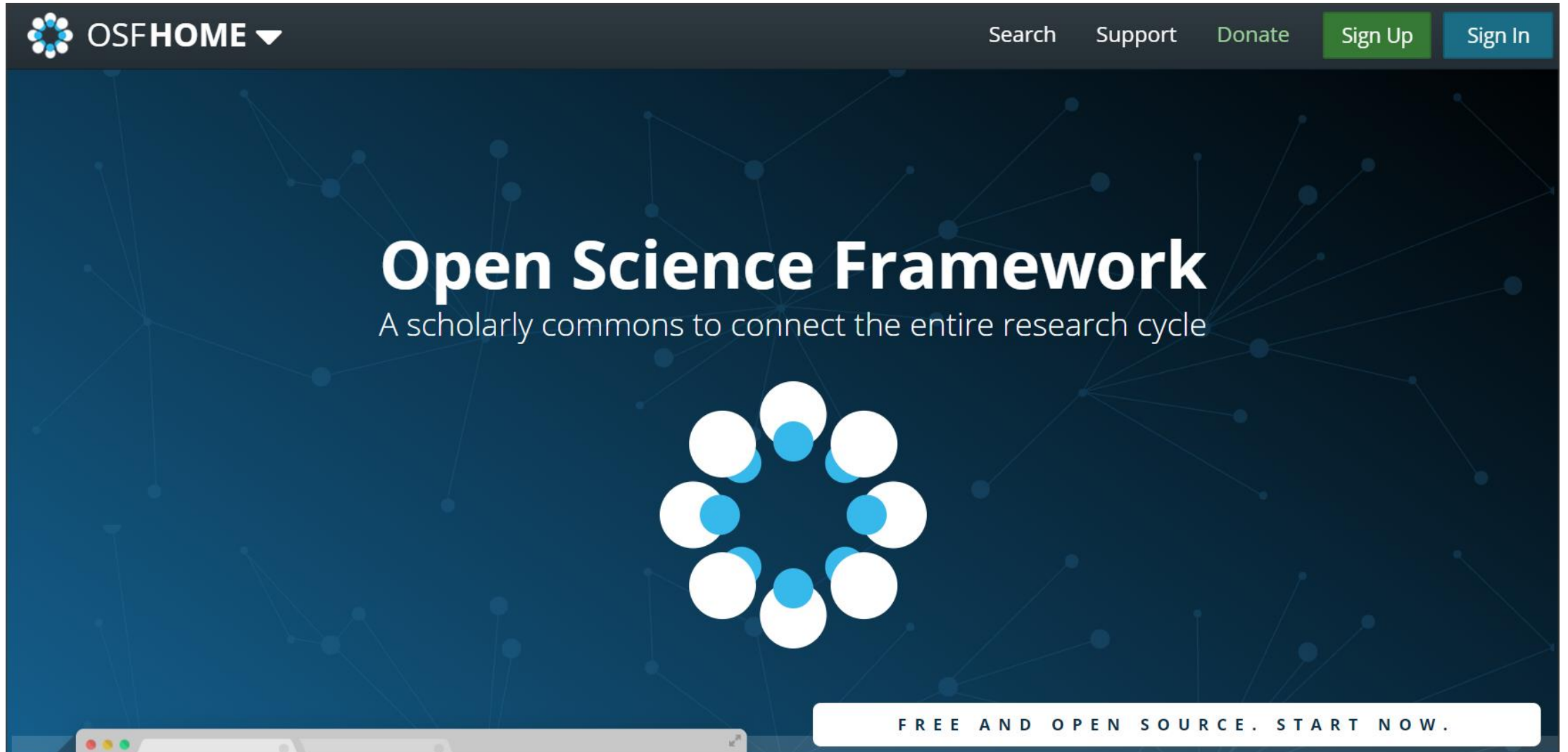
store, share, discover **research**

get more citations for all of the outputs of your academic research
over 5000 citations of figshare content to date

ALSO FOR INSTITUTIONS & PUBLISHERS

Grant Compliance

<https://osf.io/>



DMP Resources

<https://dmptool.org/>

[Learn](#) ▼ [Sign in](#) ▼ [Language](#) ▼



Welcome to the DMPTool

Create data management plans that meet institutional and funder requirements.

[Get started](#)



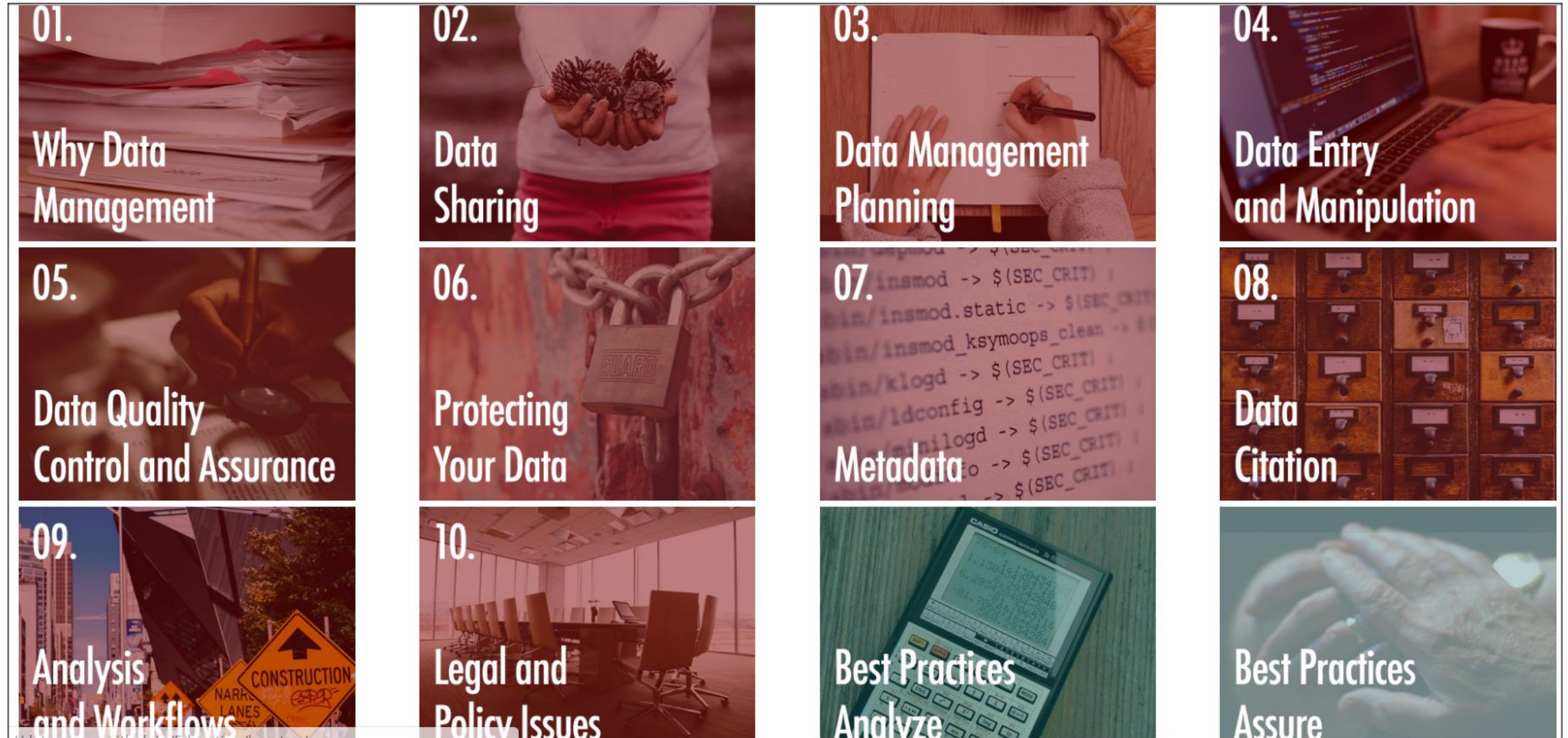
DMP Resources

https://www.scienceeurope.org/wp-content/uploads/2018/12/SE_RDM_Practical_Guide_Final.pdf



DMP Resources

<https://dataoneorg.github.io/Education/>



DMP Resources

- [Purdue Data Management Plan Self-Assessment Questionnaire](#)
 - A document with detailed questions to guide investigators through the data management planning process.
- [MIT Data Management Planning Guide](#)
 - MIT provides a list of questions to consider when formulating a data management plan.
- [Example of NIH Data Sharing Plans \(1\)](#)
 - Three short examples of data-sharing plans from the NIH website.
- [Example of NIH Data Sharing Plans \(2\)](#)
 - Downloads a more extensive sample data sharing plan from NIH.

Questions?