



The **Reuse Factor** and the future of credit for research

@markhahnel
@figshare

What is figshare?



A **cloud based** research data management system where you can:



Manage your research outputs privately and securely



Make your research outputs citable, sharable, discoverable





discoverable

- Secure and accessible
- Easy to manage your research data
 - 1GB private space
 - Unlimited public space



shareable

- Publish your negative data
- Quick and simple upload
- All formats of research accepted



citable

- All published research is citable
- Cloud based service
- Always available





DataCite

Helping you to find,
access, and reuse data

10 most popular datasets in February

Published by Jan Brase on 5 March 2013 - 4:32pm

Following the success of publishing the most resolved datasets of January, we present you the

10 most popular datasets of February 2013, registered by DataCite:

- *Number 1: 4226 resolutions*

GenoCAD Training Set I. (2013)

Jean Peccoud, Laura Adam, Mandy Wilson

<http://dx.doi.org/10.6084/m9.figshare.153827>

- *Number 2: 1863 resolutions*

Introduction to the UCSC Genome Browser. (2012)

Mary Mangan.

<http://dx.doi.org/10.6084/m9.figshare.96258>

- *Number 3: 1560 resolutions*

GenoCAD Legacy Grammars. (2013)

Jean Peccoud, Michael Czar, Yizhi Cai.

<http://dx.doi.org/10.6084/m9.figshare.157107>

THE DATA GAP

A survey of more than 1,300 US scientists in 2010 showed an appetite for sharing data but significant hurdles that kept many from doing it.

67%

Said lack of access to others' data is a major impediment to scientific progress.

39%

Said their organization has an established process for long-term data storage.

22%

Said their organization or project provides funds for long-term data management.

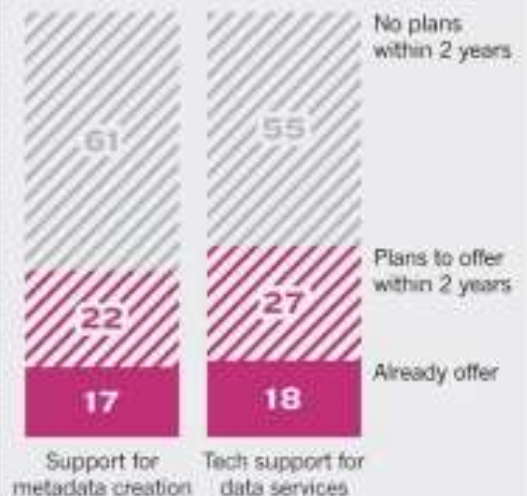
84%

Scientists who said that they would use other researchers' data sets if they were easily available.

36%

Scientists who said that others can access their data easily.

A survey of US research universities showed that many libraries are gearing up to provide data services.



13 January 2013: "National Science Foundation's Merit Review Criteria: Review and Revisions"

Biographical Sketch(es), has been revised to rename the "Publications" section to "Products" and amend terminology and instructions accordingly.

“Investigators are expected to **share with other researchers**, at no more than incremental cost and within a reasonable time, **the primary data**, samples, physical collections and **other supporting materials** created or gathered in the course of work under NSF grants”



http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001/aag_6.jsp#VID4

“NIH expects the **timely release and sharing of data** to be no later than the acceptance for publication of the main findings from the final dataset.”



http://grants.nih.gov/grants/policy/data_sharing/data_sharing_guidance.htm#time

“NEH is committed to **timely and rapid data distribution.**”

http://www.neh.gov/files/grants/data_management_plans_2012.pdf



NATIONAL ENDOWMENT FOR THE
Humanities




“But taxpayers who are paying for that research will want to see something back. Directly – through open access to results and data. And indirectly – through making science work better for all of us.




































































































That’s why we will require open access to all publications stemming from EU-funded research. That’s why we will progressively open access to the research data, too. And why we’re asking national funding bodies to do the same.”

Neelie Kroes.

Vice President for the European Commission



 Full Coverage
  Partial Coverage
  No Coverage

	Policy Coverage		Policy Stipulations					Support Provided			
Research Funders	Published outputs	Data	Time limits	Data plan	Access/sharing	Long-term curation	Monitoring	Guidance	Repository	Data centre	Costs
AHRC											
BBSRC											
CRUK											
EPSRC											
ESRC											
MRC											
NERC											
STFC											
Wellcome Trust											

“Mark, I really need your data, it is important that your data gets published. When do you plan to come in? I need you to print out the excel files for all the expts that were used to generate the data in the figures for the paper”

-Prof. Sara Rankin 2013

Academics



What's in it for me?

Is it hard to use?

Will it take up my time?

What do the funders make me do?

I want my research to have more impact than anyone else's.

Institutions



How much data are we generating?

Where the hell is it?

How can we get our research re-used more than any others?

I want to out-perform other institutions in league tables.

IMPACT



Referencing: The reuse factor

Mark Hahnel

16 October 2013

The reference is not dead — it is exploding to encompass the full spectrum of research outputs from line

NATURE | COMMENT

PDF



Rights

Subject terms:

Scholarship: Beyond the paper

Jason Priem

Nature **495**, 437–440 (28 March 2013) | doi:10.1038/495437a

Published online 27 March 2013



PDF



Citation



Reprints



Rights & permissions



Article metrics

The journal and article are being superseded by algorithms that filter, rate and disseminate scholarship as it happens, argues Jason Priem.

Subject terms: [Communication](#) · [Policy](#) · [Publishing](#) · [Research management](#)

dataset

Data from: Is your phylogeny informative? Measuring the power of comparative methods

(2012) Boettiger, Carl; Coop, Graham; Ralph, Peter L. *Dryad Digital Repository*

[highly saved](#)[highly viewed](#)[discussed](#)

Regime shifts in ecology and evolution (PhD Dissertation)

(2012) Carl Boettiger *Figshare*

[discussed](#)[viewed](#)[discussed](#)

Ensemble Behavior from Individual Dynamics in Multispecies Forest Populations (Senior Thesis)

(2013) Carl Boettiger, David Huse, Sephen Pacala *Figshare*

[viewed](#)[discussed](#)[discussed](#)

Lab Notebook, 2012

(2013) Carl Boettiger *Figshare*

[discussed](#)[viewed](#)[discussed](#)

Stochastic impediments to biological diversification (IIASA Application)

(2013) Carl Boettiger *Figshare*

[viewed](#)

✕ Adaptive Dynamics: Branching Phenomena and the Canonical Equation (Junior Paper)

(2013) Carl Boettiger *Figshare*

[viewed](#)

Clonal Interference Models in Population Genetics (Junior Paper)

(2013) Carl Boettiger, David Huse *Figshare*

[viewed](#)

Data from: Fluctuation domains in adaptive evolution

(2012) Boettiger, Carl; Dushoff, Jonathan; Weitz, Joshua S. *Dryad Digital Repository*

[viewed](#)

Management for an uncertain world: robust decision theory in face of regime shifts (NSF Biology Postdoc Application)

(2013) Carl Boettiger *Figshare*

[viewed](#)

Articles **2,257**

Activity **8,385**

Journals **1**

Export articles

Save these filters as a report

API

Standard

Tiled

Condensed



Prevalence and use of Twitter among scholars
FigShare



World beer consumption & scientific productivity.
FigShare



Impostor Syndrome Lecture
FigShare



Assessing growth and use of OA resources from developing regions — the cases of Latin America and Africa
FigShare



The case for open preprints in biology
FigShare



Library publishing services: An investigation into open access publishing in academic libraries
FigShare



Difference between a systematic review and a literature review



Advancing Macroecology Using Informatics and Entropy Maximization (NSF Grant #0953694)
FigShare

Altmetric score of **36**

- Tweeted by **21**
- On **1** Facebook Pages
- Mentioned in **6** Google+ posts
- Blogged by **3**
- 28** readers on Mendeley
- 0** readers on Connotea
- 0** readers on CiteULike

Click for more details

Overview: Plum Metrics

Plum is building the next generation of research metrics for scholarly research.

Metrics are captured and correlated at the group / collection level (e.g., lab, department, museum, journal, etc.)

We categorize metrics into 5 separate types: Usage, Captures, Mentions, Social Media, and Citations. Examples of each type are:

- **Usage** - Downloads, views, book holdings, ILL, document delivery
- **Captures** - Favorites, bookmarks, saves, readers, groups, watchers
- **Mentions** - blog posts, news stories, Wikipedia articles, comments, reviews
- **Social media** - Tweets, +1's, likes, shares, ratings
- **Citations** - PubMed, Scopus, patents

We gather metrics around what we call artifacts. Artifacts are

Current List of Metrics

Below is a listing of the current type of metrics that Plum supports, and samples of p list is growing fast / stay tuned.





Metrics as of July 28, 2013

Type	Metric	Example Source(s)	Description
Usage	Abstract Views	dSpace, ePrints, PLoS	The number of viewed
Usage	Clicks	bit.ly, Facebook	The number of
Usage	Collaborators	GitHub	The number of
Usage	Downloads	Dryad, Figshare, Slideshare, Github	The number of
Usage	Figure Views	figshare, PLoS	The number of viewed

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

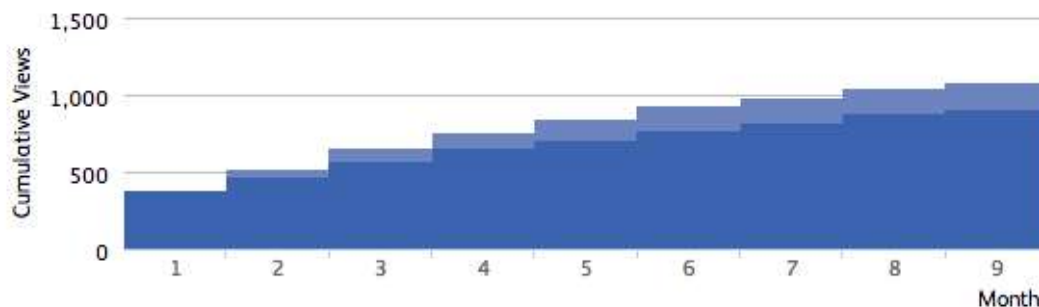
Genetic Testing for *TMEM15* Susceptibility in Sheep

Michael P. Heaton  , Theodore S. Kalbfleisch  , Du Carol G. Chitko-McKown, Gregory P. Harhay, Kreg A. Leyma

Article

About the Authors

Metrics



*Although we update our data on a daily basis, there may be a 48-hour delay before the most recent numbers are available. PMC data is posted on a monthly basis and will be made available once received.



1738

Cited ?



Citations of figshare DOIs in traditional journal publications.

Paper	Journal	Cited Where
doi:10.1371/journal.pone.0074770	PLOS ONE	Methods Section
doi: 10.7717/peerj.138.	PeerJ	Data Deposition Section
doi: 10.1021/sb400066m	ACS Synthetic Biology	Reference List
doi: 10.1111/2041-210X.12117	Methods in Ecology and Evolution	Methods Section
doi: 10.1021/jo401316a	The Journal of Organic Chemistry	Experimental Section

ORCID

Connecting Research
and Researchers



ORCID and DataCite Interoperability Network



figshare makes it easy to sync with your ORCID profile



your content that is publically available on
figshare and can be synced with ORCID
is listed below

<< SYNC ALL >>

Send all >>

<< Get all

or select individually below...

ORCID

CONNECT

you must connect and authorize with
ORCID before syncing





Score in context

Puts article in the top 5% of all articles ranked by attention

show more...

Mentioned by



Readers on



Prevalence and use of Twitter among scholars

Twitter

Facebook

Google+

Reddit

Demographics

Help

So far Altmetric has seen **465** tweets from **424** accounts with an upper bound of **577,881** combined followers.



Colfe's History Dept
@COLFEShistory

415 followers

Good reason4students2b on Twitter: more&more academics on it. World class experts, may 1day consider yr uni applictn! <http://t.co/jOaz95Pz>

06-Jan-2013



Zachary Fisher
@senseshaper

461 followers

And I only joined Twitter because I thought it had become a dying, unfashionable medium. Looks like I got that wrong. <http://t.co/3uukRy54>

06-Jan-2013



Laura Sherriff
@library_laura

820 followers

RT @SAGELibrarynews: Really interesting infographic: use of twitter is growing amongst academics <http://t.co/qGdbnMKw>

19-Dec-2012



Jisc
@Jisc

14,980 followers

See an infographic on prevalence and use of #Twitter amongst scholars <http://t.co/Lphr4nF3> (via @uncsils)

19-Dec-2012

“In the Web era, scholarship leaves footprints.”

- Jason Priem

Scholarship: Beyond the paper Jason Priem Nature 495, 437–440 (28 March 2013) doi:10.1038/495437

ImpactStory awarded \$300k NSF grant!



We're thrilled to announce that we've been awarded a \$297,500 **EAGER** grant from the National Science Foundation to study how automatically-gathered impact metrics can improve the reuse of research software. The grant (posted in its entirety on [figshare](#)) has three main components:

First, we'll improve ImpactStory's ability to track and display the impact of research software. We'll build tools to uncover where and how software is downloaded, installed, extended, and used; we'll also mine the research literature to find how software is being reused to make new studies possible. We'll present all this impact information in an easy-to-understand dashboard that researchers can share.

Thanks for your time.

Contact figshare

figshare.com

info@figshare.com

@figshare

facebook.com/figshare

Contact Presenter

Mark Hahnel

mark@figshare.com

@markhahnel