

Research Data
Repository Launch
Event

5th June 2019



Agenda

1. **Introduction:** June Hedges, Head of Liaison and Support Services UCL Library Services – 5 minutes
2. **Open Science Presentation:** Dr Paul Ayris, Pro Vice Provost Library Services – 10 Minutes
3. **Data and Analysis in the Context of AI:** Professor Geraint Rees, Dean of the UCL Faculty of Life Sciences - 5 Minutes
4. **Sharing and Reusing Qualitative Data:** Dr Rebecca O'Connell, Sociology of Food and Families – 10 minutes
5. **Introduction to Figshare:** Dr Daniel Hook, CEO of Digital Science, Figshare - 10 Minutes
6. **Q&A:** Dr James AJ Wilson, Head of Research Data Services – 10 Minutes

June Hedges

Head of Liaison and
Support Services UCL
Library Services



Open Science – a movement for the 21st century

Dr Paul Ayris

Pro-Vice-Provost (UCL Library Services)

E-mail: p.ayris@ucl.ac.uk

Twitter: @ucylpay



European Commission: Open Science Policy Platform – 8 pillars of Open Science

Future of Scholarly Communication

EOSC (European Open Science Cloud)

FAIR Data

Skills

Research Integrity

Rewards

Altmetrics

Citizen Science

European Commission: Open Science Policy Platform – 8 pillars of Open Science

Future of Scholarly Communication

EOSC (European Open Science Cloud)

FAIR Data

Skills

Research Integrity

Rewards

Altmetrics

Citizen Science

League of European Research Universities

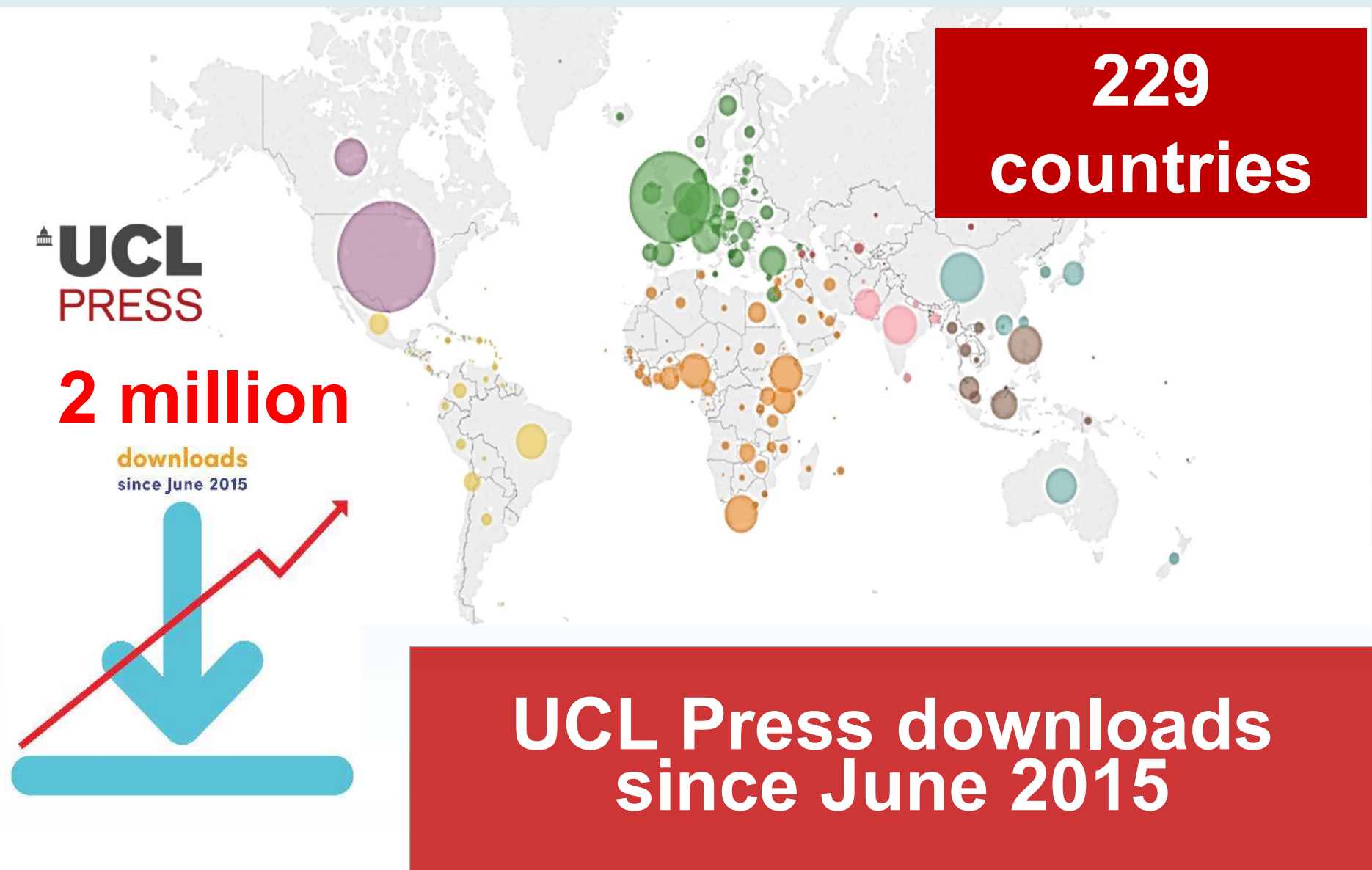
23 leading universities pushing the frontiers of innovative research

- ❑ LERU has produced an Open Science Roadmap for universities
- ❑ Launched on 12 June 2018 at <https://www.leru.org/publications/open-science-and-its-role-in-universities-a-roadmap-for-cultural-change>
- ❑ 41 Recommendations

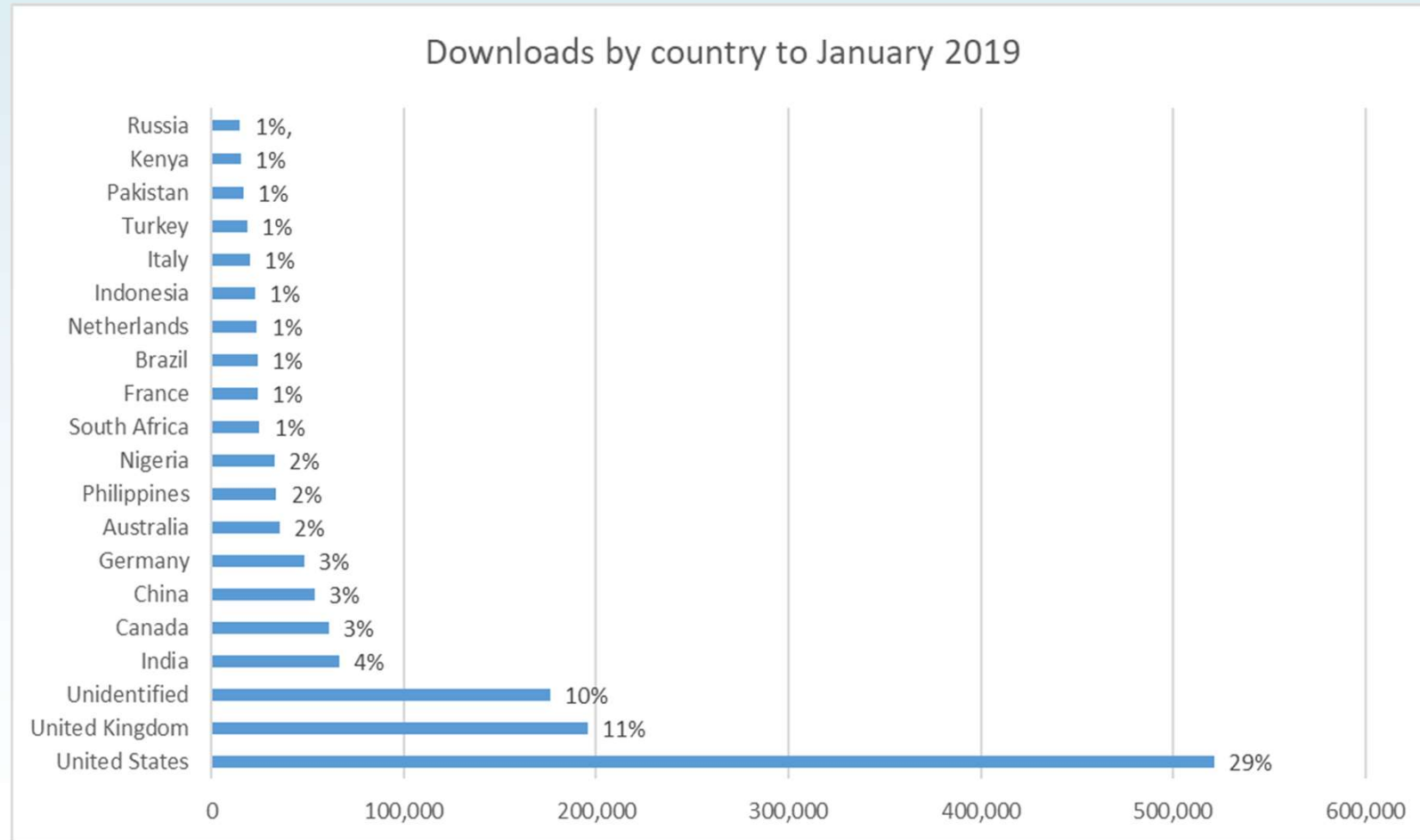




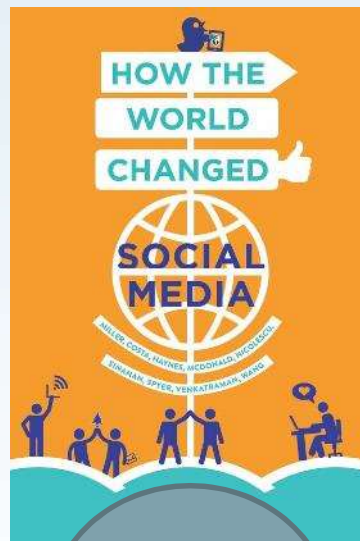
- ❑ Plan S [Implementation Plan](#) with [Rationale](#) for changes
- ❑ [Statement from LERU](#) (League of European Research Universities) on the implications of the revised Implementation Plan
- ❑ [Leadership](#) statement from the Rectors on Open Science



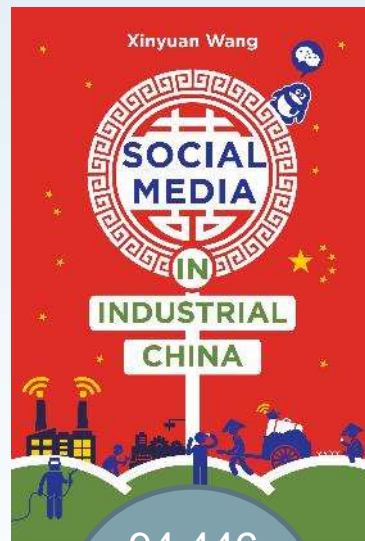
Downloads - top 20 countries since launch



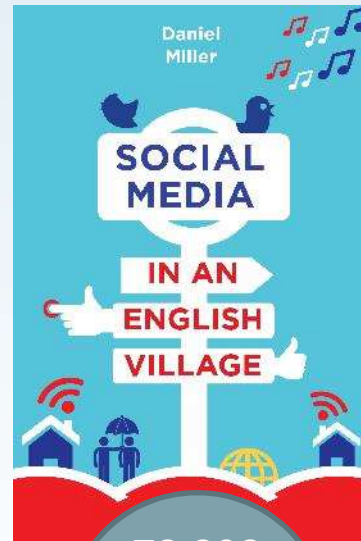
Most-downloaded books (Apr19)



319,902
Since
March
2016



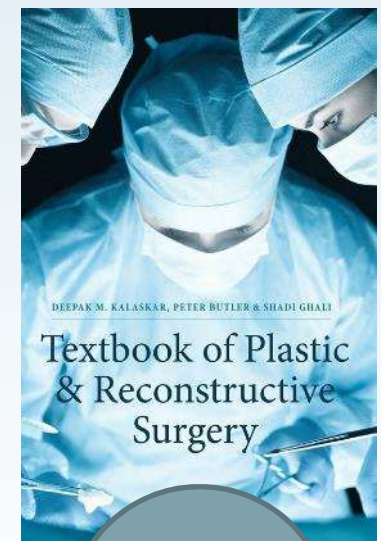
94,446
Since
Sept
2016



72,232
Since
March
2016

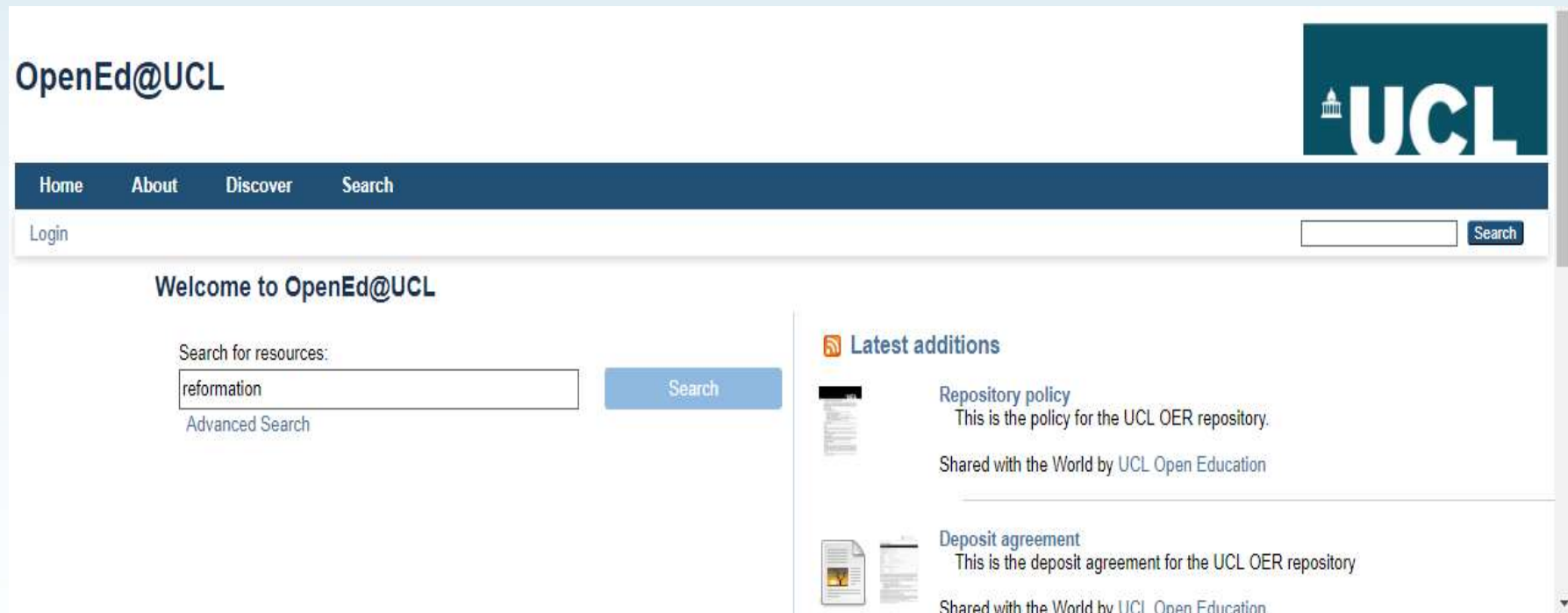


67,125
Since
January
2018



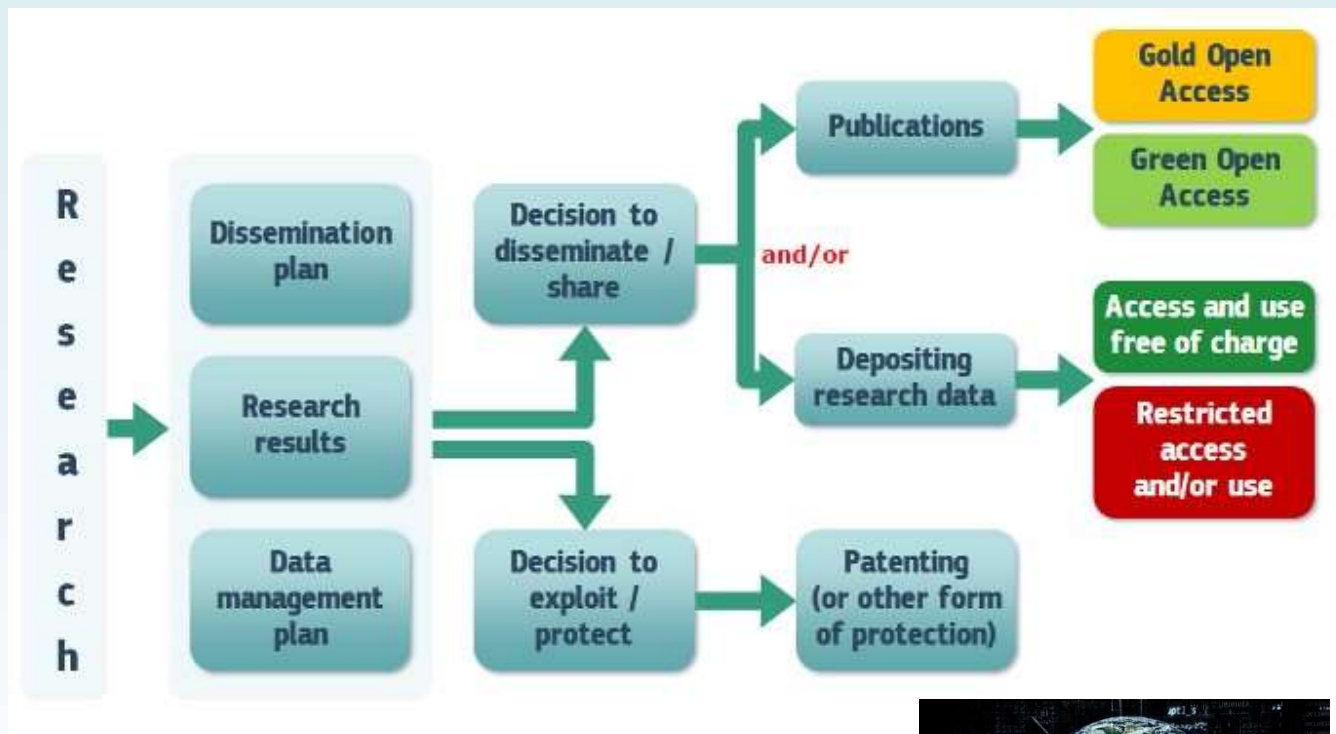
60,358
Since
August
2016

OpenEd@UCL Pilot launched



<https://open-education-repository.ucl.ac.uk>

Research Data – a new currency



❑ UCL RDR (Research Data repository)



Graphic from: H2020 Online Manual

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/open-access_en.htm

Conclusion

- ❑ Open Science is good for the researcher
- ❑ It is also good for Education
- ❑ Research data is the new 'currency' in Open Science
- ❑ Open Science is an opportunity, not a threat



UCL Student Centre, opened 18/2/19

Professor Geraint Rees

Dean of the UCL
Faculty of Life
Sciences



Reusing and Sharing Qualitative Data: a researcher's perspective

UCL Research Data Repository Launch Event
5-7pm, 5th June, W3.01 IOE, 20 Bedford Way

Rebecca O'Connell
Reader in the Sociology of Food and Families
Thomas Coram Research Unit
UCL Institute of Education
rebecca.oconnell@ucl.ac.uk

Outline

- Background
- Reusing data
 - Novella (PI, Ann Phoenix, TCRU)
 - Possibilities of paradata
- Sharing data
 - Food, Families and Work
 - Families and Food in Hard Times

Background

- Reusing data created from previous research projects for new purposes
- Opportunity to ‘study the raw materials of past research projects to gain methodological and substantive insight’ (Bishop & Kuula-Luumi, 2017:1)
- Contextualisation & ethical considerations (Heaton, 2004; Bishop, 2006; Irwin, 2013)

Novella, PI: Professor Ann Phoenix

- Narratives of Varied Everyday Lives and Linked Approaches (novella.ac.uk)
- ESRC National Centre for Research Methods 'Node'
- Four subprojects & two cross-node collaborations
- 'Possibilities of paradata' (13.22 -14.47)
- https://www.youtube.com/watch?v=o_ezMgvpm0A&feature=youtu.be

Opportunities and challenges

- Make use of rich data resources e.g. Poverty in UK; Mass Observation; Young Lives; Ambleside Oral History Archives
- Reduce respondent burden
- Enhance existing analyses/knowledge

But

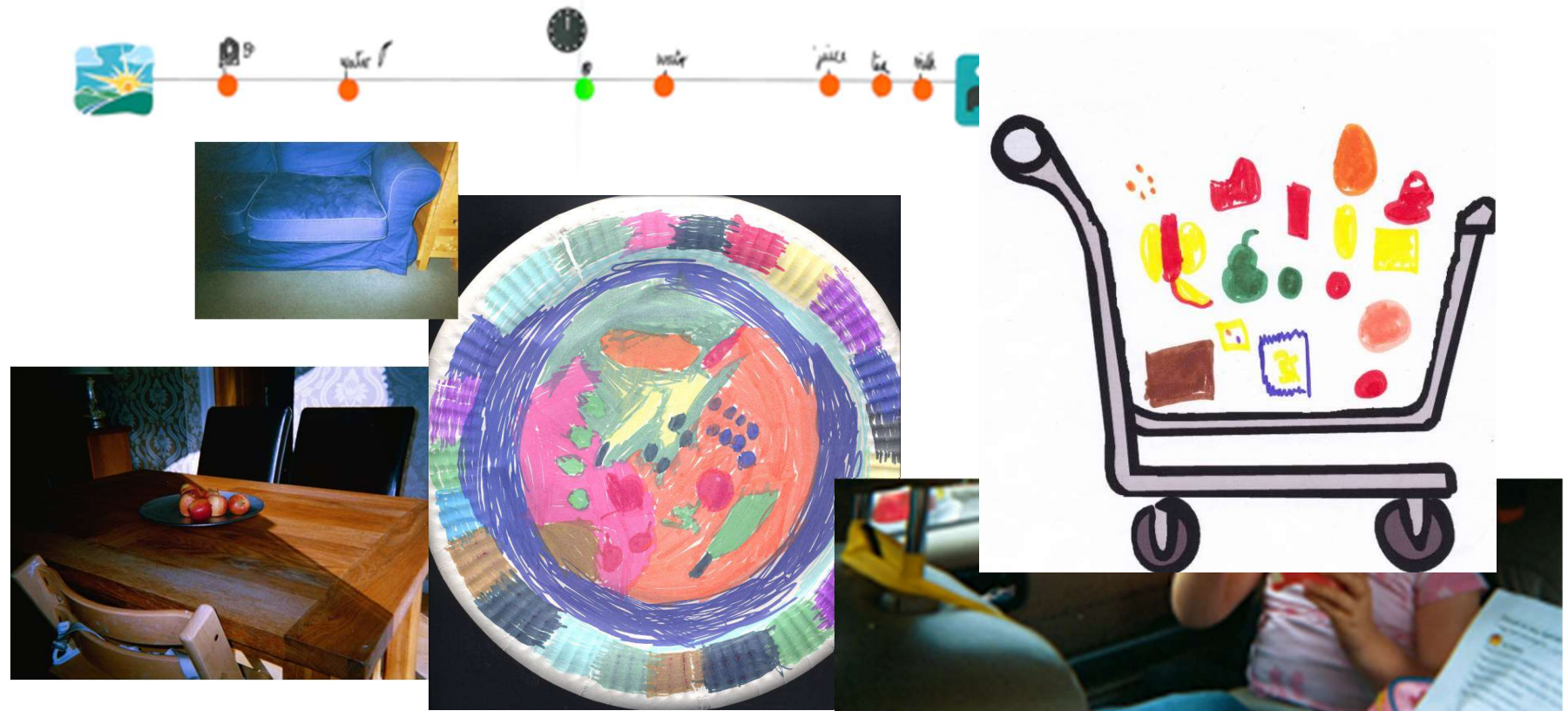
- Limited to consent & questions asked i.e. 'gaps'
- Context may be unclear/ unfamiliar

Sharing qualitative data



- ESRC + FSA/DH
- Mixed methods longitudinal design (2009 - 2013)
- Secondary analysis: NDNS and other surveys – (W1) HSE, ALSPAC (W2) US, MCS
- Qualitative sample (N=47) of children (2-10 yrs) + employed parents drawn from NDNS
- 36 families followed up at W2 (2 year gap)
- Interviews with parents (usually mothers) and range of methods with children

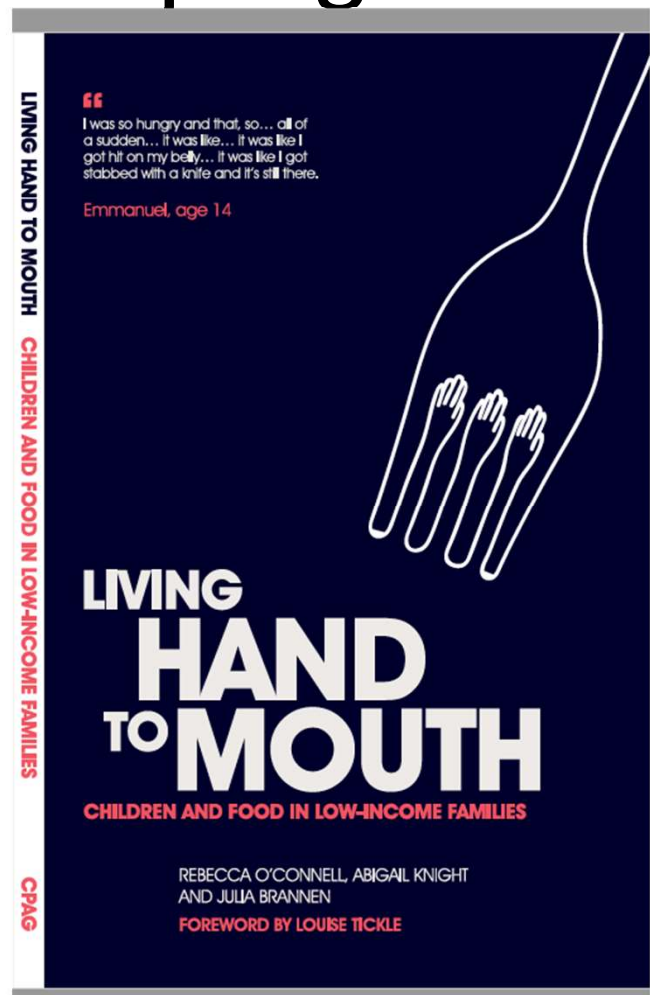
Visual methods and data



Sharing qualitative data

- Informed consent to archive
- Anonymisation – not straightforward
- Protocol/regular meetings – queries
- Sample to archive
- Supporting documentation –infor & consent forms, research tools, methodology, findings, outputs...
- Embargo/ restrictions - contentious?

In progress...



- Families and Food in Hard Times
- ERC funded
- UKDA
- Interview transcripts 45 parents + 51 children aged 11-15 years; photographs by children and researchers
- Laidlaw Scholarship (six weeks, summer, 2018)
- Capacity building 'Open Science'



Families and food in hard times and the importance of qualitative data reuse

Orsolya Dobe, supervisor: Rebecca O'Connell
Thomas Coram Research Unit (TCRU), UCL Institute of Education
University College London, 27-28 Woburn Square
London WC1H 0AA

Introduction

The aim of this project was to identify the benefits of qualitative data reuse, prepare the qualitative data for archiving while identifying the possibilities of secondary analysis of the interview transcripts used for the 'Food and families in hard times' project.

Background

Secondary analysis of qualitative data

It entails reusing data created from previous research projects for new purposes.⁽¹⁾

Benefits: less expensive, further exploration of the data from a new perspective, allows verification of the original study, replication or restudy over time, comparative research to be carried out in a number of contexts, helps discovering new research designs, benefit of the distance the secondary researcher.⁽²⁾



About the study:

The 'Families and food in hard times' applied a mixed method international case study design to the study of household food poverty including the experiences of children and young people.

Outputs

- Upskilling myself about the benefits of qualitative data reuse and the Open Science Framework movement in research.



Main findings of my fieldnotes

- Most children in underprivileged families of the sample see the future in education.
- Surprisingly low level of knowledge about the benefits and vouchers available.
- False assumptions about benefit-receiving households, in most cases they are actively searching for employment.
- Children in immigrant families often prefer British food to their domestic food, to which their mothers have a hard time getting used to.
- Eating out often represents a form of independence, and not having this option because of financial restraints is damaging the children emotionally.

Methods

- A systematic review of the UK transcripts of sensitive semi structured interviews with poor and low income young people and their parents.
- Anonymisation of 50% of the UK sample that comprises 45 young people and their parents or carers considering the Open Science and awareness of ethical considerations regarding participant confidentiality.
- Preparation of the in-depth qualitative data and its supporting documentation for deposit in the UK Data Archive.
- Completion of fieldnotes of the sensitive interviews from an 'outsider perspective'⁽³⁾

Impact & Capacity Building

In conclusion we can see a great example of a possible qualitative data reuse of the anonymised transcripts. Future questions of a secondary analysis of the data: e.g. How do underprivileged people communicate their problems to the outside world? Positive Impact: consulted the UK DATA archive about the project and sent them a sample of the prepared data for which we received positive feedback.

References: (1) Borge, L. & Kraljic-Lisinska, A. (2019) Reusing data: an introduction. *Open Science*, 7(1), doi: 10.1017/2502083208000000.
(2) Hesse, P., Vogel, R. and Christensen, L. (2007) The possibilities and pitfalls of doing secondary analysis of qualitative data. *Qualitative Health Research*, 17(3), pp. 404-424. Cui, L. and Thompson, P. (2009) The secondary analysis of archived qualitative data in C. Reed et al. (eds) *Qualitative research in practice*, London: Sage.
(3) Dobe, Orsolya (2024) The journey. In *Qualitative research*, Vol. 2. The Hague: Martinus.
https://doi.org/10.1007/978-94-007-9999-9_2

- First year UG student, Orsolya Dobe
- Approach data as an 'outsider': nationality and 'field'
- Outputs/Impacts: *'Upskilling myself about the benefits of qualitative data reuse and the Open Science Framework movement in research'*
- Insights from a 'stranger's' perspective (Schutz, 1964)
- e.g. *'Surprisingly low level of knowledge about the benefits and vouchers available'*

‘The development of **policies and infrastructure** to support the reuse of qualitative data has gone hand-in-hand with the development of an ethos of data sharing; **both are necessary** if data are to be made available for sharing and valued as a resource for reuse’

(Bishop and Kuula-Luumi, 2017:2)

An abstract graphic on the left side of the slide, featuring a network of interconnected nodes and lines. The nodes are small circles, and the lines are thin, creating a web-like structure. The colors of the nodes and lines transition from green at the top to blue at the bottom, matching the background gradient.

An Introduction to FIGSHARE at UCL

Daniel Hook
CEO, Digital Science



Agenda

- Why use the new research data service?
- How to use the new research data service?
- Case study



What is Research Data?

Research Data is any output that is derived from research including but not limited to:

- Spreadsheet data
- Annotated/marked-up text
- Images
- Video
- Audio files
- 3D visualisations
- Map data (KML files)

Figshare can also store the code associated with data.

What is Figshare?

Figshare is a place where users can make all of their research outputs available in a citable, shareable, and discoverable manner.



Minolta__mthibetana_129.ply (19.52 MB) 

MD5: 3fc63082ad8a4b6052a7d1b71cab3100 | 

Cite

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1 / 4 < >  

3D models of *M. thibetana* (AMNH 129) by four different methods

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views

2
downloads

1
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Figure posted on 09.05.2017, 21:33 by [Melissa Tallman](#), Brian M. Shearer, Siobhan B. Cooke, Lauren B.

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An abstract geometric pattern of white lines and dots on a black background, resembling a network or data structure, is positioned on the left side of the slide.

Why store and share
your research data on
UCL Figshare?

Get a citable DOI for your research

Online Labour Index: Measuring the Online Gig Economy for Policy and Research

Version 1114 ^ Dataset posted on 30.05.2019, 23:48 by **otto kässi**, **Martin Hadley**, Vili Lehdonvirta

Version 1114 30.05.2019, 23:48

Version 1113 29.05.2019, 23:46

Version 1112 28.05.2019, 23:45

Version 1111 27.05.2019, 23:45

Version 1110 26.05.2019, 23:44

Version 1109 25.05.2019, 23:44

Version 1108 24.05.2019, 23:46

underlying the Online Labour Index. See
ne-labour-index/ for details.

First online date
23.04.2019

Posted date
30.05.2019

kässi, otto; Hadley, Martin; Lehdonvirta, Vili (2019): Online Labour Index: Measuring the Online Gig Economy for Policy and Research. figshare. Dataset. <https://doi.org/10.6084/m9.figshare.3761562>

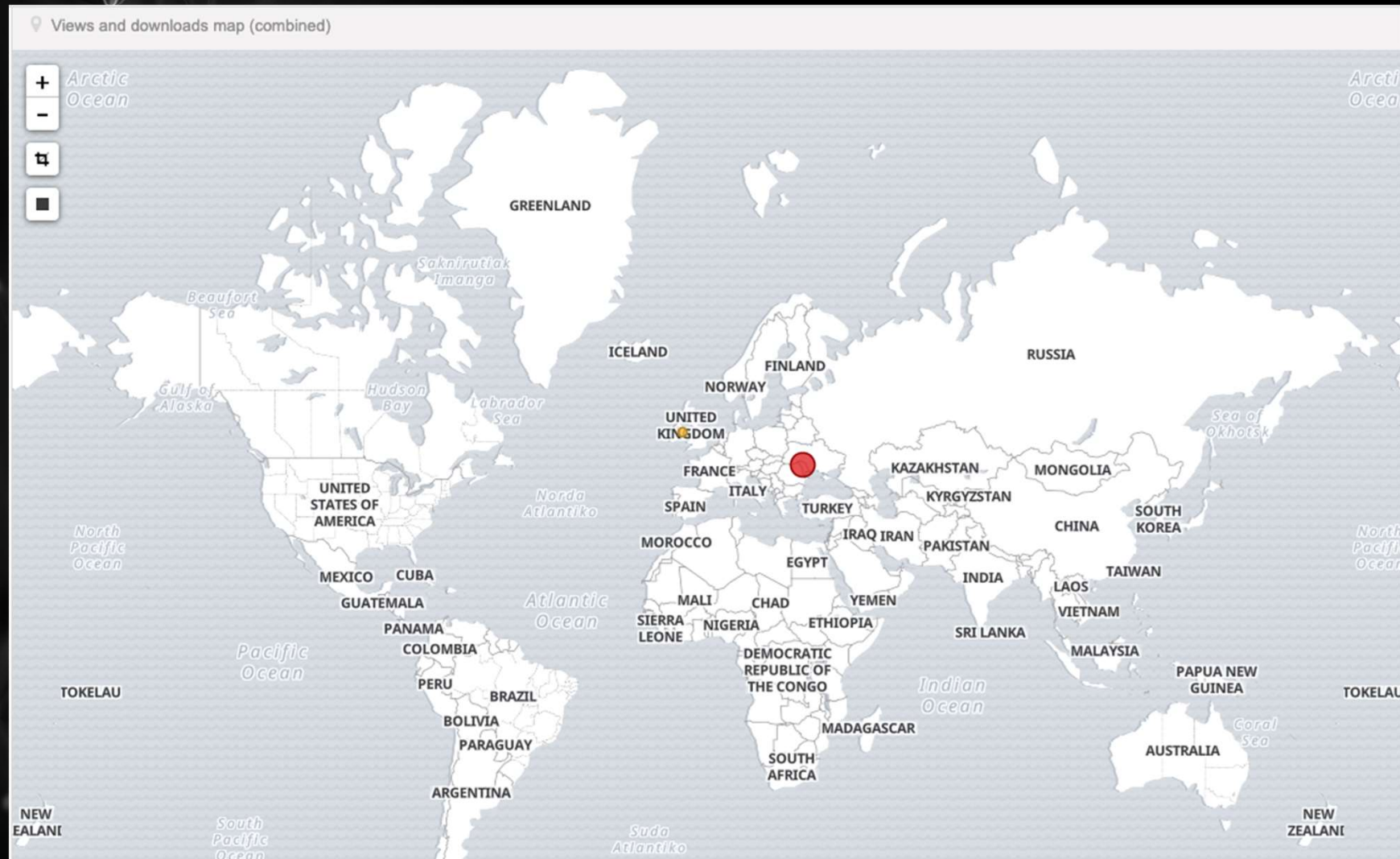


Safely store your research outputs in the cloud

Figshare is a cloud-based software accessible anywhere, on-campus or off-campus, just use your UCL single sign-on login to access.

UCL will be keeping a separate copy of all data and metadata.

Demonstrate impact with citation counts, usage metrics, and Altmetrics



Open data funder compliance

FUNDING

Cortical organization of object knowledge before and after brain surgery

National Institute of Neurological Disorders and Stroke

Cortical organization of action knowledge before and after brain surgery

National Institute of Neurological Disorders and Stroke

Core Grant for Vision Research

National Eye Institute

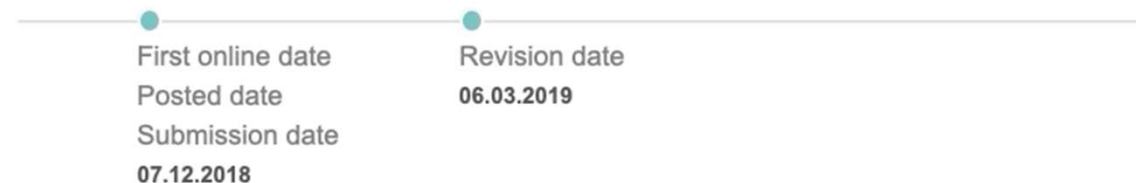
Schmitt Program on Integrative Brain Research (University of Rochester)

Research to Prevent Blindness

Neurovascular and Neuroplastic Contributions to Visual Recovery After Stroke

National Eye Institute

TIMELINE



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Online appendix: the happiness of software developers

+ Follow

Version 9 ▾ Published on 04 Jul 2017 - 11:56 by Daniel Graziotin

Datasets, supplemental material, replication kit for a series of studies on the happiness of software developers.

CITE THIS COLLECTION

DataCite ▾

Graziotin, Daniel; Fagerholm, Fabian; Wang, Xiaofeng; Abrahamsson, Pekka (2017): Online appendix: the happiness of software developers. figshare. Collection.

<https://doi.org/10.6084/m9.figshare.c.3355707.v9>

2398
views

3
citations



AUTHORS

Daniel Graziotin
Fabian Fagerholm
Xiaofeng Wang
Pekka Abrahamsson

CATEGORIES

- Computer Software
- Software Engineering
- Industrial and Organisational Psychology

Place an embargo on your data

File(s) under embargo

Reason: industry data protected by confidentiality terms in project collaboration agreement

— 3 — 8 —
years days
until file(s) become available

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Parameter identification data from 'Multi-temperature state-dependent equivalent circuit discharge model'

Dataset posted on 10.08.2016, 11:24 by [Daniel Auger](#), [Abbas Fotouhi](#), [Stefano Longo](#)

This fileset contains the experimental data used for parameter identification in the paper 'Multi-temperature state-dependent equivalent circuit discharge model for lithium-sulfur batteries' accepted by the *Journal of Power Sources* on July 23, 2016.


The data files can be opened with MATLAB R2016a.

FUNDING
EP/L505286/1

HISTORY
First online date: **10.08.2016**
Posted date: **10.08.2016**


REFERENCES
• <http://dx.doi.org/10.1016/j.jpowsour.2016.07.090>

464 views | 0 downloads | 0 citations





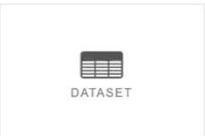

CATEGORIES
• **Engineering not elsewhere classified**

KEYWORD(S)
lithium-sulfur batter
parameter estimation
system identification **battery model**

LICENCE
 CC BY 4.0

Use your UCL login to access

The screenshot displays the UCL Research Explorer website. At the top, there is a navigation bar with the UCL logo, a 'Browse' button, a search bar with the placeholder text 'Search on University College London...', and a 'Log in' link. Below the navigation bar is a large banner image of a classical building with columns. Overlaid on the banner is a smaller UCL logo. Below the banner, the text 'Discover research from University College London' is followed by a '+ Follow' button. The main content area features a filter bar with 'ALL', 'CATEGORIES', and 'SEARCH' options, along with a 'sort Posted date' dropdown. Below the filter bar, there are statistics: '175 views', '49 downloads', and a 'more stats...' link. The main content area displays four research items, each with a thumbnail, title, author, and date:

Thumbnail	Title	Author	Date
	Development of an in vitro media perfusion model of Leishmania ma...	Alec O'Keefe	05/05/2019
	EyeRisk_AMD_SBG_N_v1.xml	Philip Luthert	25/04/2019
	ECLIPSE study Phase 1 (point prevalence) data	Ann Blandford	05/04/2019
	CATH protein domain classification (version 4.2)	Ian Sillics	08/04/2019

Upload your data & fill in metadata form

to upload, drag file(s) on the page or [browse](#)

☐ Metadata record only [Link file](#)

needed to publish

Title

Untitled Item

Authors

Search co-authors by name, full email or ORCID. Hit enter after each.

Categories

Select categories

Item type

Select item type

Keyword(s)

Add keywords for easy discovery. Hit enter after each

Description

Describe your data as well as you can. Formatting is preserved when pasting from other sources and counts towards character limits

Tips

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Preview item (private)

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Last edited on 28 May 2019 - 14:48

Cancel

DOI

☐ Publish

Save changes

B *I* U \times_2 \times^2

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Search grant by name/number or add your own

+ [Add another grant](#)

References

Link to references or related content

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I confirm that I am not uploading any: personal data as defined by data protection legislation, including information that may identify a living individual; information provided in confidence; or information that would contravene a third-party agreement

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I have considered whether the data to be published may be licensed commercially before deciding to freely release it to the public. Further information and advice may be sought from UCL Business <https://www.uclb.com/about/our-people/>

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Use this form to edit all information related to your data. Please be as descriptive as possible. The file upload is independent from the rest of the form, so you don't need to save an upload. This message will be replaced with helpful tips and suggestions as you begin interacting with the form.

Preview item (private)

Edit timeline

Last edited on 28 May 2019 - 14:48

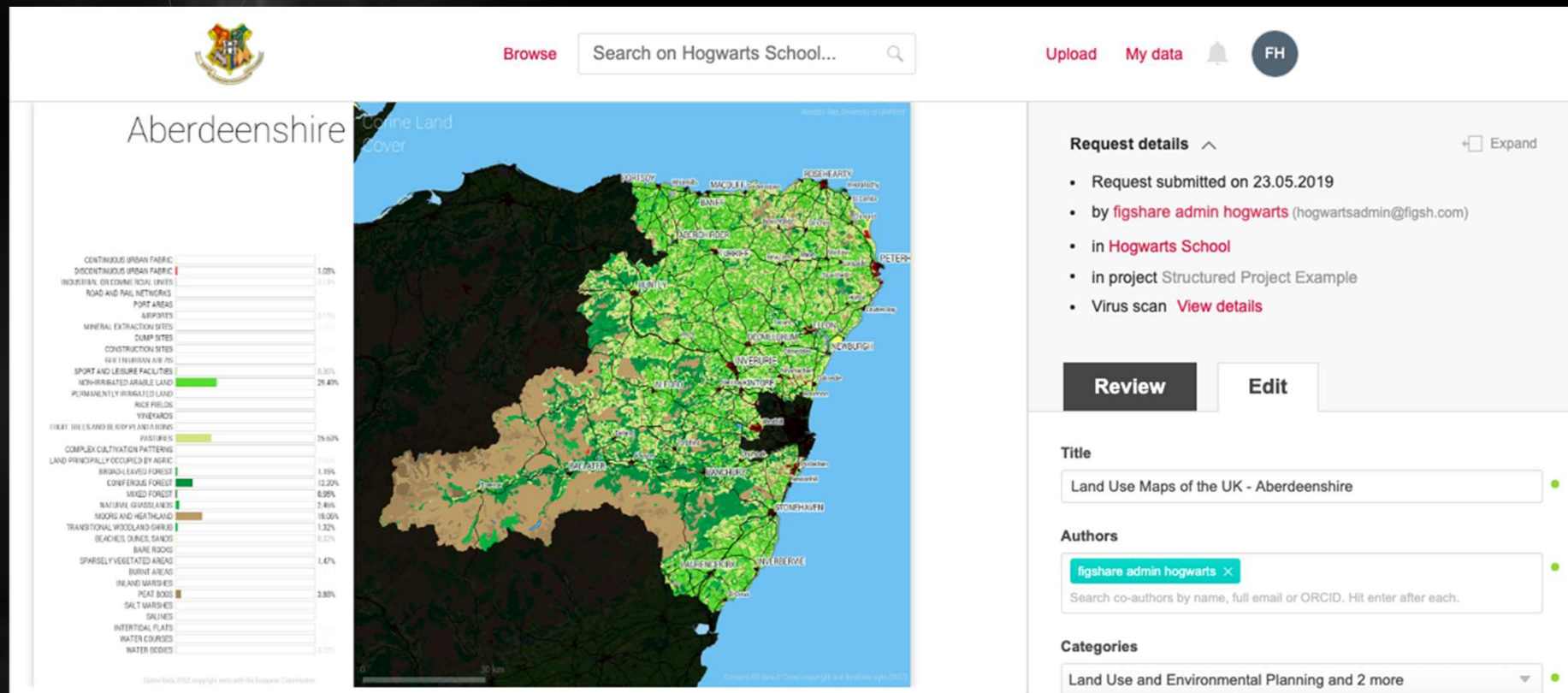
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Have your data reviewed before it's published



Case study: Ricardo Henriques

MRC LMCB

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Ricardo Henriques

LMCB Group Leader, UCL Senior Lecturer, Experimental Optics Leader

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+44 (0)20 7679 7936

LMCB Room 4.13

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Quantitative Imaging and Nanobiophysics

Research Synopsis

The Henriques lab was established in 2013 to undertake research combining cell biology, optical physics and biochemistry. The group focuses on biological problems that cannot be addressed with current imaging technology, and thus aims to develop analytical, optical and biochemical approaches to address these questions.

In cell biology we aim to understand how viruses enter cells by probing and remodelling

About the lab



Case study: Ricardo Henriques

“We have tried to make the research we do accessible and reproducible: software is open source, the designs for the hardware are openly available, and we publish preprints to get our work out as soon as possible.”

Ricardo Henriques's public data

The grid displays 11 items:

- Preprint:** Sharing data to encourage accessibility and reproducibility w... Ricardo Henriques 10/05/2019
- Ricardo Henriques - CV:** Ricardo Henriques 08/05/2019
- NanoJ: High-Performance Open-Source Super-Resolution Mi...** Romain F. Laine 07/04/2019
- Ricardo Henriques talk at University of Birmingham 2019 - Democratisi...** Ricardo Henriques 22/03/2019
- Video Abstract - Automating multimodal microscopy with Nano...** Ricardo Henriques 15/03/2019
- Ricardo Henriques tutorials at Microscopy Winter School ETH an...** Ricardo Henriques 28/01/2019
- MRC-LMCB Super-Resolution Course 2018** Siân Culley 01/11/2018
- QuickPALM: STORM over the Eiffel Tower** Ricardo Henriques 01/11/2018
- Democratising live-cell super-resolution microscopy enabled by open-source analytics in ImageJ** Ricardo Henriques 13/09/2018
- RHenriques FOM2018 Live- and Fixed-Cell Super-Resolution Micro...** Ricardo Henriques 25/03/2018

Case study: Ricardo Henriques



Prior to being uploaded to Figshare in 2018, the videos were available on YouTube. However, in terms of reproducibility, YouTube wasn't suitable for downloading the data and reusing it. Because he was using Figshare for his presentations, he decided to upload the videos to Figshare, as well, so others could download them and reuse them.

Case study: Ricardo Henriques

Read more about Ricardo's experience sharing his data in this case study, "Sharing data to encourage accessibility and reproducibility within academia and beyond: a case study of the Henriques Lab with Ricardo Henriques".

Henriques, Ricardo; Hardeman, Megan (2019): Sharing data to encourage accessibility and reproducibility within academia and beyond: a case study of the Henriques Lab with Ricardo Henriques. figshare. Online resource. <https://doi.org/10.6084/m9.figshare.8107859.v1>



"We have tried to make the research we do accessible and reproducible: software is open source, the designs for the hardware are openly available, and we publish preprints to get our work out as soon as possible."



Thanks!

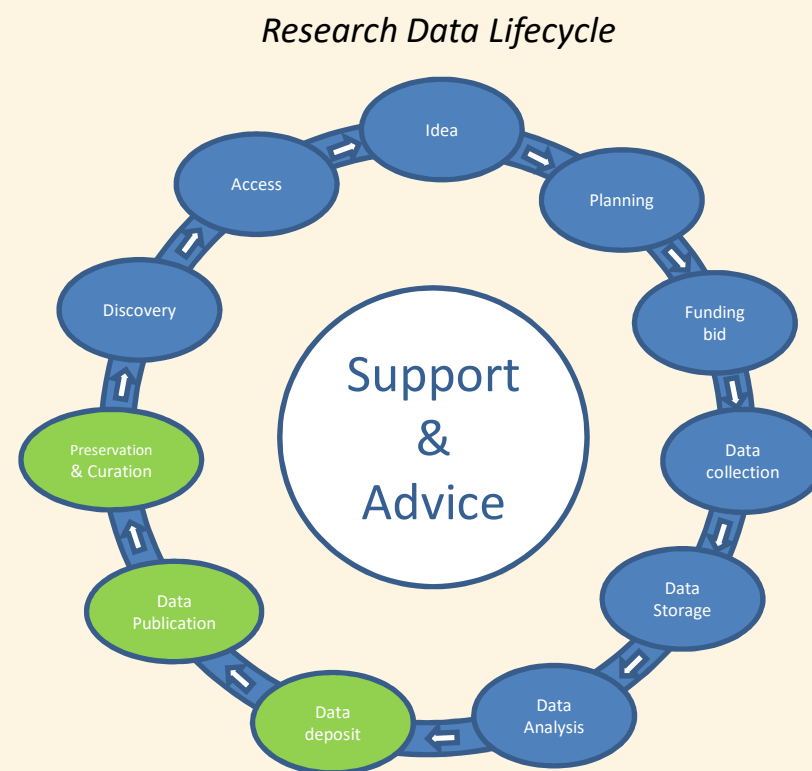
Daniel Hook
@danielintheory

**Dr James AJ
Wilson**

Head of Research
Data Services

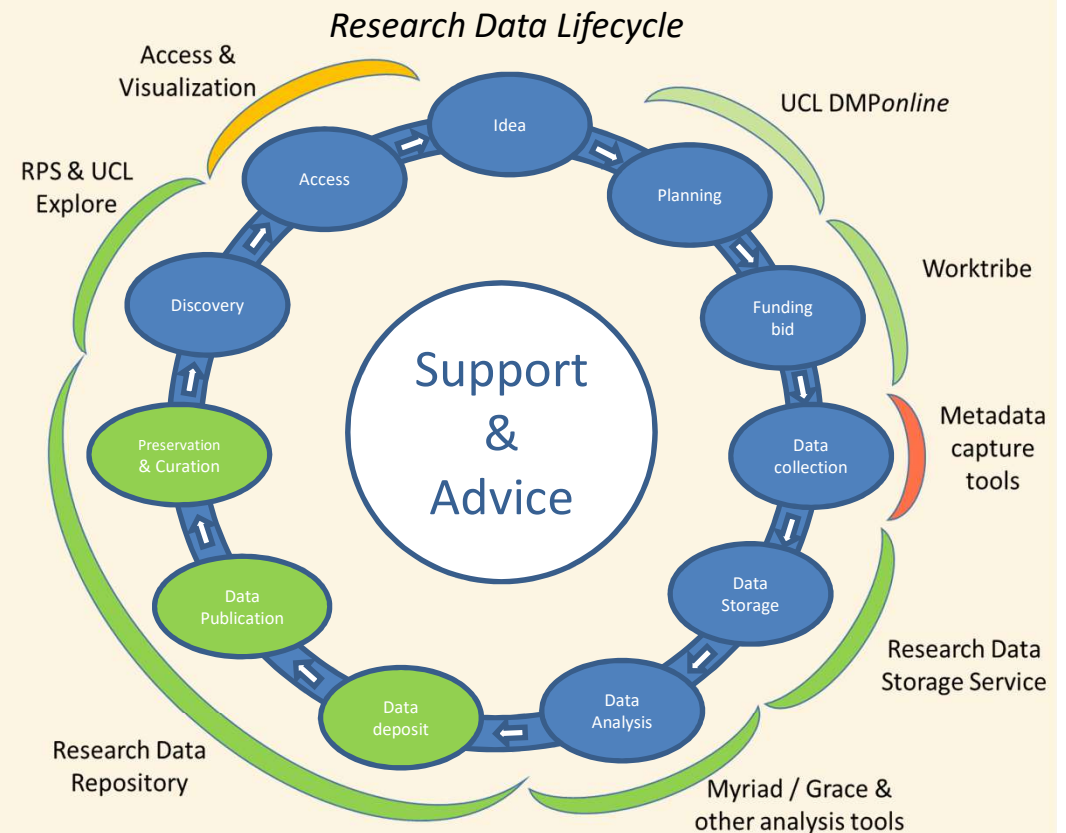


- Long-term commitment for UCL
- Service provided jointly by Research IT Services (ISD) and UCL Library
 - Research IT Services deal with technical issues, reporting, back-up, system integrations, future developments
 - Library's Research Data Support Service provide advice and guidance for all aspects of data management across the research data lifecycle, including the Repository, and review metadata records before publication
- Records added to Figshare will be reflected in the Research Publication Service and in UCL Explore

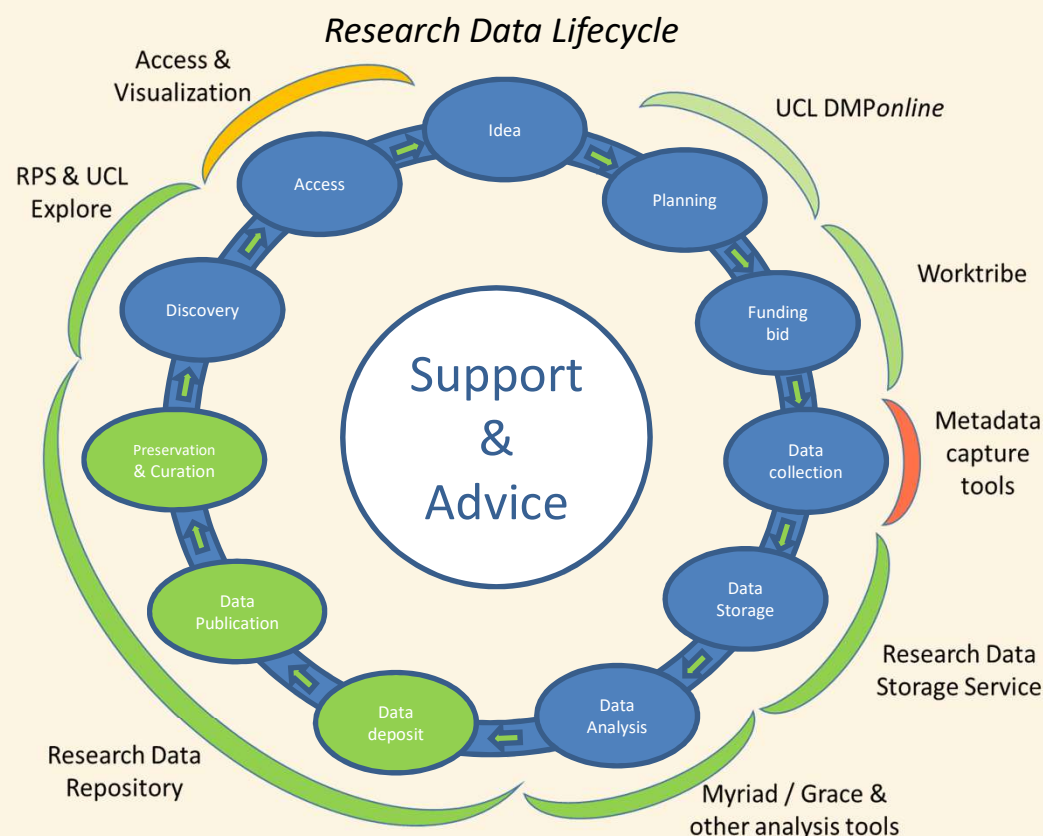


UCL Research Data Repository Future Plans

- Better support for sensitive data & restricted access
- Specialist metadata for different disciplines
- Preservation tools
- Migration of accounts from public Figshare to UCL Figshare (optional)
- Better technical integration between data management tools and services
- Ultimately, enriched documentation and an audit trail to facilitate reproducibility and re-use



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- Specialist metadata for different disciplines
- Preservation tools
- Migration of accounts from public Figshare to UCL Figshare (optional)
- Better technical integration between data management tools and services
- Ultimately, enriched documentation and an audit trail to facilitate reproducibility and re-use
 - Research Computing
 - Research Software Development
 - Research Data Storage Service



- **BIG THANKS** to:
 - The Project Team (Craig Dunant, Alastair Smith, Amy Fernandes, Godswill Arum, Elvira Balogun, and all the other staff who have helped out at one time or another over the last three years)
 - UCL Library (Paul Ayriss, June Hedges, Martin Moyle, Daniel Van Strien, Myriam Fellous-Sigrist, Marzena Dybkowska, Tina Johnson)
 - The Project Board (Paul Ayriss again, Peter Coveney, David Wright, Julianne Nyhan, Mike Atkins, Donna Swann, Rachel Cooper)
 - Special thanks to our recently departed director of RITS, Clare Gryce.
 - All the researchers and staff who have participated in the requirements gathering, solution evaluation, early adopter testing, or otherwise given their time to the project

- **BIG THANKS** to:
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Q&A