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OPEN ACCESS

24 2019
OTTOBRE WEEK
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Demystifying Open Science and Research Data Management: A practical workshop for researchers

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 <https://orcid.org/0000-0003-1492-4100>

In collaboration with Dr. Federica Cappelluti, Sara Rollino, Maria Girard, Monica Margara and Enrico Venuto

Turin, 24-10-2019



Today's Slides

Can be found at:

Special thanks and attribution to the data stewardship team at TU Delft:
<https://zenodo.org/communities/datastewards/?page=1&size=20>

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Who am I?

Dr.ir. Shalini Kurapati



- Brand new Open Science and RDM fellow at PoliTo (Adjunct role), very excited to be here!
- Past: Data steward at TU Delft, advised researchers on data matters
- PhD and Postdoc at TU Delft, 7 years of research experience
- Co-founder clearbox.ai at I3P, PoliTo
- Certified Information Privacy Professional/Europe

Let talk about Open Science

A little intro exercise

Audience profile

What comes to your mind when you hear the term 'Open Science'?



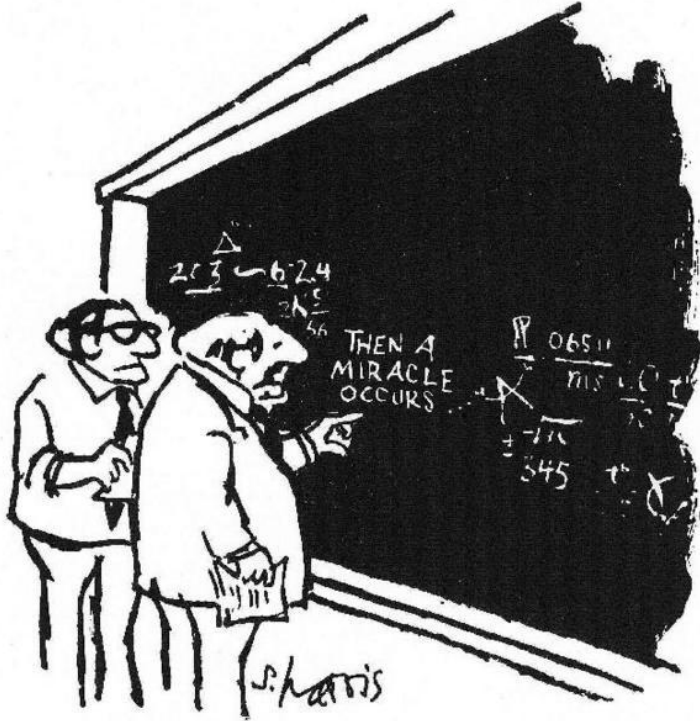
Busting Myth No.1

Myth: Open Science means open data

Fact: Open Science \neq Open Data



Science ≠ Miracles



"I think you should be more explicit here in step two."

[10.5281/zenodo.3472587](https://zenodo.org/doi/10.5281/zenodo.3472587)

Open Science means:

- Evidence based results,
- Transparency, reproducibility, research rigour,
- Validation and verification
- And all other things that basically define science.



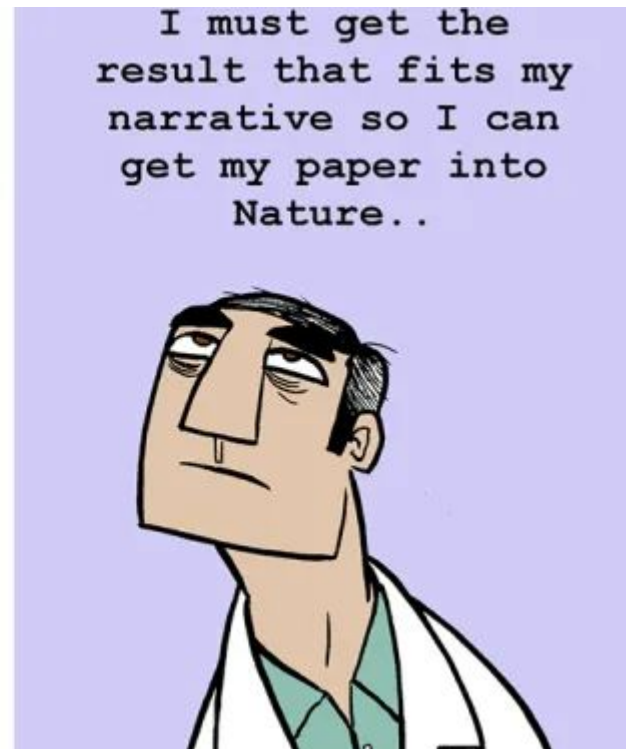
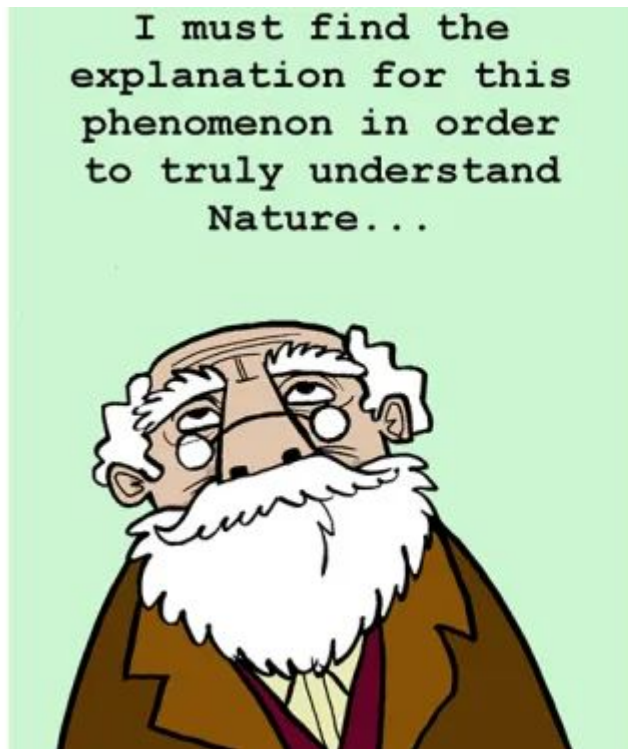
**OPEN SCIENCE:
JUST
SCIENCE
DONE RIGHT**

<https://zenodo.org/record/1285575>

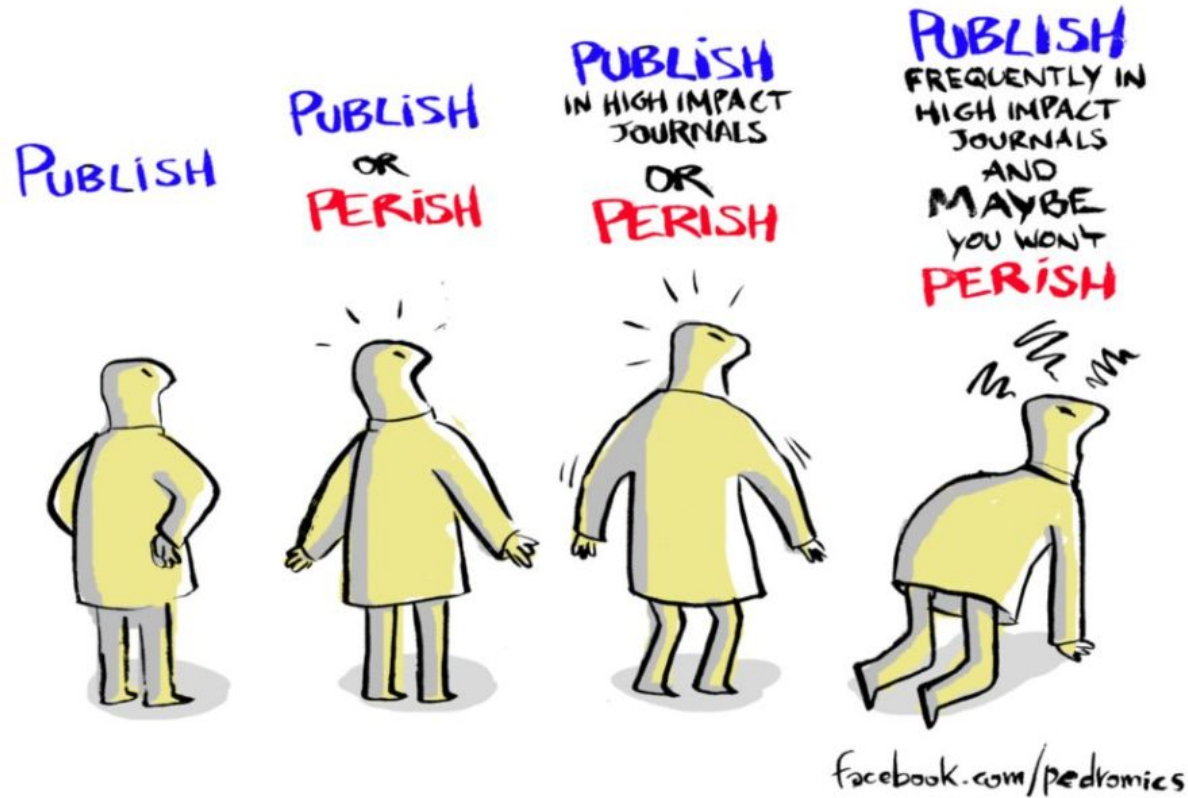


You see the problem?

Difference between a 19th century scientist and the 21st century academic



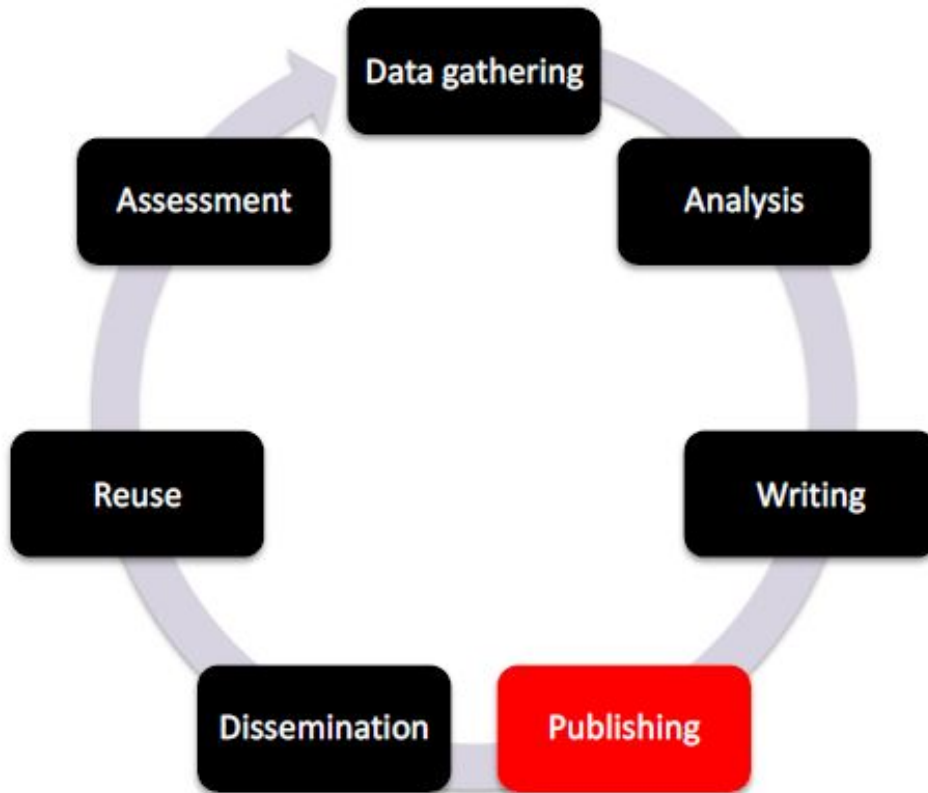
THE EVOLUTION OF ACADEMIA



Copyright:

<https://velica.deviantart.com/art/Publish-or-Perish-645355248>

How did we get here?



The only thing that counts in academia is **publication of novel results** in **high impact journals**

Source: Dr. Danny Kingsley

<https://www.repository.cam.ac.uk/handle/1810/276106>

Pressure to publish positive results...

- Design the study
- Collect data
- Analyze data as prespecified
- Oops! $P > 0.05$?
 - *Torture data until it confesses*
- Then, and only then... write the manuscript



Adapted from:

Turner, Erick (2016):

<https://doi.org/10.6084/m9.figshare.3381379.v1>

Some consequences

Report finds massive fraud at Dutch universities

Investigation claims dozens of social-psychology papers contain faked data.

Ewen Callaway

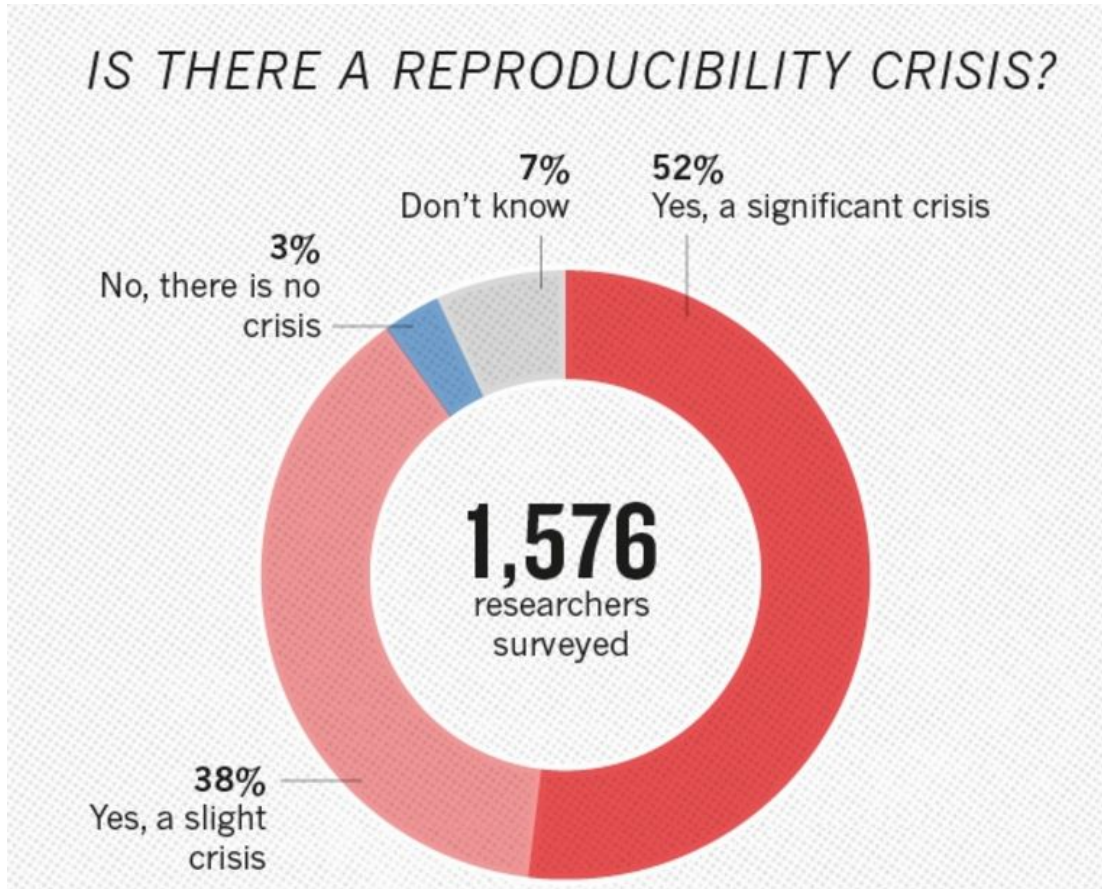
When colleagues called the work of Dutch psychologist Diederik Stapel too good to be true, they meant it as a compliment. But a preliminary investigative report (go.nature.com/tqmp5c) released on 31 October gives literal meaning to the phrase, detailing years of data manipulation and blatant fabrication by the prominent Tilburg University researcher.



It's not all about fraud, but mainly sloppy science



The reproducibility crisis



<https://www.nature.com/news/1-500-scientists-lift-the-lid-on-reproducibility-1.19970>

The main reasons for the crisis:



- Selective reporting
- Pressure to publish
- Insufficient supervision and training
- **Supporting data / methods / code not available**

Baker, M. (2016). 1,500 scientists lift the lid on reproducibility. *Nature*, [online] 533(7604), pp.452-454. Available at: <https://www.nature.com/news/1-500-scientists-lift-the-lid-on-reproducibility-1.19970> [Accessed 26 Apr. 2018].

Funding bodies are pushing for open science, focus on FAIR data

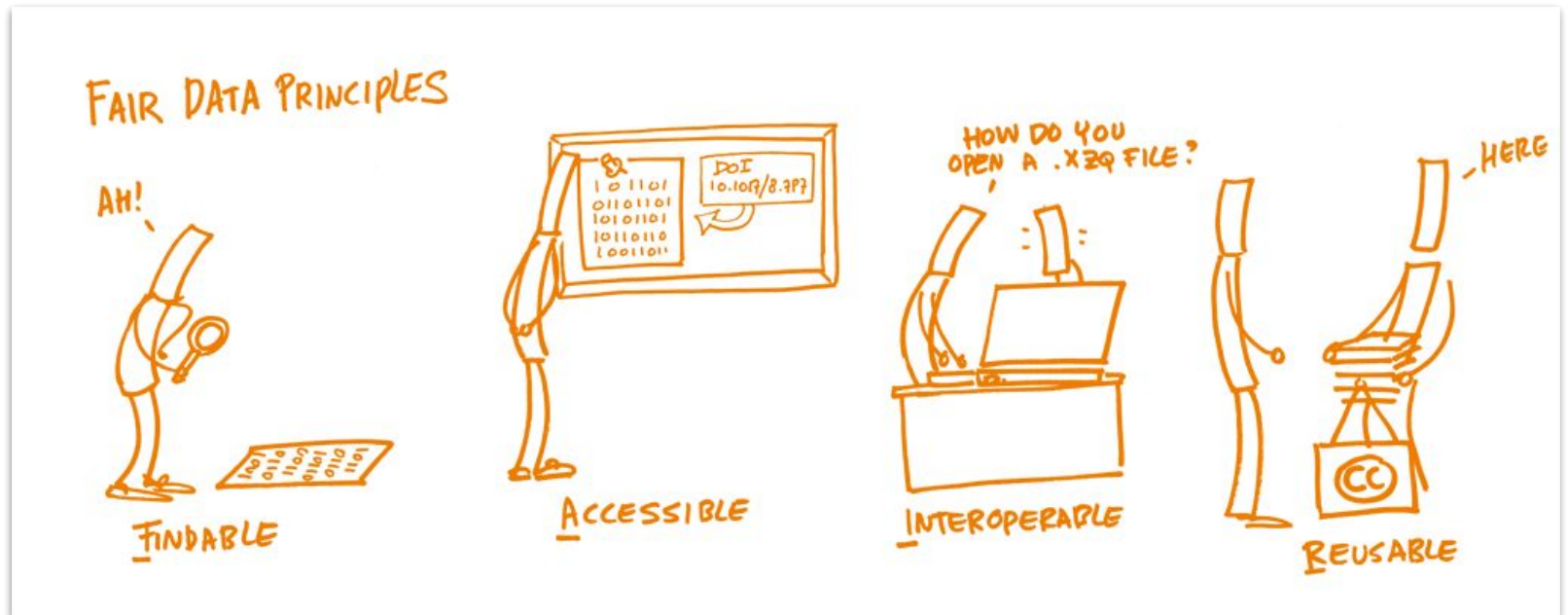


More will follow!

<https://www.ukri.org/funding/information-for-award-holders/data-policy/common-principles-on-data-policy/>



What is FAIR?



Hochstenbach, P. (2018). *Open Research Data Material - FAIR data principles*. [image] Available at: <https://hochstenbach.wordpress.com/> [Accessed 26 Apr. 2018].

More on this in future
workshops

Research Data Management is key!



We cannot achieve open science or FAIR data without RDM.

It is not simple but crucial!

Solutions at the intersection of technology, culture and awareness and policy

It's not just data!



About Blog Community Policy Software Training Resou

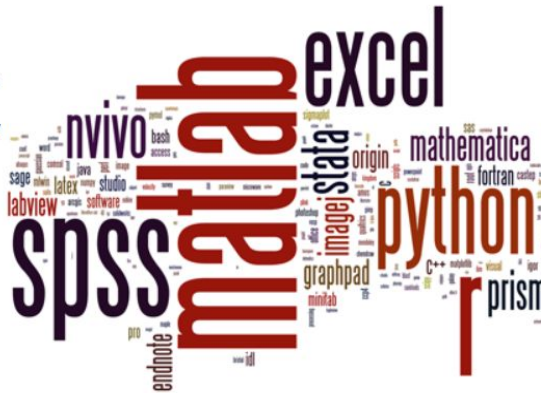
It's impossible to conduct research without software, say 7 out of 10 UK researchers

By [Simon Hettrick](#), Deputy Director.

No one knows how much software is used in research. Look around any lab and you'll see software – both standard and bespoke – being used by all disciplines and seniorities of researchers. Software is clearly fundamental to research, but we can't prove this without evidence. And this lack of evidence is the reason why we ran a survey of researchers at 15 Russell Group universities to find out about their software use and background.

Headline figures

- 92% of academics use research software
- 69% say that their research would not be practical without it
- 56% develop their own software (worryingly, 21% of those have no training in software development)
- 70% of male researchers develop their own software, and only 30% of female researchers do so



- 92% of academics use research software
- 56% develop their own software (21% of those have no training in software development)

<https://www.software.ac.uk/blog/2016-09-12-its-impossible-conduct-research-without-software-say-7-out-10-uk-researchers>



Software reproducibility!



24 May, 2018
17 participants, good balance
between researchers, data
stewards & RSEs

What comes to your mind when we talk about software
reproducibility?

Mentimeter



<https://openworking.wordpress.com/2018/06/26/workshop-report-software-reproducibility-how-to-put-it-into-practice/>

15



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Software integral part of RDM



Software sustainability is an important and much discussed topic, particularly in the computer science and applied mathematics communities, but also in materials science.

Cruz, Maria J., and Alastair Dunning. 2018. "Research Data Management Within the 4TU Research Centres." OSF Preprints. March 20. doi:10.31219/osf.io/sgftw.

Myth no.2

Myth 2: Open Science and RDM are only for the benefits of the others

Fact: The biggest beneficiaries of OS and RDM are the researchers themselves



We all know OS and RDM are good for the society



CC-BY Danny Kingsley & Sarah Brown



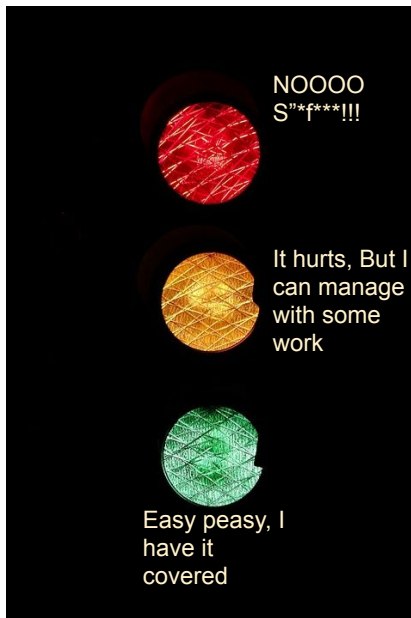
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Selfish benefit: Avoiding disasters



What is your reaction if..

- Your laptop got stolen
- You lost your USB stick
- Your portable hard drive got damaged
- Your stuff on Dropbox / Google Drive disappeared



These things happen



CASH REWARD
for returning my lost backpack



2007-7-15 ventlere.com

- Black [AK] Burton Rucksack
- Lost on Friday 15. July at 8 pm in the Panton Arms pub 43, Panton St. Cambridge
- Containing a laptop (white MacBook), a black external hard drive and scientific research documents

The external hard drive is **VERY** important to me as it contains 5 years of research data which are crucial for my PhD thesis!!!

If you found it, I would be extremely grateful if you could return it to the Panton Arms or contact me on: [REDACTED]
([REDACTED]@cam.ac.uk)

Thank you!!



These things happen

Visiting Professor Robbed At Gunpoint, Years Of Research Data Stolen -

SOURCE: KATHY GARVEY



Visiting Professor Robbed At Gunpoint In Davis, Years Of Research ...

The search is on for the suspects who robbed a UC Davis professor at gunpoint - and now years of valuable scientific research data have been s...

sacramento.cbslocal.com

<https://sacramento.cbslocal.com/2019/09/26/uc-davis-visiting-professor-robbed-gunpoint-research-stolen/>



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These things happen



SHARE

LETTERS

Editorial expression of concern

In the 3 June issue, *Science* published the Report “Environmentally relevant concentrations of microplastic particles influence larval fish ecology” by Oona M. Lönnstedt and Peter Eklöv (1). The authors have notified *Science* of the theft of the computer on which the raw data for the paper were stored. These data were not backed up on any other device nor deposited in an appropriate repository. *Science* is publishing this Editorial Expression of Concern to alert our readers to the fact that no further data can be made available, beyond those already presented in the paper and its supplement, to enable readers to understand, assess, reproduce, or extend the conclusions of the paper.

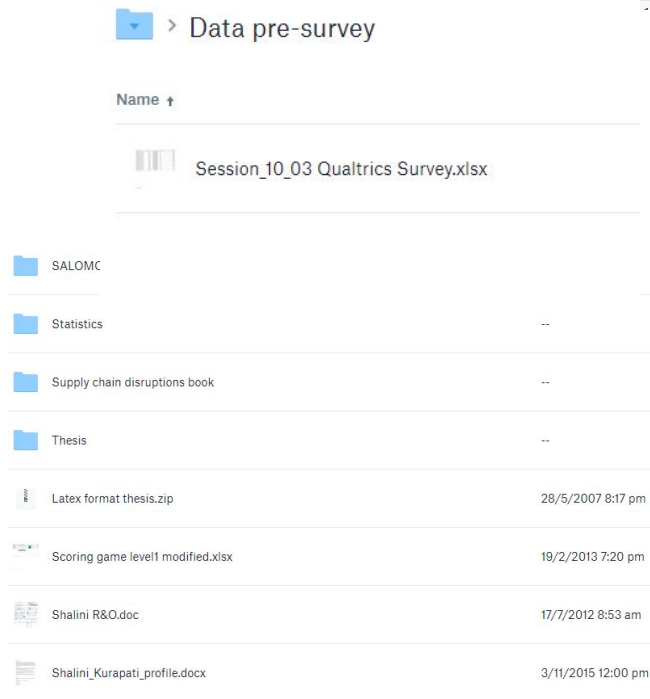
Reference

1. ↪ O. M. Lönnstedt, P. Eklöv, *Science* **352**, 1213 (2016). [ejournals@cambridge - find full text](#) [Abstract/FREE Full Text](#)



My own experience

Game data: Online, no local storage, sometimes data loss due to network issues, servers in NL, sessions in US, DE and NL



```
gsid,"ScorePunten","ScoreContainers","ScoreCranes","ScoreVessels","StarsTotalScore","StarsContainers","StarsCranes","StarsVe  
15088;1000;500;0;19300;3;1;5;5;0;0;0;0;0;330.787;99.8424;500;0;0;0;207.89;0;122.896;2;3;0;0;0;0;0;0;0;0;0;1;1;1;193;193  
15091;1000;0;0;2;1;5;1;0;0;0;0;0;50.8116;10.1623;0;0;0;0;50.8116;0;2;3;0;0;0;0;0;0;0;0;0;1;1;0;0;0;0;0;0;15091;4;1;0;  
15092;1000;500;0;14400;3;1;5;5;0;0;0;0;0;397.737;146.826;500;0;0;0;361.75;0;35.9879;2;3;0;0;0;0;0;0;0;0;0;1;1;1;144;144  
15093;1000;500;0;14700;3;1;5;5;0;0;0;0;0;725.656;154.203;500;0;0;0;360.599;0;365.053;2;3;0;0;0;0;0;0;0;0;0;1;1;1;147;14  
15095;1000;500;0;9000;3;1;5;4;0;0;0;0;0;688.82;210.05;500;0;0;0;580.781;0;108.036;2;3;0;0;0;0;0;0;0;0;0;1;1;1;90;90;0;0;  
15096;1000;0;0;2;1;5;1;0;0;0;0;0;17.6702;3.53402;0;0;0;0;17.6702;0;2;3;0;0;0;0;0;0;0;0;0;1;1;0;0;0;0;0;0;15091;4;1;0;  
15098;1000;500;0;19400;3;1;5;5;0;0;0;0;0;337.66;92.8853;500;0;0;0;196.953;0;140.707;2;3;0;0;0;0;0;0;0;0;0;1;1;1;194;194  
15099;1000;500;0;21200;3;1;5;5;0;0;0;0;0;223.915;79.2127;500;0;0;0;176.193;0;47.7217;2;3;0;0;0;0;0;0;0;0;0;1;1;1;212;21  
15100;1000;500;0;15400;3;1;5;5;0;0;0;0;0;522.019;150.016;500;0;0;0;411.868;0;110.151;2;3;0;0;0;0;0;0;0;0;0;1;1;1;154;15  
15101;1000;500;0;11300;3;1;5;5;0;0;0;0;0;741.69;196.303;500;0;0;0;618.976;0;122.705;2;3;0;0;0;0;0;0;0;0;0;1;1;1;113;113  
15103;1000;500;0;14100;3;1;5;5;0;0;0;0;0;530.218;173.987;500;0;0;0;427.559;0;102.66;2;3;0;0;0;0;0;0;0;0;0;1;1;1;141;141  
15104;1000;300;0;2;1;5;1;0;0;0;0;0;508.793;145.745;300;0;0;0;445.318;0;63.476;2;3;0;0;0;0;0;0;0;0;0;1;1;0;0;0;0;0;0;0;  
;1000;500;0;7900;3;1;5;4;0;0;0;0;0;754.93;220.39;500;0;0;0;674.076;0;80.8513;2;3;0;0;0;0;0;0;0;0;0;1;1;1;79;79;0;0;  
.....
```

A01: Anony.Player id

COMM_2014_10031139.txt

MATB_2014_10031139.txt

RMAN_2014_10031139.csv

RMAN_2014_10031139.txt

SYSM_2014_10031139.txt

TRCK_2014_10031139.csv

TRCK_2014_10031139.txt

WRS_2014_10031139.csv

WRS_2014_10031139.txt

Post-game survey embedded in the game platform, limited access

MATB data local: collected on pendrive, sometimes computer crashed, data loss

My own experience

Put Your Data to Work
Export in the formats you want.
Upgrade to a paid plan to export your survey results as PowerPoint, spreadsheets, and more. Download your data into any of these formats: CSV, PNG, PDF, PPT, SPSS and XLS.

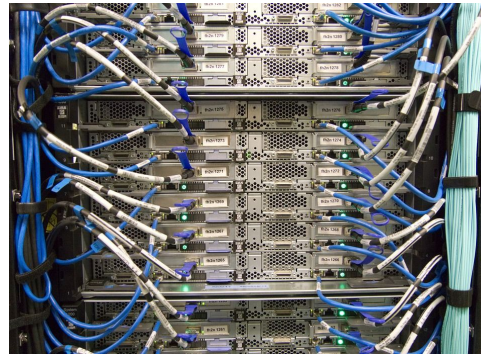
Plans & Pricing
Choose your plan today. Get started now with the survey platform that adapts to your needs—even if they change over time.

	BASIC	STANDARD	BEST VALUE ADVANTAGE	PREMIER
With SurveyMonkey, you can:	€ 0 <small>Always free</small>	€ 420 / year <small>See monthly plan</small>	€ 456 / year	€ 1.188 / year
	YOUR PLAN	UPGRADE	UPGRADE	UPGRADE
Number of surveys	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED
Questions per survey	10	UNLIMITED	UNLIMITED	UNLIMITED
Number of responses	100 / survey	UNLIMITED	UNLIMITED	UNLIMITED
24/7 customer support via email	✓	Priority	Expedited	Expedited & Phone
NEW! Team accounts & tools Collaboration tools for survey projects	1 user total with commenting only	1 user total with commenting only	2 users total with all team tools	2 users total with all team tools
NEW! Quizzes Create assessments with automatic scoring	✓	✓	✓	✓
Customized surveys Logo, colors, survey URL		✓	✓	✓
Data exports CSV, PDF, PPT, XLS		✓	✓	✓
Advanced data exports SPSS			✓	✓
Customized survey experience Skip logic, question & answer piping		Skip logic only	✓	✓

Used survey monkey in 2012. They changed policy for exporting my own data!

Data backup strategy

- Departmental/institutional backup system
- External drives
- Online backups
- At least two backups, at two different locations



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<https://policies.google.com/terms?hl=en>












PoliTo has a lot to offer

- The Information Technology area provides services to research: computing and data backup needs.
- Researchers can request secure backup (for regular data) in two different locations for upto 6 months of retrieval
- Applications: Web server, database, computing power, software, and virtual infrastructure (table)

Virtual Machines	Virtual CPUs	RAM [GB]	Storage [TB]	Backup [TB]
30	98	250	11	40

PoliTo has a lot to offer

HPC, Private cloud and Big Data services in collaboration with SmartData@PoliTO e HPC@POLITO.

CLOUD	1,500+ CPU cores	400 TB Storage		openstack.
	9 TB RAM	 ceph		
	 	2,900+ CPU cores	32 nVidia V100 GPUs	HPC
	 	27 TB RAM	100 Gb/s InfiniBand EDR	
BIG DATA	1,400+ CPU cores	8 PB Storage		
	15 TB RAM	50 Gb/s Connectivity	CLUDERA	

Selfish benefit: Being smart and efficient and professional

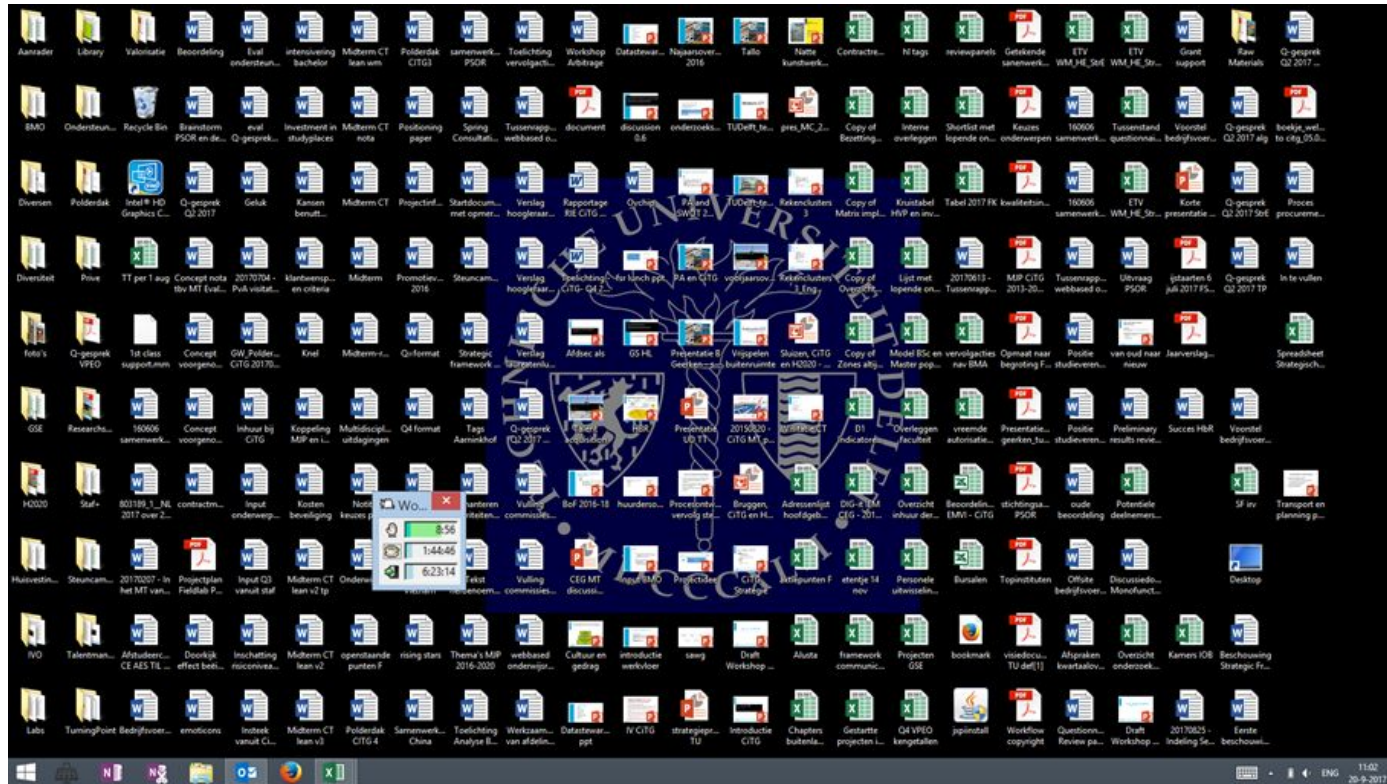


- What if someone asks you for data supporting your publication?
- What if someone asks you for data supporting your publication, 5 year after publication?
- What if the request comes 10 years later?

Forget others, what if YOU need to revisit that data?



Recognise this?



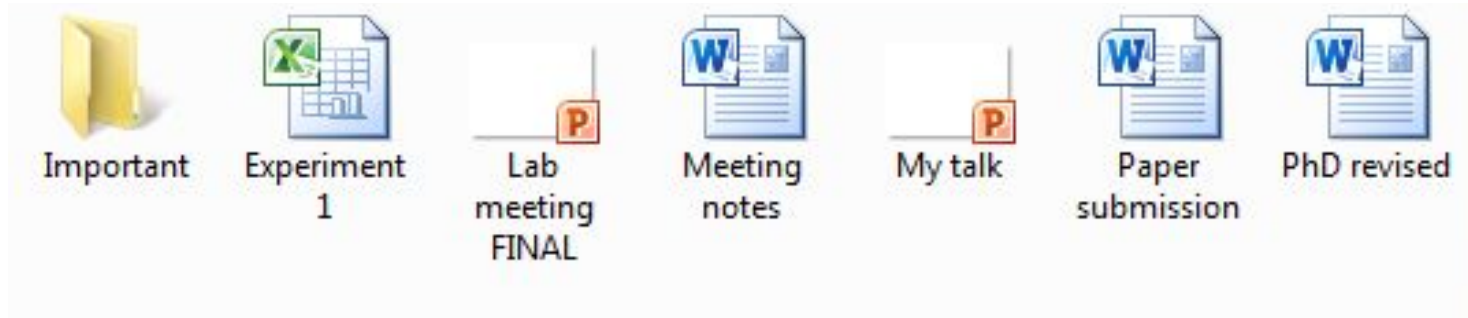
And this?



Copyright:

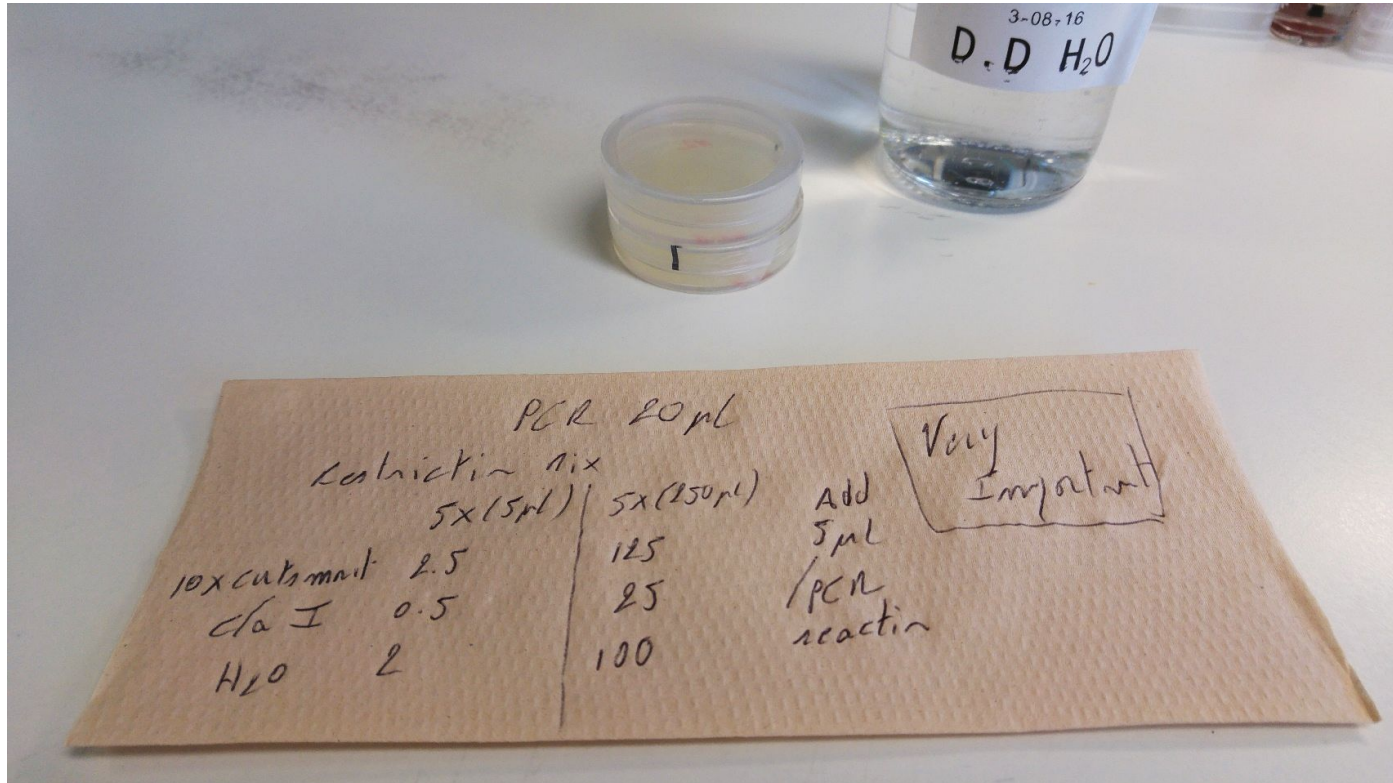
<http://10pm.com/>

And this..



In three years would you recognise these?

Or Maybe..



Vincent Gaggioli

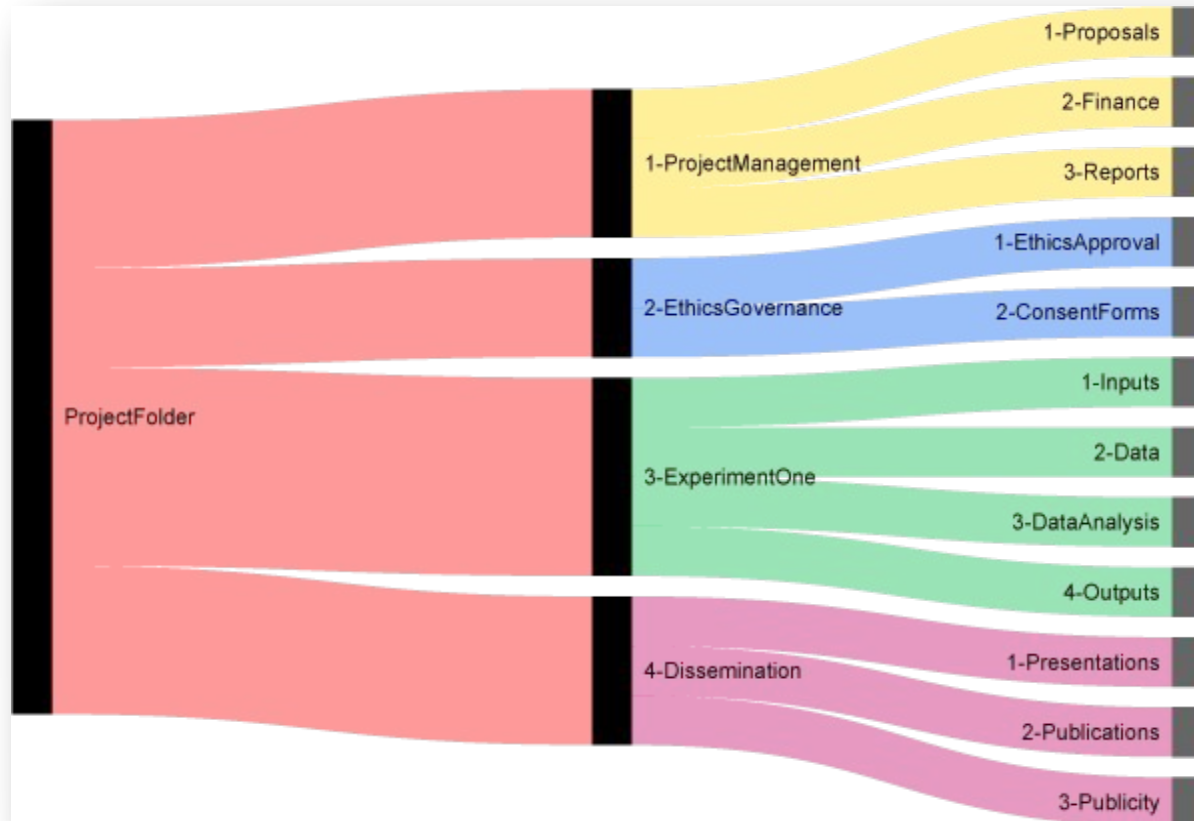


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Data organisation: Tips

- Consistent
- Meaningful to you and your colleagues
 - *Think about the continuity of your research*
- Would you be able to easily find your own data files?
- Would your colleague be able to easily find and understand your data files?
- Critically look at your files (and clean them if needed!) once a week

Folder organisation



Copyright: http://nikola.me/folder_structure.html

File naming: Human and machine friendly

TILS Document Naming Convention

Document naming for the TILS Division should follow this convention:

GDL_TILSDocNaming_V1_20090612.docx

A prefix shows the document type

The document title describes the content

The version number

The date in the format yyyymmdd

http://www.data.cam.ac.uk/files/gdl_tilsdocnaming_v1_20090612.pdf

Selfish benefit: Increasing impact

Who looks into your data set? Google does!



Google Search

I'm Feeling Lucky



Publish your presentations



September 4, 2018

Presentation Open Access

Open science in a nutshell: What's in for me?

 Kurapati, Shalini;  de Jong, Michiel

"Open science in a nutshell" is a presentation given by Shalini Kurapati and Michiel de Jong to PhD students at the Faculty of Technology, Policy and Management at TU Delft on 7 September 2018.

Abstract

Shalini will talk about the benefits of data management and the motivation behind data sharing during the PhD research cycle and offer some practical tips on these topics. She will also throw some light on the available resources, training and support available for PhD students with regards to disciplinary specific data management.

Michiel will elaborate on how to create impact with open science and how open science can help increase your web presence. He will introduce several platforms which can help you showcase your work (including social media tools).

The sidebar displays statistics for the presentation. It shows 2,142 views and 410 downloads. Below this, there is a circular progress indicator showing 39 items, with a link to 'See more details...'. At the bottom, there is a list of social media engagement: 'Tweeted by 49', 'On 1 Facebook pages', 'Mentioned in 1 Google+ posts', and '1 readers on Mendeley'.


<https://doi.org/10.5281/zenodo.1409027>



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Publish your data in a certified repository







4TU.Centre for Research Data

  Contact | Terms of use | Login

Dataset | Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem" by De Paoli et al (PNAS 2017)

▶▶▶▶▶ Link/cite as <https://doi.org/10.4121/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f> | full citation

▼ go to DATA section ▼

title	?	Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem" by De Paoli et al (PNAS 2017)
creator	?	 van de Koppel, J. (Johan)
creator	?	 de Paoli, H. (Hélène)
contributor	?	 Herman, P.M.J. (Peter)
contributor	?	NIOZ Royal Netherlands Institute for Sea Research, Department of Estuarine and Delta Systems, and Utrecht University
contributor	?	 Silliman, B.R. (Brian)
contributor	?	van den Berg, A. (Aniek)
contributor	?	van der Heide, T. (Tjisse)
date accepted	?	2017-06-12
date created	?	2017-04-11
date published	?	2017
description	?	This dataset contains the experimental data that is published in the paper "Behavioral self-organization underlies the resilience of a coastal ecosystem", with the above contributors as authors, published in the Proceedings of the National Academy of Science of the USA. The data was obtained during the Waddenseleutels and Mosselwad projects. The current dataset contains the raw data and R scripts for analysis and for the figures in that manuscript.
language	?	en
publisher	?	NIOZ Royal Netherlands Institute for Sea Research
spatial coverage	?	Intertidal flats inc. oyster/mussel reefs south of Schiermonnikoog, Netherlands ▶ The experiments were conducted on mussel beds situated at land-bound intertidal flats to the south of Schiermonnikoog, the Netherlands (location: 53.455, 6.147 DD)
subject	?	Mussel beds • Mussels • Restoration • Spatial ecology • Spatial patterns
▲ in collection	?	General collection of datasets
time coverage	?	years 2012-2013
related publication	?	 Behavioral self-organization underlies the resilience of a coastal ecosystem (article, 2017)
licence	?	 General terms of use

DATA

 Dataset files (80.9 KiB) >> [download complete dataset \(zip\)](#) | [download separate files](#)

+| bag-info

+| contents of this dataset, 13 files

<< more info...

Home

Upload datasets

Personal page



» Search in Data

» Search in "info"

U Delft

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<https://doi.org/10.4121/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f>



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Track the impact



Behavioral self-organization underlies the resilience of a coastal ecosystem

H de Paoli, T van der Heide... - Proceedings of the ..., 2017 - National Acad Sciences

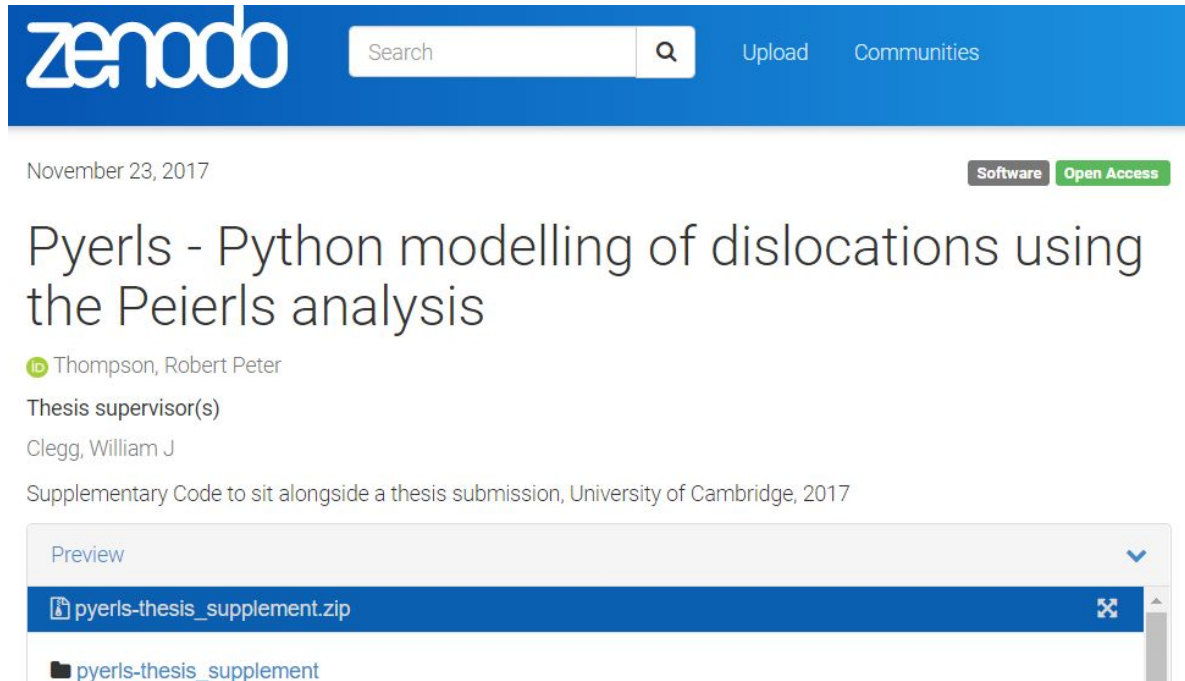
Abstract Self-organized spatial patterns occur in many terrestrial, aquatic, and marine ecosystems. Theoretical models and observational studies suggest self-organization, the formation of patterns due to ecological interactions, is critical for enhanced ecosystem resilience. However, experimental tests of this cross-ecosystem theory are lacking. In this study, we experimentally test the hypothesis that self-organized pattern formation ...

Cited by 2 All 6 versions Web of Science: 1 Cite Save

 Create alert



Publish your code



The screenshot shows the Zenodo website interface. At the top is a blue navigation bar with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. Below the navigation bar, the date 'November 23, 2017' is displayed on the left, and 'Software' and 'Open Access' tags are on the right. The main title of the repository is 'Pyerls - Python modelling of dislocations using the Peierls analysis'. Below the title, the author is listed as 'Thompson, Robert Peter' with an ORCID icon, followed by 'Thesis supervisor(s) Clegg, William J'. A description reads 'Supplementary Code to sit alongside a thesis submission, University of Cambridge, 2017'. A file preview section shows a file named 'pyerls-thesis_supplement.zip' and a folder named 'pyerls-thesis_supplement'.

<https://doi.org/10.5281/zenodo.1065538>

You can event make your
github code citable



Increase your funding chances

Winning Horizon 2020 with Open Science

Grigorov, Ivo; Davidson, Joy; Donnelly, Martin; Jones, Sarah; Elbaek, Mikael

Investing in research towards solutions for Societal Challenges is a key priority of the EU Innovation Union[1], and the EC has placed focus on "Open Innovation, Open Science and Open to the World"[2] as a strategy to make the EU leader in Research & Innovation.

Open Science is about removing all barriers to full sphere basic research knowledge and outputs (research data, research code, publications, policy briefs), and thus feeding Open Innovation and the knowledge-based economy. The concept is central to EU's Responsible Research and Innovation philosophy[3], and removing barriers to basic research measurably contributes to the EU's Blue/Green Growth Agenda[4]. Despite the potential of the internet age to deliver on that promise only 50% of today's basic research is freely available[5].

The workshop will demonstrate how and why Open Science can be a key tool for research managers formulating and managing grant proposals.

Learning Outcomes follow FP7 FOSTER Open Science Learning Objectives (<http://dx.doi.org/10.5281/zenodo.15603>) :

- Understand EC's Open Science Agenda priorities;
- Gain insight into what is, and will be, mandated on access to research, and data management;
- Be capable to integrate Open Science in the research concept, and its impact;
- Understand Open Science's impact on EC Evaluation process based on examples from 2014-2015.

<https://zenodo.org/record/46602#.XbCnKegzZPY>



Helps you while writing papers

The screenshot shows a web browser displaying a PLOS Medicine article. The URL is journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1001789. The page features a navigation bar with 'Browse', 'Publish', and 'About' links, along with a search bar and a 'Sign In' button. Below the navigation bar, there are buttons for 'Save' (1) and 'Citations' (2). The main content area is divided into sections: Discussion, Supporting Information, Acknowledgments, Author Contributions, References, Reader Comments (0), Media Coverage (1), and Figures. The 'Supporting Information' section is highlighted, showing links to 'S1 Protocol. Sweave file for survival analysis.', 'S1 Table. Distribution of samples.', and 'S2 Table. Digital PCR results.'. The 'Subject Areas' section on the right lists various topics: Genome evolution, Phylogenetic analysis, Chemotherapy, Evolutionary genetics, Genomic medicine, Cancer treatment, and Neurofibromatosis. The article text is partially visible, discussing the development of resistant disease and the use of the MEDICC algorithm for high-resolution whole genome copy number profiles.

Capture all the complexity of your research beyond just text and pdf



Being world class

Every major university in the US and Europe has embraced Open Science and RDM!

MIT: <https://libraries.mit.edu/data-management/>

Cambridge: <https://www.data.cam.ac.uk/>

Caltech: <https://libraries.mit.edu/data-management/>

ETH: <https://ethz.ch/services/en/service/a-to-z/research-data.html>

if you permit me,

TU Delft:

<https://www.tudelft.nl/en/library/current-topics/research-data-management/research-data-management/data-stewardship/>



But.. what about my career



Things are changing.. slowly but surely!

Top journals need it already!

nature > nature research > editorial policies > reporting standards and availability of data, materials, code and protocols

nature research



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Reporting standards and availability
of data, materials, code and

Reporting standards and availability of data, materials, code and protocols

An inherent principle of publication is that others should be able to replicate and build upon the authors' published claims. A condition of publication in a Nature Research journal is that **authors are required to make materials, data, code, and associated protocols promptly available to readers without undue qualifications.** Any restrictions on the availability of materials or information must be disclosed to the editors at the time of submission. Any restrictions must also be disclosed in the submitted manuscript.



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DI TORINO

Decision makers are pushing for change



Evaluation of Research Careers fully acknowledging Open Science Practices

Rewards, incentives and/or recognition for researchers practicing Open Science

https://cdn1.euraxess.org/sites/default/files/policy_library/os-rewards-wgreport-final_integrated_0.pdf




Funders might prefer those who practise Open Science.. soon















Open Science Career Assessment Matrix (OS-CAM)	
<i>Open Science activities</i>	<i>Possible evaluation criteria</i>
RESEARCH OUTPUT	
Research activity	Pushing forward the boundaries of open science as a research topic
Publications	Publishing in open access journals Self-archiving in open access repositories
Datasets and research results	Using the FAIR data principles Adopting quality standards in open data management and open datasets Making use of open data from other researchers
Open source	Using open source software and other open tools Developing new software and tools that are open to other users
Funding	Securing funding for open science activities



There's a whole collection of academic jobs mentioning OS

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Academic job offers that mentioned op...
Files

<https://osf.io/7jbnt/>

Name ^ ▾	Modified ^ ▾
Academic job offers that mentioned open sci...	
-  OSF Storage (United States)	
 180911_OTTT_Sensory_Sciences_deuts...	2019-03-01 08:24 AM
 180911_OTTT_Sensory_Sciences_englis...	2019-03-01 08:24 AM
 2019_HH-Uni_W2-3_Sportpsychologie.p...	2019-05-21 08:26 AM
 Aachen_W3_Prof_Angewandte_comput...	2019-04-10 11:52 AM
 AllgemeinePsychologieUHH.pdf	2018-10-12 08:51 AM
 Announcement_W3_Professur_SocialPs...	2018-01-18 02:25 PM
 Bielefeld_Psychologie_Sportwiss_W2_P...	2019-04-23 11:53 AM
 Charite_Berlin.png	2018-03-10 09:08 AM
 Dresden_WiMi.pdf	2018-07-13 12:37 PM
 Keele_Lecturer_2018.pdf	2018-07-11 01:14 PM
 Leipzig-W2_Professorship_in_Psycholog...	2019-05-17 06:11 AM



There is no looking back really



Open Science is
the only way
forward in the
post truth world

Comic by
<https://thenorwichradical.com/2017/01/12/post-truth-politics-and-the-war-onintellect/>

Recap

- Open Science is just science done right
- Plenty of selfish benefits to researchers
 - Avoiding disaster
 - Being smart and efficient
 - Visibility and impact
 - Trust and reputation
 - Increasing funding and job chances
 - Being world class
 - Being a front runner
 - Preparing for changes to come
- Some practical tips and tricks



My role at PoliTo

Helping Dr. Federica Cappelluti, rector's advisor on open science on:

- Training and Awareness on OS and RDM
- Demonstrating value and driving cultural change towards open science
- Collaborating with university stakeholders
- Design of a policy roadmap
- Advice (as much as I can) on all data related matters of Open Science
- To be fully researcher oriented



Future events in our plan

- Workshop on FAIR data and Data Management Plans
- Personal Data Management
- Industry collaborations and Open Science
- Data and Software Carpentries
- ... and many more
- We'll keep you informed!



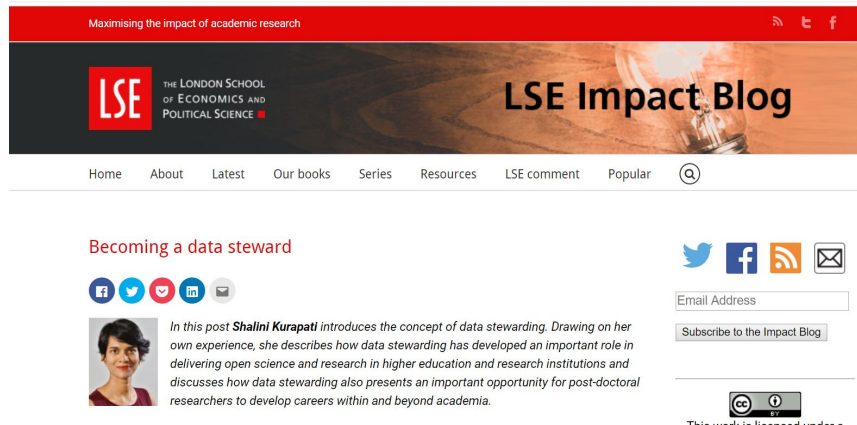
Contact

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shalini.kurapati@polito.it

 @shalini_kr

PoliTo working days: Tue, Thu




Maximising the impact of academic research


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
Becoming a data steward



 In this post **Shalini Kurapati** introduces the concept of data stewarding. Drawing on her own experience, she describes how data stewarding has developed an important role in delivering open science and research in higher education and research institutions and discusses how data stewarding also presents an important opportunity for post-doctoral researchers to develop careers within and beyond academia.

Email Address

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<https://blogs.lse.ac.uk/impactofsocialsciences/2019/04/30/becoming-a-data-steward/>



Thank you!

GOODHART'S LAW

WHEN A MEASURE BECOMES A TARGET,
IT CEASES TO BE A GOOD MEASURE

IF YOU
MEASURE
PEOPLE ON...

NUMBER OF
NAILS MADE

WEIGHT OF
NAILS MADE

THEN YOU
MIGHT GET

1000'S OF
TINY NAILS

A FEW GIANT,
HEAVY NAILS



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