Helping Researchers Publish 2: sciences, technology, engineering and mathematics

Wednesday 08 February 2017, Betty and Gordon Moore Library, Cambridge

by Open Data Cambridge   a day ago   15 Views

The second in the Office of Scholarly Communication’s series exploring resources to help with the process of publishing your research in STEM disciplines - from recording observations to editing to peer review.

This session offered the chance to learn about available tools and options in publishing and reviewing, and ask questions of the experts.
The presentations addressed:

- returning scientific publishing to the scientists: innovative approaches to publishing and peer-reviewing single observations (Laurence Rajendran, ScienceMatters)
- post publication peer review, open peer review and preprints (Nikolaus Kriegeskorte)
- using collaborative writing tools for your papers (Overleaf)
- peer review FAQs (Jennifer Wright, CUP)
- connecting active research management and research publishing (Nigel Goddard, Research Space)
- peer review and the benefits of openness (Tom Culley, Publons)

Thanks to Overleaf, Publons and Research Space for their sponsorship of this event.

A full programme with speakers' details is available here: osc.cam.ac.uk/files/pub_pro...
Thanks @LoganCorina! We're looking forward to talking about peer review and publishing today at #openpub2017 twitter.com/LoganCorina/st…
9:25 AM - 8 Feb 2017

We are getting set up at our Helping STEM researchers publish event, you can follow on the live feed: cam.adobeconnect.com/osc2/#openpub2017
9:32 AM - 8 Feb 2017

Our Helping Researchers Publish event is starting! We'll be live tweeting #openpub2017
9:37 AM - 8 Feb 2017

Lawrence Rajendran from ScienceMatters is up first #openpub2017
9:39 AM - 8 Feb 2017
A great cowboy analogy to start us off! #openpub2017

We are starting with Lawrence Rajendran from @SciMts talking about the problems with the problems of irreproducibility #openpub2017

Inspiring to see Lawrence Rajendran from @SciMts speaking @Cambridge_Uni about reproducibility crisis #openpub2017 @CamOpenData
Looking at the good, the bad and the ugly of science publishing #openpub2017 - starting with fraudulent behaviour
9:46 AM - 8 Feb 2017

Current publishing model encourages researchers to make data 'fit' narrative in order to get published in the 'right' journals #openpub2017
9:47 AM - 8 Feb 2017

We are happy to share the praise but who wants to share the blame? When papers are rejected, 1st author is usually blamed @SciMts #openpub2017
9:48 AM - 8 Feb 2017

Lawrence from @SciMts giving examples from a range of disciplines of papers being retracted due to fraudulent or missing data #openpub2017
9:51 AM - 8 Feb 2017
Faking data or #alternativefacts? Retraction Watch is monitoring fraudulence and irreproducibility in science publishing #openpub2017
9:52 AM - 8 Feb 2017

Great-paper @sciencemagazine retracted because the author refused to share the raw data: retractionwatch.com/2015/05/28/sci... Lawrie @SciMts #openpub2017
9:52 AM - 8 Feb 2017

Prof Rajendra @SciMts is talking about the irreproducibility of scientific data #openpub2017
9:53 AM - 8 Feb 2017

Numerous examples of scientists publishing fraudulent data. Let's change the reward system and stop this! #openpub2017
9:53 AM - 8 Feb 2017
Why do researchers fake data? There's so much pressure... and it's alarming - esp. in translational research - Lawrie @SciMts #openpub2017
9:55 AM - 8 Feb 2017

$28bn/year cost from irreproducible life sciences research #openpub2017
9:56 AM - 8 Feb 2017

Why would scientists cheat? awesome data should be its own reward but pressure 2 sensationalise research is sometimes too great #openpub2017
9:56 AM - 8 Feb 2017

$28 billion - the cost of irreproducible life sciences research in the US every year. $28 BILLION! #openpub2017
9:56 AM - 8 Feb 2017
Prof Lawrence Rajendran @SciMts talking about publishing process and peer-review #openpub2017
9:57 AM - 8 Feb 2017

Sad, but true: "The incentives to be FIRST might be stronger than incentives to be RIGHT" Lawrie @SciMts #openpub2017
9:59 AM - 8 Feb 2017

'In many labs, the incentives to be first can be stronger than the incentives to be right' ow.ly/RNxG2 #openpub2017
10:00 AM - 8 Feb 2017
Need for narrative in articles makes it hard to share observations and raw data that doesn't fit #openpub2017

Subscriptions are barriers to knowledge if you're not at a Uni with lots of £. Something some of our researchers forget I think #openpub2017

The problem is that researchers are pushed for their findings to fit a story. But science are facts, not stories-Lawrie @SciMts #openpub2017

Fleming wouldn't have been published if he'd tried to 'package' the discovery of penicillin today! #openpub2017
Interesting Q: If Alexander Fleming submitted a paper on his penicillin discovery today what would the reviewers say?

#openpub2017

10:05 AM - 8 Feb 2017

@SciMts publishes single observations without prioritising the full narrative. #openpub2017

10:07 AM - 8 Feb 2017

Lawrie @SciMts says that no - not without the molecular mechanism and the proof of impact on the population #openpub2017 twitter.com/CamOpenAccess/...

10:07 AM - 8 Feb 2017

The solution to the current publishing problem: publish single observations not sensational narratives #openpub2017

10:07 AM - 8 Feb 2017
@SciMts is different: publishing single observations, triple blind peer-review - it is science and communication that matter! #openpub2017
10:09 AM - 8 Feb 2017

Anecdote: reviewer says paper could be improved if the female authors recruited a male co-author. Wowzers! #openpub2017
10:10 AM - 8 Feb 2017

Triple blind peer-review is key - because it should be science that matters! Not who you are or who you are not. Lawrie #openpub2017
10:10 AM - 8 Feb 2017
Triple-blind peer review used by @SciMts avoids human bias such as ‘this paper would be better with the input of a male author’ #openpub2017

10:11 AM - 8 Feb 2017

Publishing process at @SciMts #openpub2017

10:12 AM - 8 Feb 2017
New Metrics for reproducibility presented by Prof Rajendran.
Watch it now @CamOpenData #openpub2017
10:15 AM - 8 Feb 2017
Cambridge OpenAccess
@CamOpenAccess

Visualising reproducibility studies at ScienceMatters
#openpub2017
10:15 AM - 8 Feb 2017

Marta Teperek
@martateperek

Observations can be linked into stories a posteriori=>@SciMts allows researchers to be rewarded for doing reproducible research #openpub2017
10:15 AM - 8 Feb 2017

Open Data Cambridge
@CamOpenData

~2 week turnaround time for observations submitted to @SciMts #openpub2017
10:18 AM - 8 Feb 2017
Submissions to ScienceMatters have to detail limitations and alternative explanations - refreshingly honest #openpub2017

Get observations out there fast with @SciMts #openpub2017
twitter.com/camopendata/st…

I like the idea of asking researchers to spell out alternative explanations & limitations when submitting to @SciMts #openpub2017

Niko Kriegeskorte from the MRC Cognition & Brain Sciences Unit in Cambridge is up next #openpub2017
Second speaker Nikolai Kriegeskorte talking about Open Access and Open Evaluation from a researcher's point of view

#openpub2017

10:28 AM - 8 Feb 2017

Thank you, Lawrie @SciMts for a truly inspiring talk!

@CamOpenData @CamOpenAccess #openpub2017

10:28 AM - 8 Feb 2017

Up next we have Niko Kriegeskorte from MRC Cognition and Brain Sciences talking about researchers' perspectives on publishing #openpub2017

10:29 AM - 8 Feb 2017
Niko is speaking on reforming the publishing system with open access and open evaluation #openpub2017
10:29 AM - 8 Feb 2017

Open as transparent, usable by others, efficient, more community checking & cognition, faster scientific progress #openpub2017
10:30 AM - 8 Feb 2017

Flow of info needs to be better in all aspects of open - data, code, papers and reviews #openpub2017
10:31 AM - 8 Feb 2017

Four pillars of Open Science to improve science communication: Open Data, Open Code, Open Papers and Open Reviews - Niko #openpub2017
10:31 AM - 8 Feb 2017
Move to open is not necessarily simple - lots of change in process and culture, something we aim to help researchers with #openpub2017
10:31 AM - 8 Feb 2017

How can open science work? The four pillars of open science: open data, open code, open paper and open reviews #openpub2017
10:32 AM - 8 Feb 2017
Love Niko's funny comparison of researchers to sheep! :) Donate their wool to publishers and then pay for the woolen jumper! #openpub2017
10:34 AM - 8 Feb 2017

A brilliant explanation of the current publishing system. Researchers need to stop being sheep! #openpub2017
10:34 AM - 8 Feb 2017
Interesting open access analogy of sheep wool and research paper. How it works now! #openpub2017

Publication system has 2 functions - access to papers & evaluation of papers. That means we need open access & open evaluation #openpub2017

Preprint servers as a good way to get instant OA with a DOI for free -Niko #openpub2017
Preprint servers provide a great solution to OA for free with DOIs
#openpub2017
10:40 AM - 8 Feb 2017

Researchers are often unsure if they are allowed to post preprints - "would the publisher allow?..." @NKriegeskorte
#openpub2017
10:41 AM - 8 Feb 2017

Preprints have benefits for journals as well as authors - more citations, fewer errors... #openpub2017
10:42 AM - 8 Feb 2017

In fact, journals allow it and benefit from pre-prints - impact factor boost for the journal due to more interest! @NKriegeskorte
#openpub2017 twitter.com/martateperek/s...
Interesting take on preprints - should benefit journals as researchers aware earlier of paper so more early citations  
#openpub2017
10:43 AM - 8 Feb 2017

@CamOpenAccess I amended it a little :P #openpub2017
10:43 AM - 8 Feb 2017

@NKriegeskorte recommends that if you're still uncertain, you can check the journal's policy on sherpa.ac.uk/romeo/index.php #openpub2017 twitter.com/martateperek/s...
10:44 AM - 8 Feb 2017
Benjamin of posting preprints: the culture is changing, so be a leader not a sheep @NKriegereskorte openpub2017
10:46 AM - 8 Feb 2017

Preprints can be good for you as well as discipline - research is changing and being open early could be advantageous for you openpub2017
10:46 AM - 8 Feb 2017

Quick reminder that if you would like to follow along with our openpub2017 event this morning you can at cam.adobeconnect.com/osc2/
10:48 AM - 8 Feb 2017

Another benefit of posting preprints: errors get caught earlier. Better than retracting your Nature paper @NKriegereskorte openpub2017
10:49 AM - 8 Feb 2017
Preprints can help you establish precedence - you publicly claim your results earlier #openpub2017
10:50 AM - 8 Feb 2017

Post a preprint, pick up any errors, avoid the embarrassment of having to retract a published paper. Simple! #openpub2017
10:50 AM - 8 Feb 2017

When should you post a preprint? #openpub2017
10:52 AM - 8 Feb 2017
So just before submission to the journal u have the lowest risk for getting scooped but the benefits as shown in the pic

#openpub2017

10:54 AM - 8 Feb 2017

Reviews in the current system: (mostly) secret, selfish & decide about publication. The future: open, selfless & evaluative

#openpub2017

10:56 AM - 8 Feb 2017

#openpub2017 twitter.com/CamOpenData/st...
Overleaf are kicking off the next session with their collaborative writing tool #openpub2017

We've replenished ourselves with coffee and are off again with Villy and Ali from @overleaf #openpub2017

There has been a global trend towards more and more collaborative writing over the last 20 years #openpub2017

The entire lifecycle of publication can be improved with collaborative writing tools @overleaf #openpub2017
Collaboration can be a painful process, @overleaf aims to avoid this situation: phdcomics.com/comics/archive… #openpub2017

@martateperek @senorcthulhu are you live streaming #openpub2017 at the moment? I just connected but can see/hear anything?

Many thanks to @NKriegeskorte for the fantastic talk about the costs of publishing, the benefits of pre-prints & open peer-review #openpub2017

Did you know the Uni of Cam is trialling Overleaf? Sign up for a free pro account overleaf.com/edu/cambridge #openpub2017
Marta Teperek
@martateperek

@lgatt0 @senorcthulhu did you trying using cam.adobeconnect.com/_a1303311593/o… as guest? #openpub2017
11:28 AM - 8 Feb 2017

Owen Parsons
@oeparsons

Watching a demo of @overleaf at #openpub2017. Mind blown!
11:32 AM - 8 Feb 2017

Marta Teperek
@martateperek

Impressive @overleaf demo- collaborative writing integrated with Git and citation software #openpub2017 sign up here overleaf.com/edu/cambridge
11:34 AM - 8 Feb 2017

University of Cambridge - Overleaf
The online platform for scientific writing. Overleaf is free: start writing now with one click. No sign-up required. Great on your iPad. overleaf.com

Open Data Cambridge
@CamOpenData

Lots of integrations between @overleaf and preprint servers including @biorxivpreprint to make it easy to submit #openpub2017
11:35 AM - 8 Feb 2017

Great news - you can now also easily link your @ORCID_Org with your @overleaf account - automatically populates author info! #openpub2017

Don't forget to link your ORCID account to your Overleaf one! @overleaf #openpub2017

Counting on @CamOpenData or @martateperek et al. to storify #openpub2017 as I don't have time to follow today! #openaccess #openscience

Up next: Jennifer Wright from CUP talks about peer review #openpub2017
And some useful practical tips on using @overleaf from a researcher: quantixed.wordpress.com/2017/01/24/tip… #openpub2017

Tips from the blog XI: Overleaf
I was recently an external examiner for a PhD viva in Cambridge. As we were wrapping up, I asked "if you were to do it all again, what would..."

How prepared were you when you carried out your first peer review? We need to provide more training for grad students and ECRs #openpub2017

Jennifer Wright from CUP is recommending the @senseaboutsci peer review booklet senseaboutscience.org/activities/pee… #openpub2017
The session on Peer Review FAQs from CUP is not being recorded by request, so please do keep tweeting if you are in audience #openpub2017

Reference list as most common source for finding peer reviewers - then look at related research groups etc #openpub2017

Fantastic database of FAQs received by @CambridgeUP from postdocs @Cambridge_Uni about peer-review! #openpub2017 could you publish them?

If you want to be a peer reviewer keep your online profiles up to date so editors can find you #openpub2017
Would you like to become a peer-reviewer for @CambridgeUP?
Simply email authorhub@cambridge.org #openpub2017
11:50 AM - 8 Feb 2017

How to become a peer reviewer? Publish! Keep profiles up to date, be active and ask - email authorhub@cambridge.org #openpub2017
11:51 AM - 8 Feb 2017

Should peer reviewers get paid? If so, how much? Does it improve the outcome? One researcher got paid in pens!
#openpub2017
11:53 AM - 8 Feb 2017

Jenny Wright @CambridgeUP mentions @PHDcomics story of how peer-review works #openpub2017
twitter.com/PHDcomics/stat...
11:54 AM - 8 Feb 2017
Committee on Peer Review Ethics as a good guide to thinking about the ethics of peer review
publicationethics.org/resources/guid... #openpub2017
11:55 AM - 8 Feb 2017

If you don't have the time to do the peer review then say this upfront so the editors can ask someone else #openpub2017
11:57 AM - 8 Feb 2017

British ecological society guide to peer review can help you format comments: britishecologicalsociety.org/wp-content/upl... #openpub2017
12:00 PM - 8 Feb 2017

A reviewer's job is to check the science not decide if the paper is exciting #openpub2017
12:00 PM - 8 Feb 2017
Reminder: as a reviewer judge whether SCIENCE is right or not. Not your job to assess the 'suitability for the journal'

#openpub2017
12:01 PM - 8 Feb 2017

Useful tip from @NKriegerkorte: peer-review papers which are published on pre-prints and blog about it-no secret info revealed!

#openpub2017
12:14 PM - 8 Feb 2017

Up next: Nigel Goddard from Research Space on electronic lab books and publishing #openpub2017
12:18 PM - 8 Feb 2017

Increasingly common to be able to, and be asked to, share your data in many repositories - including repository.cam.ac.uk

#openpub2017
12:25 PM - 8 Feb 2017
How does data flow from a repository to publication? Researchers still aren't used to doing this - it can seem like extra work #openpub2017

Repositories exist for sharing data but the data needs prepared for deposit which can be hard work. ELNs can provide a solution #openpub2017

Can often be difficult to get data into ELNs and then out again to repositories in usable formats - Nigel @TheConnectedLab #openpub2017
Integration between disconnected systems to make life easier - key concept of the @TheConnectedLab ELN #openpub2017 
12:29 PM - 8 Feb 2017

Thank you @JennWrights @CambridgeUP for the fantastic talk and demystifying the peer review process for us #openpub2017 twitter.com/JennWrights/st…
12:30 PM - 8 Feb 2017

Exporting data from ELNs in xml format is useful here, as the data can be ported between systems #openpub2017 twitter.com/camopendata/st…
12:32 PM - 8 Feb 2017

Research Space helps make your data portable so if you move your data can easily go with you #openpub2017
@TheConnectedLab provides integration with @Dropbox, Google Drive, @onedrive, @figshare and many more!

#openpub2017

12:33 PM - 8 Feb 2017

Gone are the days of gluing printouts of your data in your lab notebook!

#openpub2017

12:35 PM - 8 Feb 2017

Research Space is a conduit in a world full of data silos

#openpub2017 @TheConnectedLab

12:40 PM - 8 Feb 2017

And integration with Starfish system ensures that links to files work even if one moves the file to a different location

#openpub2017 twitter.com/CamOpenAccess/…

12:40 PM - 8 Feb 2017
Final speaker of the day: Tom Cully from Publons
#openpub2017
12:43 PM - 8 Feb 2017

If you would like to be part of our electronic lab notebooks pilot, sign up to our mailing list: lists.cam.ac.uk/mailman/listin...
#openpub2017
12:44 PM - 8 Feb 2017

Peer review is key for the quality control of research but there are minimal incentives to do it and do it well #openpub2017
12:48 PM - 8 Feb 2017

Our final speaker is Tom Culley @Publons talking about how peer review fits in the 'skewed system' of research communication #openpub2017
12:49 PM - 8 Feb 2017
4m reviewers doing 7m reviews/year taking 35 million hours

#openpub2017

12:50 PM - 8 Feb 2017

TIL how @Publons got their name-from the salami-slicing model of chopping research into the minimum unit of publishable material #openpub2017

12:51 PM - 8 Feb 2017

Get a free Publons profile to track, verify and showcase your reviews publons.com #openpub2017

12:53 PM - 8 Feb 2017

As well as getting credit for your peer reviews @Publons allows you to record your editorial contributions #openpub2017

12:53 PM - 8 Feb 2017
Publons are collecting data on how many reviewers want their reviews to be named and open. Interesting stuff! #openpub2017

12:54 PM - 8 Feb 2017

You can export your peer review record from @publons to include in CVs and for promotion reviews #openpub2017

12:58 PM - 8 Feb 2017

Your Peer review profile is a measurable output of your research activity publons.com/community/care… #openpub2017

12:58 PM - 8 Feb 2017
Great to hear! @Publons #openpub2017

There is now a peer review league table from @Publons data - Cambridge comes in 10th! #openpub2017

Publons can also be used for post-publication review. Evaluation doesn’t stop at publication. #openpub2017
Researchers complain for not being asked to peer-review. Editors say it's tough to find them... @Publons is the solution! #openpub2017

Publons help ECRs demonstrate their competency for reviewing by providing training and verification. publons.com/academy #openpub2017

Academy — Publons A great way to start building your reputation as a reviewer and editor #openpub2017 home.publons.com/community/acad...

@CamOpenData @Publons academy will be launching soon where you can get training and register interest in peer reviewing #openpub2017
Good Q from @JennWrights: is there danger of a review 'impact factor' developing ie reviewers only want 2review 4sexy journals? #openpub2017

1:11 PM - 8 Feb 2017

We've now had all the talks in our Helping Researchers Publish event. Recording will be available soon. Time for lunch first!
#openpub2017

1:18 PM - 8 Feb 2017

Seriously saw #openpub2017 trending and thought someone somewhere was actually opening a pub rather than closing one to make way for flats

2:04 PM - 8 Feb 2017

And some useful practical tips on using from a researcher: #openpub2017 MORE >> sublnk.info/SHipGjy

A DAY AGO