Locked up science



Tearing down paywalls in scholarly communication

Claudia Frick - @FuzzyLeapfrog

#35c3



Science





Science ...?

Education and decision-making

Science ...?

- Education and decision-making
- Health and diseases

Science ...?

- Education and decision-making
- Health and diseases
- Environmental challenges

Restricting access to science



Benefit for society







Access to science

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"Open Access describes the goal of making global knowledge accessible and re-usable in digital form without financial, technical or legal barriers."

Roadmap



How can we tear down the paywalls?

Roadmap



What does the most common way of scientific publishing look like?

How can we tear down the paywalls?



















































Market shares of major academic publishers





Profit margins of major academic publishers

Profit	Company	Industry	Holcombe
10%	BMW	automobiles	Alex
23%	Rio Tinto	mining	F-km CC-BY
25%	Google	search	nttp://wp.me/ph4iF-km
2 9 %	Apple	premium computing	http://w
35%	Springer	scholarly publishing	
37%	Elsevier	scholarly publishing	

Alex Holcombe (2015) <u>https://alexholcombe.wordpress.com/2015/05/21/scholarly-publisher-profit-update/</u>

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Global journal subscription spendings

EUR 7,600,000,000 per year

Schimmer, Geschuhn & Vogler (2015) http://doi.org/10.17617/1.3

Harvard University says it can't afford journal publishers' prices

University wants scientists to make their research open access and resign from publications that keep articles behind paywalls



A memo from Harvard's faculty advisory council said major scientific publishers had made scholarly communication 'fiscally unsustainable'. Photograph: Corbis

What can I do?

1. Tear down the paywalls

What can I do?

- 1. Tear down the paywalls
- 2. Become an academic publisher



Roadmap



What does the most common way of scientific publishing look like?

How can we tear down the paywalls?

Approaches to scientific publishing without paywalls



The players





Library



Scientists produce peer-review consume

Funders provide money

Libraries grant access

Publishers publish

The players





Library



Scientists produce peer-review consume Funders provide money Libraries grant access Publishers publish

The players



Approaches for scientists

















Secondary Publication

Scientist

- arXiv
- Institutional repositories
- ResearchGate



Green Open Access

- arXiv
- Institutional repositories
- ResearchGate



Copyright transfer agreement

Copyright transfer agreement



Copyright transfer agreement



Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- ...

Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- ...

Place

- Personal website
- Funder's repository
- arXiv
 - ...

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Green Open Access

Version

- Preprint
- Postprint
- Publisher's Version
- ...

Place

- Personal website
- Funder's repository
- arXiv

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Time frame

Embargo period of

- 6 months
- 12 months
- 4 years after publication





Green Open Access

Time frame

Embargo period of

- 6 months
- 12 months
- 4 years

after publication

Green Open Access



Ask your librarian

Next time

Gold Open Access

- Open Access Journal
- No paywall
- Creative Commons Licence















Approaches for scientists






Library

Scientists produce peer-review consume Funders provide money

Libraries

grant access



Platinum Open Access Repositories Plan S Flipping arXiv SCOAP3 **Project DEAL** Funding **Policies**

Platinum Open Access Repositories Plan S Flipping arXiv SCOAP3 Project DEAL Funding **Policies**

Project DEAL

- Commissioned by the Alliance of Science Organizations in Germany / Allianz der deutschen Wissenschaftsorganisationen
- Driven by scientists and librarians
- Implementation of nationwide consortium agreements with major academic publishers

• Participating institutions have access to the entire portfolio of journals from the publisher

- Participating institutions have access to the entire portfolio of journals from the publisher
- All publications with a corresponding author from the participating institutions will be published Open Access Series with the publisher

- Participating institutions have access to the entire portfolio of journals from the publisher
- All publications with a corresponding author from the participating institutions will be published Open Access Sum with the publisher

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Fowler & Meijer (2018) <u>https://doi.org/10.5281/zenodo.1404031</u>

Publish & Read

- Participating institutions have access to the entire portfolio of journals from the publisher
- All publications with a corresponding author from the participating institutions will be published Open Access Series with the publisher.

Up to 16,500 publications per year with Elsevier



State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL

State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL
Elsevier	

State of the negotiations

Wiley	Ongoing negotiations with DEAL
Springer	Ongoing negotiations with DEAL
Elsevier	DEAL currently suspended the negotiations





Scientists

Libraries





Scientists

Libraries

... stop their cost-free work for Elsevier. authorship, peer review, editorship



Library

Scientists

... stop their cost-free work for Elsevier. authorship, peer review, editorship

Libraries

... cancel subscriptions to Elsevier journals.

200 German institutions are currently without Elsevier subscriptions.



Scientists

... stop their cost-free work for Elsevier. authorship, peer review, editorship

... use alternative ways to get access.

Library

Libraries

... cancel subscriptions to Elsevier journals.

200 German institutions are currently without Elsevier subscriptions.

... support alternative ways to get access.

Repositories

Scholarly sharing

Inter-library-loan

Document delivery

#icanhazpdf

Unpaywall



Library

Scientists

... stop their cost-free work for Elsevier. authorship, peer review, editorship Libraries

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Publishers and Sci-Hub





Publishers and Sci-Hub

Filed a lawsuit









SCI-HUB

Swedish ISP blocks Elsevier after blocking request for Sci-Hub

The Swedish Internet provider Bahnhof is forced by the academic publisher Elsevier to block access for users to file-sharing platforms such as Sci-Hub. In the absence of a legal alternative, Bahnhof is following the request, but is defending itself in its own very special way.

5. November 2018, 10:28 Uhr, Sebastian Grüner

Dear scientists ...

Dear scientists ...



Talk to your librarian

Unlocked Locked up science



Tearing down paywalls in scholarly communication

Claudia Frick - @FuzzyLeapfrog

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Acknowledgements

I thank all my colleagues and friends for their feedback and input for the talk, particularly this one special colleague for reviewing my English slides and my pronunciation. I also thank @islieb for the comic strip especially made for this talk.

> -8-THANK YOU



Sorry @MInkorrekt

... but this picture was just too damn good.



Roads to Open Access





Conditions

Green Open Access

Version

- Preprint
- Postprint
- Publisher`s Version
- ...

Place

- Personal website
- Funder`s repository
- arXiv

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Time frame

Embargo period of

- 6 months
- 12 months
- 4 years after publication







Further information

Subscription fee per publication

Global journal subscription spending	EUR 7.6 billion per year	
Total estimated articles output	2.0 million papers	
Calculated expenses per article (rounded)	EUR 3,800	

Elsevier

2017 financial performance

	2017 £m	2016 £m
Revenue	2,478	2,320
Adjusted operating profit	913	853
Profit margin	36.84%	36.76%

Subscription sales generated 72% of revenue

A librarian's life without Elsevier





To: All Faculty

Dear Colleagues:

As you may know, the UC Libraries are negotiating a new contract with the scholarly journal publishing giant Elsevier. We are deeply concerned with these negotiations because of the amount of money involved and the control Elsevier exerts over the intellectual efforts of UC's faculty, researchers, and staff.

UC is collectively paying Elsevier more than \$11.5 million for its journals, products, and services. In addition, countless UC faculty members, researchers, and staff members write and review articles published in those journals and serve on their editorial boards. The company's profit margin is 40%, much of it earned from your intellectual capital and unpaid work. This current situation is unsustainable for the UC system.

While these negotiations are going on, we urge you to consider:

- Declining to review articles for Elsevier journals until negotiations are clearly moving in a productive direction.
- Looking at other journal publishing options, including prestigious open access journals in your discipline.
- Contacting the publisher, if you're on the editorial board of an Elsevier journal, and letting them know that you share the negotiators' concerns.
- Using UC's open access policies to make your final pre-publication manuscript publicly accessible.

We will update you if there is any substantive news to report from the negotiations. Elsevier has begun contacting journal editors at some campuses, and its message doesn't fully represent all sides of the issue or what is being discussed in the negotiations. If you receive the Elsevier message and would like to discuss it, please contact Joseph Bristow (jbristow@senate.ucla.edu or 310-825-4173) or Ginny Steel (vsteel@library.ucla.edu or 310-825-1201).

The UC Libraries are working on <u>alternative access methods</u> should they become necessary; while we very much hope that will not be the case, we will nevertheless notify you immediately if negotiations reach that point.

Thank you for your attention to this important issue.

Sincerely,

Scott L. Waugh Executive Vice Chancellor and Provost

Joseph E. Bristow Chair, Academic Senate Distinguished Professor, English

Ginny Steel Norman and Armena Powell University Librarian

LUMCON canceled all subscriptions

LUMCON = The Louisiana Universities Marine Consortium



"So a couple of weeks ago, LUMCON made a bold move. We canceled all of our paid journal subscriptions. Every. Single. One. Of. Them." - @DrCraigMc is showing us that the "L" in @LUMCONscience also stands for "Leader"

@guertin (2018) https://twitter.com/guertin/status/1064594155052113922

Dr. M (2018) <u>http://www.deepseanews.com/2018/11/tipping-points-for-profit-scientific-publishing-and-closed-science/</u>