Altmetrics 101: A hands-on introduction

Stacy Konkiel, Altmetric.com Andrea Michalek, Plum Analytics

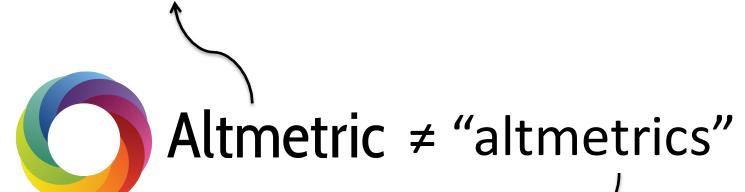
- 1 Introduction to altmetrics
- Show & tell: PlumX & Altmetric for Institutions
- **3** Hands-on exercises

4 VIVO case studies

Wrap-up

Introduction to altmetrics

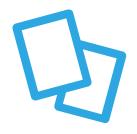
an altmetrics company



a type of metric, usually sourced from the social web, that points to attention, influence, or impact



Scholarship is changing... for the better

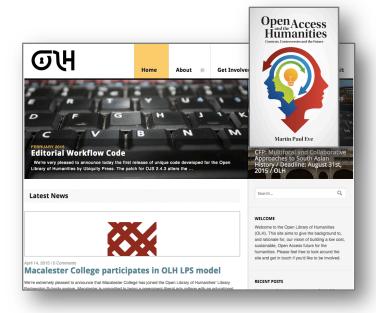


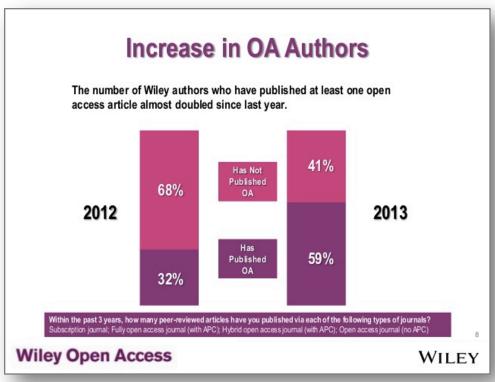
More openness More transparency More engagement

More openness



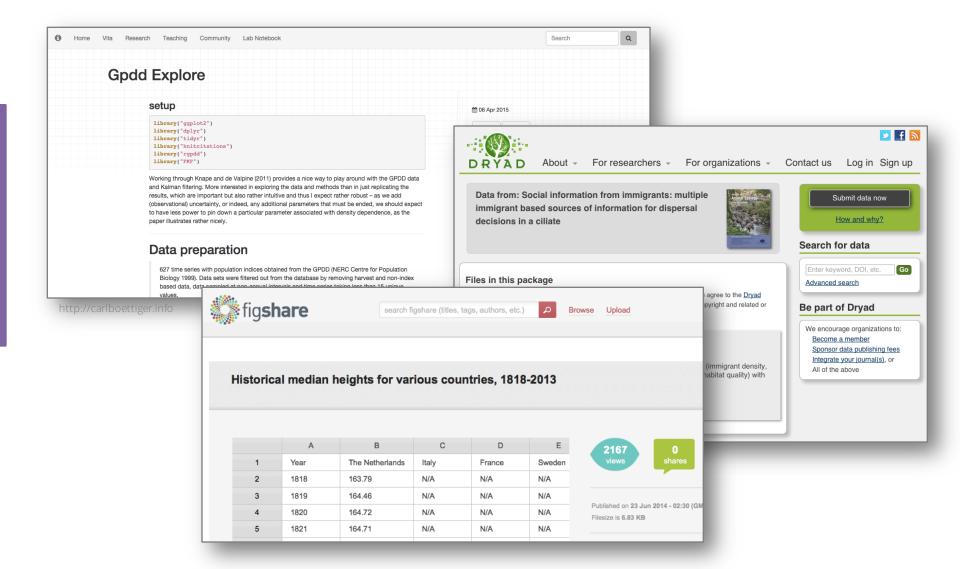
zotero





http://www.slideshare.net/WileyScienceNewsroom/wileys-2013-open-access-author-survey

More transparency



More engagement



Ritu Gairola Khanduri At another level, my book is about the significance of ephemeral forms and how they incite politics.

Like · Reply · 1 · March 19 at 8:09am



Sezoni Whitfield Ritu Gairola Khanduri Why do you think students of Indian political culture will find your book of interest?

Like · 1 · March 19 at 8:16am · Edited



Ritu Gairola Khanduri Students will find a longer history of the significance of an every day visual form--the newspaper cartoon. Nowadays when we are awash with social media and all sorts of digital platforms, it is also a gentle reminder that the older media forms, newspapers cartoons, remain significant in our political communication.

PubPeer Blog Recent Featured Journals About FAQ MyPubPeer Topics Login

Permalink

Jonathan D G Jones: (June 29th, 2014 9:36am UTC)

Dear PubPeer readers

Many thanks to some of you for pointing mistakes in Caillaud et al (2013), and to those of you who made constructive criticisms.

I am pleased to be able to tell you that the corrections to Caillaud et al (2013) have now been published online.

10.1371/journal.pbio.1001909



Research evaluation is changing... for the better

Traditional metrics for evaluation

- Journal impact factors
- Rejection rates
- Journal prestige
- Book publisher prestige
- Raw citation counts

Traditional metrics for evaluation

Datasets

- Journal impact factors
- Rejection rates
- Journal prestige
- Book publisher prestige
- Raw citation counts

White Papers

Software code

Position Statements

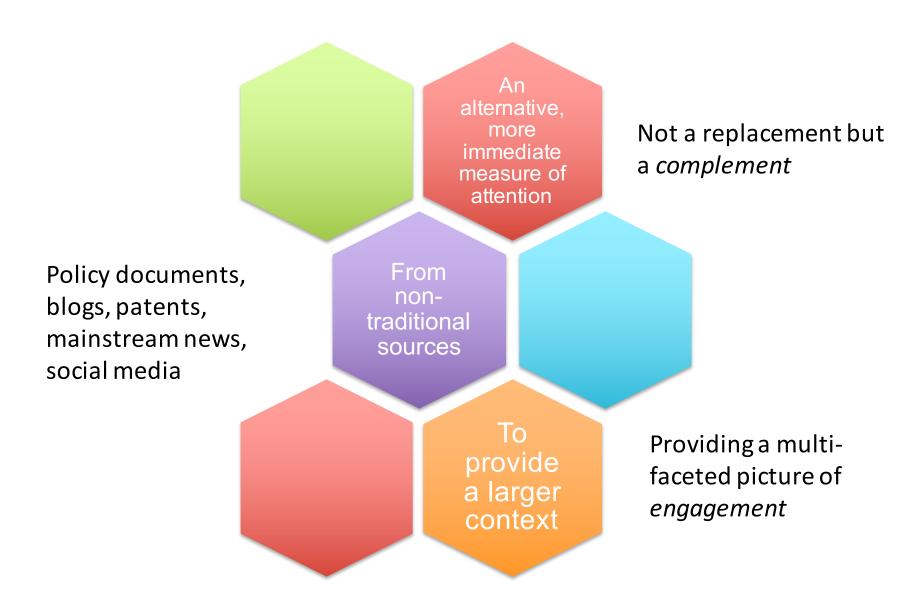
Conferences/P resentations

Blogs



How?

What are altmetrics?



What can the data tell you?



What type of attention is this research receiving?



Where has this article received the most traction?



Which countries are engaging most with the content?

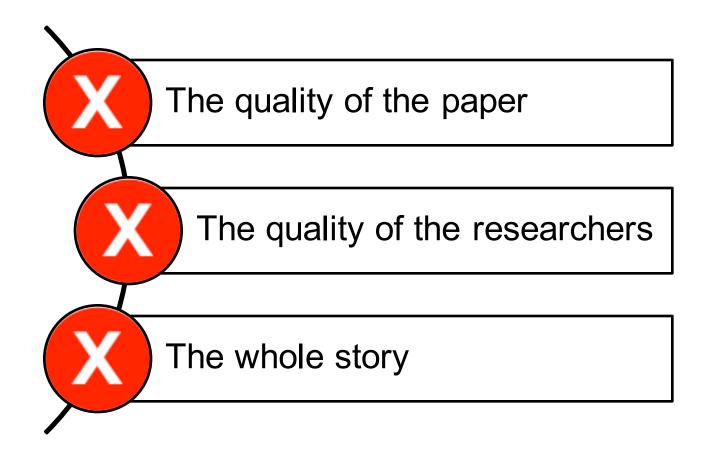


Has this article influenced policy, spurred new research, or engaged a new audience?



Are reactions to this article positive or negative?

What the data doesn't tell you





The Leiden Manifesto for research metrics

Use these ten principles to guide research evaluation, urge **Diana Hicks**, **Paul Wouters** and colleagues.

Where altmetrics come from

- It's possible to source altmetrics from independent web APIS...
- But in many ways it's easier to use an aggregator



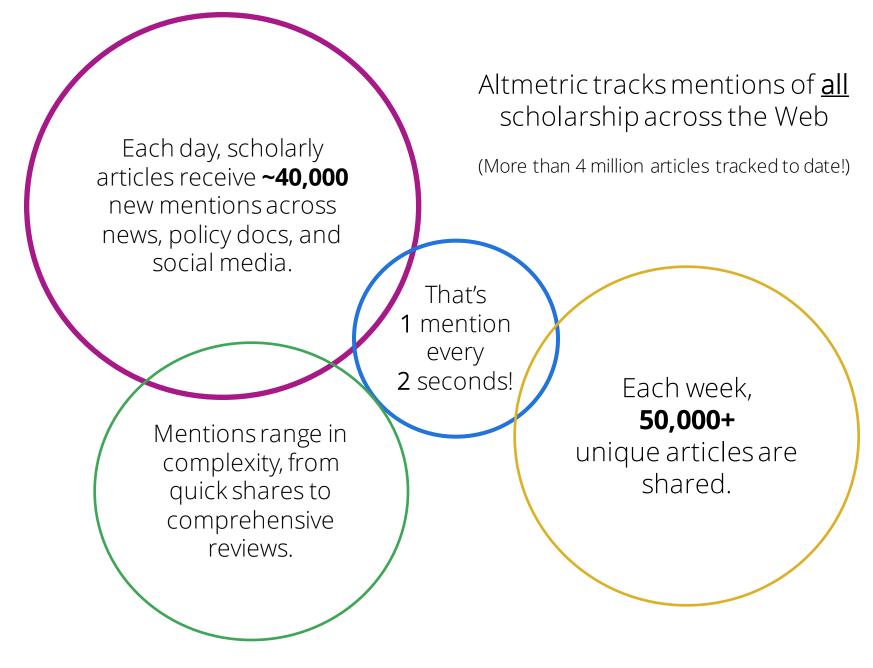
Show & tell: PlumX

Show & tell: Altmetric for Institutions

Who are we?

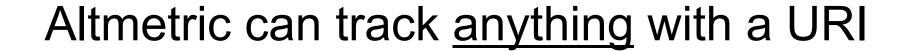
Altmetric is a data science company that tracks attention to research outputs, delivering article level metrics via visually engaging, intuitive interfaces.

In other words, we help give *credit where credit is* due.



Altmetric data sources

- News outlets
- Policy documents
- Peer reviews
- Reference managers
- Research and popular blogs
- Social media
- Forums and Q&A sites



40+ publishers and 5,000+ journals including...

nature publishing group



















THE NATIONAL ACADEMIES PRESS







First **Cambridge University** and now **funders & institutions** including...































Other metrics providers, including...

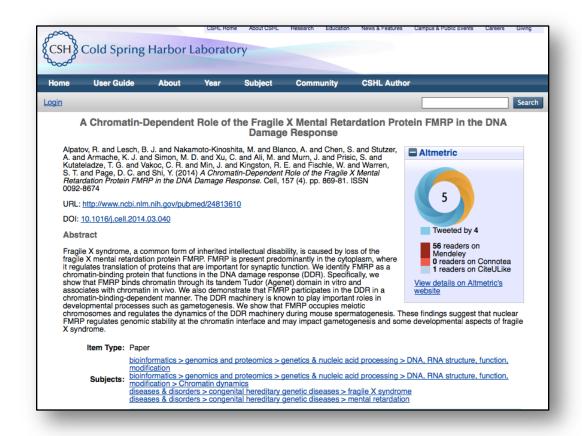






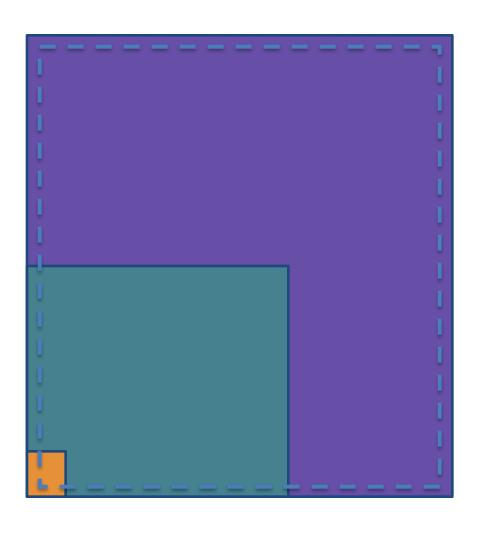


Institutional repositories and library discovery systems





Altmetric products



Altmetric Explorer (free API)

Altmetric for Institutions (API)

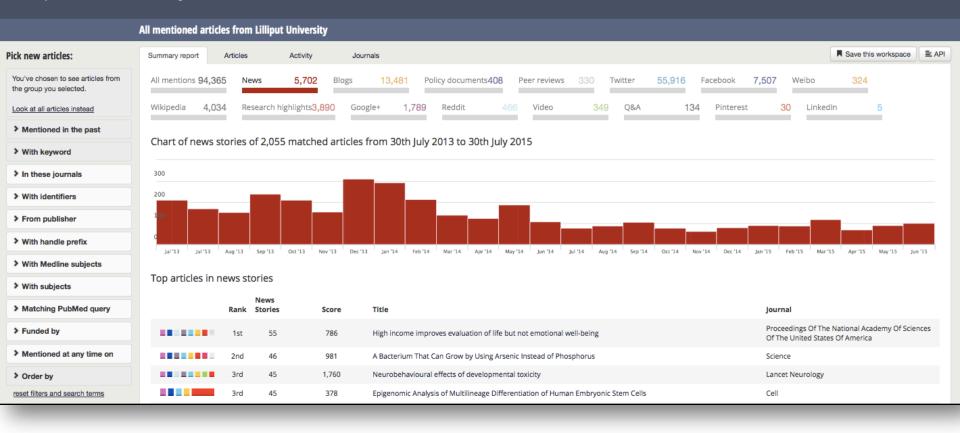
Altmetric bookmarklet

Altmetric for Institutions: Summary

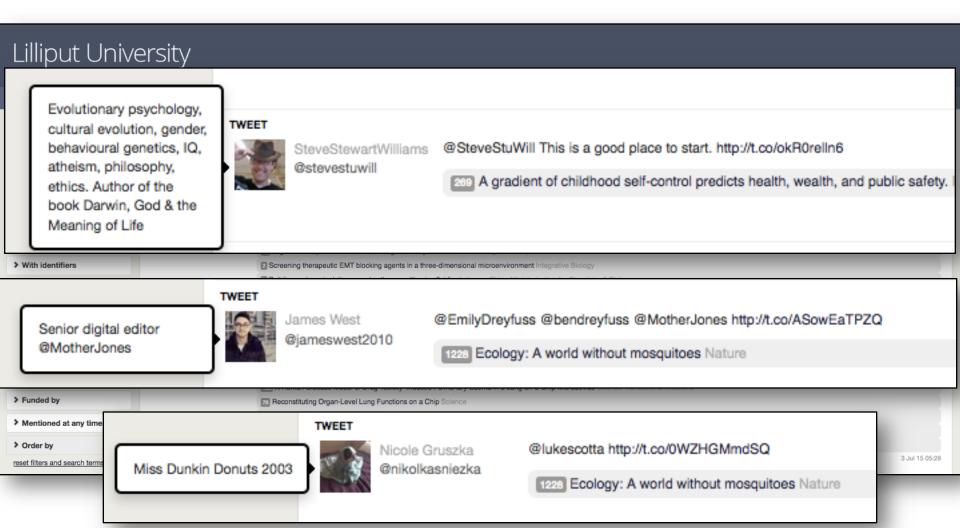


Altmetric for Institutions: Sources

Lilliput University



Altmetric for Institutions: Data



AFI: Benchmarking

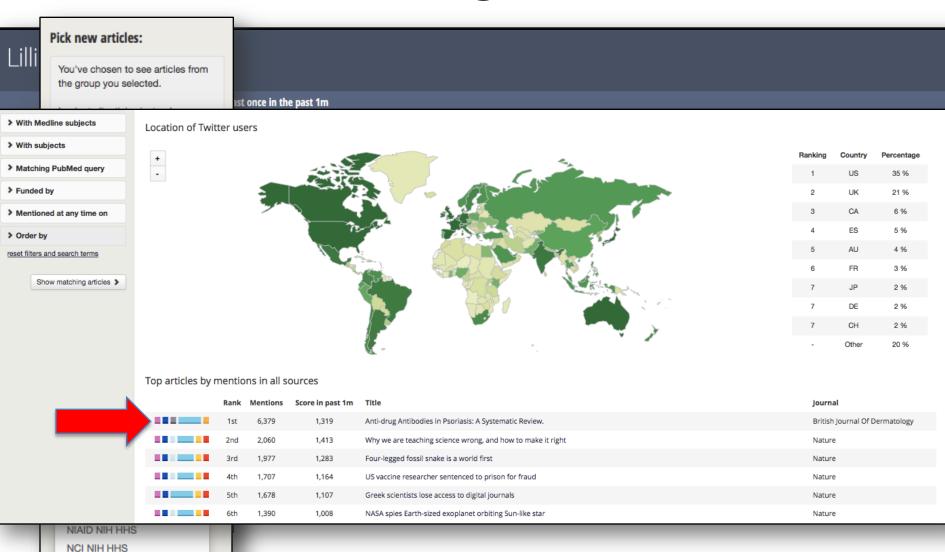
reset filters and search terms

Lilliput University All mentioned articles from your institution Pick new articles: ■ Save this workspace Summary report Journals You've chosen to see articles from All mentions 1,275 Policy documents 9 Facebook Google+ the group you selected. Reddit Look at all articles instead > Mentioned in the past Chart of mentions of 44 matched articles from 30th July 2013 to 30th July 2015 > With keyword 75 > In these journals 50 > With identifiers > From publisher > With handle prefix > With Medline subjects Location of Twitter users > With subjects Ranking Country Percentage > Matching PubMed query 42 % > Funded by US 18 % > Mentioned at any time on 5 % > Order by ES 4 %

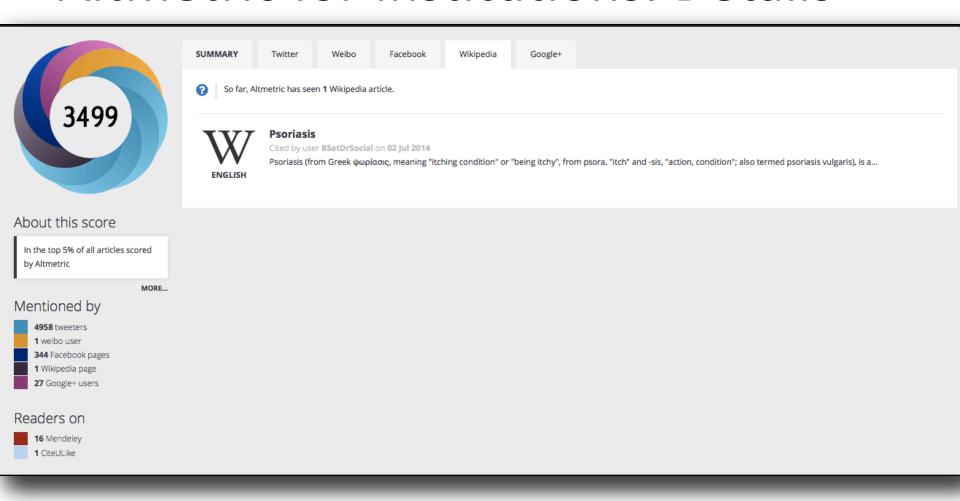
4 %

AFI: Benchmarking

PHS HHS

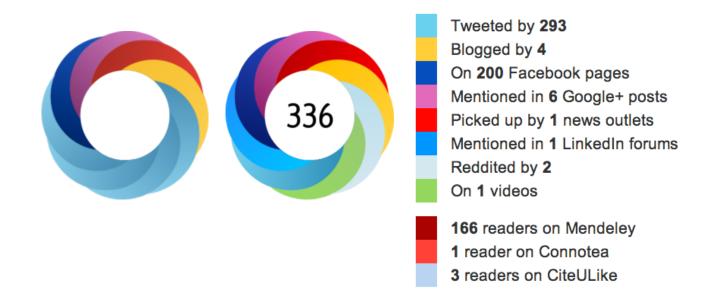


Altmetric for Institutions: Details



The score: a means of filtering

VolumeSourcesAuthorsThe score for an article rises as more people mention it.Each source category contributes a different base amount to the final score.Assess the author of each mention in terms of their reach, promiscuity and bias.



Break

Hands-on exercises

Exercise 1: Getting comfortable with Altmetric



You are a researcher, Michael Kane (Director of Social Policy)



- You are new to the idea of altmetrics and you'd like to know what attention your work is receiving online.
- If you find anything especially "impactful," you plan to highlight that in your annual review and on your VIVO profile.



- Navigate to Michael Kane's list of research articles
- In your group, determine amongst yourselves which three articles are "more impactful." What criteria did you use? How did you come to your decision?
- Are there any articles that showcase new or unexpected types of impact?

Exercise 2: Getting comfortable with PlumX



You are Stephen Scherer



- You are applying for a new grant for Autism Speaks.
- What would you use to showcase the impact of the work that you have done.



- Go to http://plu.mx/autismspeaks
- Find your profile
- What evidence you use?

Exercise 3: Altmetric for Institutions



You are a liaison librarian to a translational research group.



- The research group's PI has asked you to compare her group's publications' impacts to those of her colleagues (and competitors) at other institutions.
- She wants to know:
 - What could she highlight as evidence of "broader impacts" and "engagement"?
 - How does her research compare to the highest-attention HIV research overall?
 - How could she improve her reach & engagement?



- Navigate to the Groups to find lists of your PI and her colleague's articles, then explore the data
- Next, search "HIV" and related terms in the Explorer view to find comparable publications

Exercise 4: PlumX and the Humanities



• You are a faculty member (Susan Rowland) who has books as your main research output.



- You are trying to get promoted, and want to showcase your research, but your seminal work is represented through books, not journal articles.
- How can you highlight the work that you have performed?



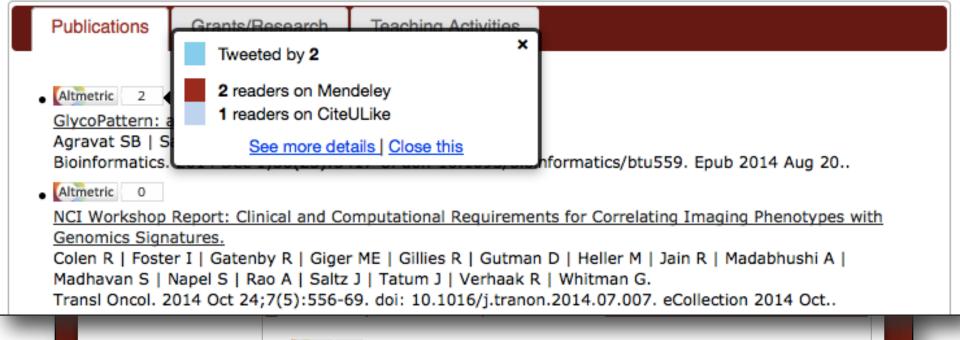
- Go to Pacifica Graduate Institute's PlumX site: http://plu.mx/pacifica
- Find Susan Rowland's profile
- What of her work would you highlight?
- What evidence would you use?
- Was there anything surprising?

VIVO case studies

Altmetric:

Stony Brook University Medical School





• Altmetric 2

GlycoPattern: a web platform for glycan array mining.

Agravat SB | Saltz JH | Cummings RD | Smith DF.

Bioinformatics. 2014 Dec 1;30(23):3417-8. doi: 10.1093/bioinformatics/btu559. Epub 2014 Aug 20..

• Altmetric 0

NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with

Altmetric: Stony Brook University Medical School

- Uses the Altmetric API
- Synced with AFI
 - Mirrored group hierarchy
 - Filters for only relevant content (department, people, etc)
- Can limit by type of mention
- Can create "Top 10" lists on homepages

Wrap-up