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# Research ID and Impact: An Introduction

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# Today's session

1. Overview of scholarly identity platforms - ORCID, Google Scholar, Scopus, Web of Science, ResearchGate etc.
2. Introduction to impact metrics - focus on JIF and h-index

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# Digital scholarly identity

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# What's the point of having an online identity?

- Demonstrating the importance of your work to the wider community
- May help meet academic/career goals
  - Potential employer or supervisor
  - Future collaborator
  - Finding research participants
  - End user of your research
  - Help spread evidence-based information to citizens/popular media

# The perspective of an evaluator...



**Penny Pexman**

@PennyPexman

Following



Early career researcher? Make sure you have a Google Scholar profile. Those are frequently referenced in the Early Career Award nominations I'm reading this morning.

7:53 AM - 8 Apr 2018

87 Retweets 225 Likes



10



87



225



# Establishing yourself online

- There are many platforms to choose from
  - ORCID
  - ResearchGate
  - Academia.edu
  - Scopus author profile
  - Web of Science researcher profile
  - Google Scholar profile
  - LinkedIn (sections for scholarship, research, awards, etc.)
- Considerations for choosing
  - what do you have time/energy for?
  - what platforms are used in your discipline/on your campus?
  - what aligns with your goals and values?

# Pros/cons of academic social media sites

- They are well-used
- They can be used to host full text content

But...

- They don't do copyright checking for authors
- They exist to make a profit
- They don't fulfill OA mandates
- They aren't community-controlled

**ACADEMIA**



# Where to start for an academic path?

## ORCID

- It's like a social insurance number for your research profile
- Distinguishes you from other authors with a similar name
- Allows you to gather **all** your academic outputs in one place
  - Education
  - Work experience
  - Non-traditional outputs like datasets, code, posters, etc.
- Totally open URL that you can include on email signatures, posters, cards, and other online profile pages
- Helpful integrations with other databases and services

Takes only a moment to claim, at <https://orcid.org/register>



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# What is research impact?

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# What does impact mean in an academic sense?

- Many definitions of impact – today, we're talking about
  - Quantifiable impacts
  - Impacts of **written** scholarly outputs
- Traditionally, research community has focused on counting citations

# How do we quantify impact?

- Citations power metrics at a variety of levels
  - Journal level (impact factor)
  - Author level (h-index)
  - Article level
- Now a growing interest in a wider variety of impacts
  - These are quantified in “altmetrics”



# Journal impact factor

- You can find them in Journal Citation Reports database
- Not all journals have one (although many more will get one this year!)
- Measures the frequency with which the “average article” in a journal has been cited in the last two years
- May reflect the importance of a journal in its field
  - Can drive publication decisions
- Some disciplines pay more attention to it than others

# The NEW ENGLAND JOURNAL of MEDICINE

VOL. 366 NO. 2

ESTABLISHED IN 1812

JANUARY 12, 2012

NEJM.ORG



2012  
NEJM

## 108 THIS WEEK AT NEJM.ORG

### PERSPECTIVE

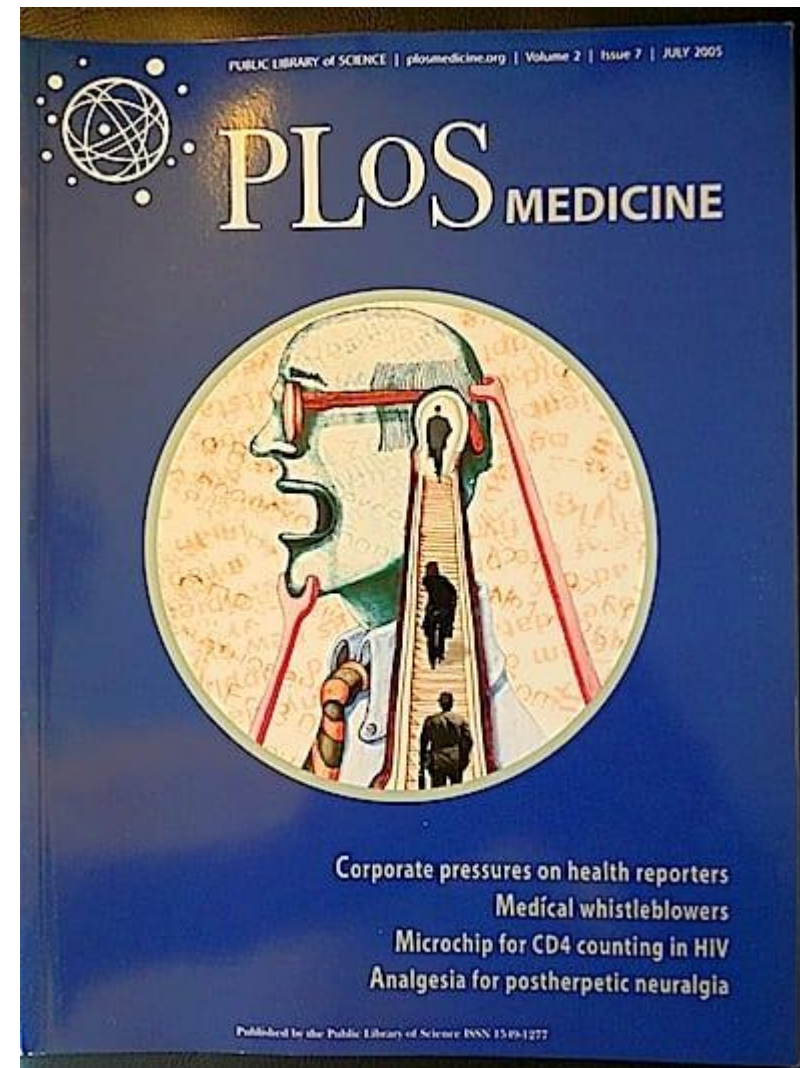
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2021 Impact factor 176.082

2021 Impact factor 11.613

# Many, many criticisms of the impact factor

- Citation distributions within journals are highly skewed
  - “blockbuster” papers
- Journal impact factor is very field specific
  - Different disciplines have varied publication trends and citation patterns
- Impact factor can be “gamed”
  - E.g. editors ask authors to cite recently published works from the same journal

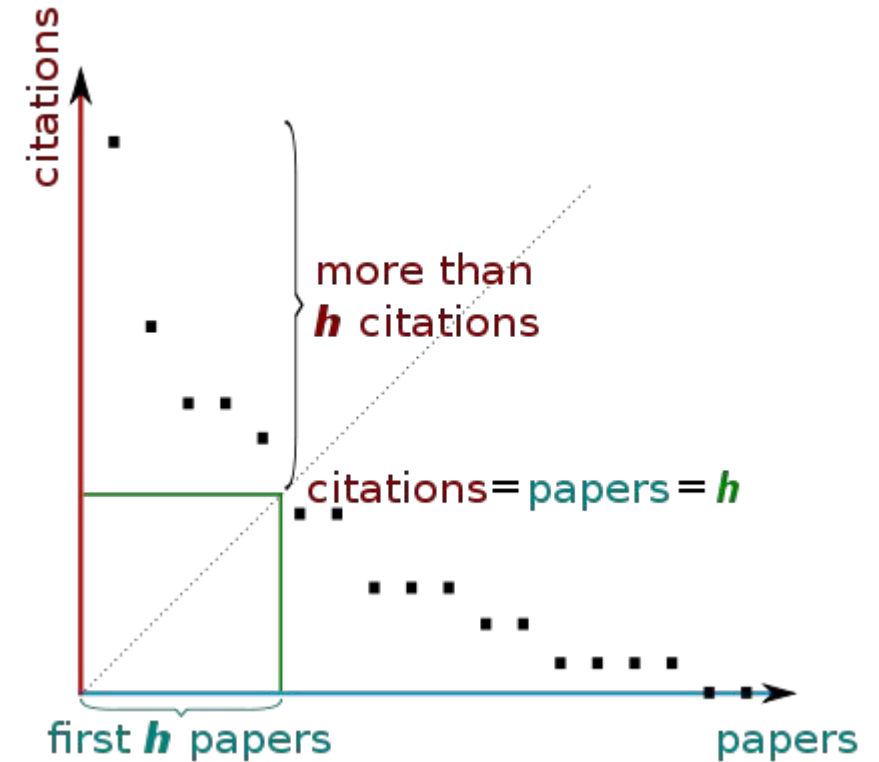
# Sample exercise: find the impact factor of a journal in your discipline!

1. Use the library's web site to find the Journal Citation Reports database
2. Search for a particular journal – or browse by category
3. Report back
  - Did you find your journal?

# Author impact: h-index

- The most widely used research metric
- Measures both productivity (# of papers) and impact (# of citations)

Hirsch, J. E. (2005). An index to quantify an individual's scientific research output. *Proceedings of the National Academy of Sciences of the United States of America*, 102(46), 16569-16572.





# Author impact: h-index

- It's based on a list of publications ranked in descending order by number of times cited
  - So the value of “h” (your h-index) is equal to the number of published papers (h) sorted in descending order with at least (h) citations

## Example:

- Paper 1 (400 citations)
  - Paper 2 (150 citations)
  - Paper 3 (6 citations) = h-index
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- Paper 4 (3 citations)

# Criticisms of the h-index

- Strongly correlated with an individual's overall number of publications
- Its value never decreases
- Doesn't measure quality
- Open to manipulation
  - self-citation
  - collaboration

# Sample exercise: find the h-index of someone in your discipline!

1. Use your library's discovery tool and choose one more more of the following:
  - Scopus
  - Web of Science
  - Google Scholar (no subscription required)
2. Search for an academic mentor, superstar in your discipline...
3. Report back
  - Did you find your person?
  - Bonus points – if you searched in more than one tool, is the number different?

# Research assessment is changing...

- TriAgencies have signed onto Declaration On Research Assessment (DORA), which recommends:
  - Not using journal-based impact metrics, e.g. JIF, to evaluate individual articles or researchers
  - Being explicit that the *content* of a paper is more important than the *container* it is published in
  - Valuing the impact of all research outputs (datasets, software, influence on policy/practice)<https://sfdora.org/read/>
- UofC is a signatory to DORA - [more info](#)

# What are altmetrics?



Complementary to traditional, citation based metrics

- Citations on Wikipedia
- Citations in public policy documents
- Links on blogs
- Mainstream media coverage
- Saves in reference managers (e.g. Mendeley)
- Mentions on social media (e.g. Twitter)

# Provided by a number of different services



Tweeted by 597  
Blogged by 22  
On 20 Facebook pages  
Mentioned in 16 Google+ posts  
Picked up by 8 news outlets  
228 readers on Mendeley  
4 readers on CiteULike  
[Click for more details](#)



PubMedCentral - HTML Views: 478  
PubMedCentral - PDF Views: 267  
Pitt-EPrint-DScholarship - Downloads: 31  
PLoS - PDF Views: 226  
PLoS - HTML Views: 1291  
Bitly - Clicks: 7  
Mendeley - Readers: 15  
Scopus - Cited by: 15  
PubMed - Cited by: 11  
CrossRef - Cited by: 7

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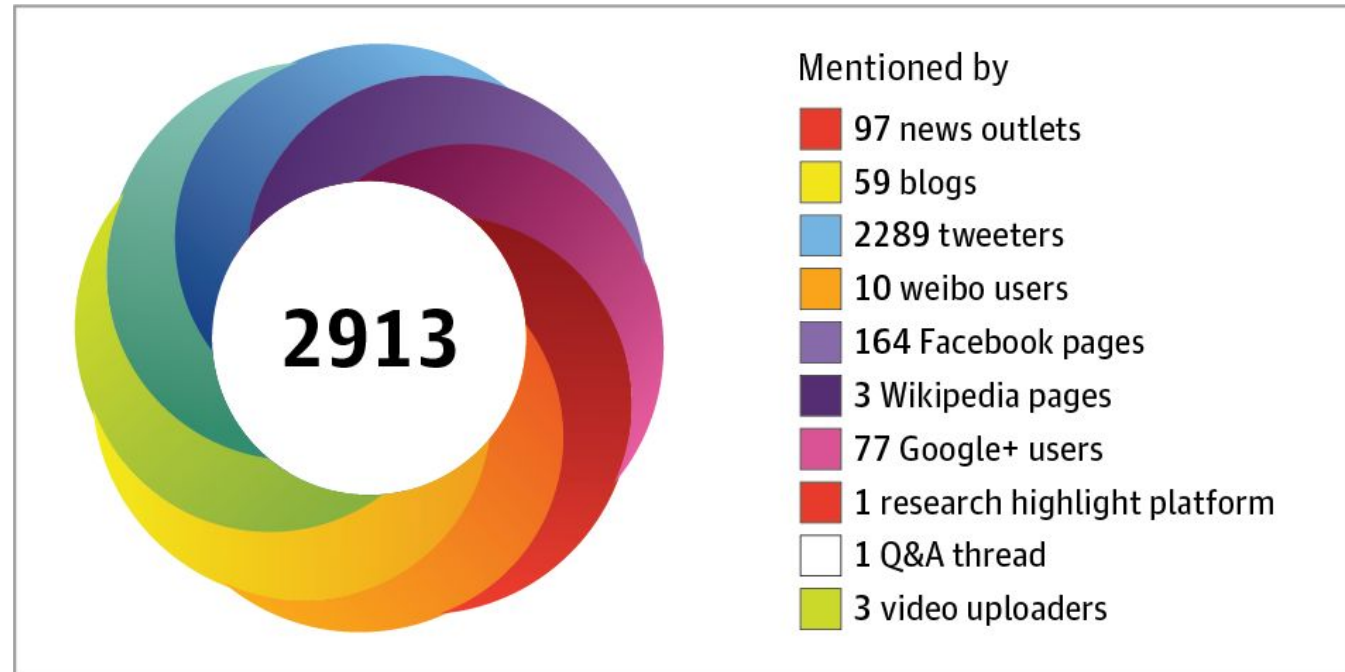
Free for individuals, grant funded

Not free, owned by Digital Science – find on various publisher sites (ACS, T&F)

Not free, owned by Elsevier – find in Scopus

# What are the benefits?

- Timely
- Diverse/non-traditional
- Not just metrics
- Not just for journal articles
  - Software
  - Data
  - Posters
  - Books



# Building your profile can start now!

- ORCID
  - Registration is especially important if you have a common surname
  - You can add all kinds of info to it - scholarships, poster presentations, etc.
- If you already have publications
  - Create/fix your author profiles in Scopus/Web of Science/Google Scholar
  - See <https://libguides.ucalgary.ca/guides/researchID/author> for details
  - Do a yearly checkin/cleanup
- Use Zotero or similar to create a library of your own publications, including posters and presentations (useful to export to a CV).



# More information

Guide: <https://libguides.ucalgary.ca/guides/researchID>

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