

Developing Your Scholarly Identity

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Developing Your Digital Identity as Part of an Educational Strategy

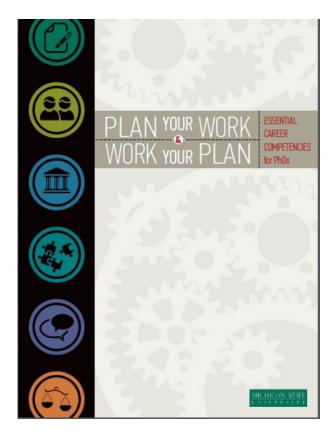


PREP: Michigan State Graduate School Career and Professional Development Model

- planning throughout the graduate program to identify and successfully achieve career goals
- developing resilience and tenacity to thrive through personal and professional stages
- practicing active engagement in making important life decisions and in acquiring the skills necessary to attain career goals
- attaining high standards of professionalism in research and teaching

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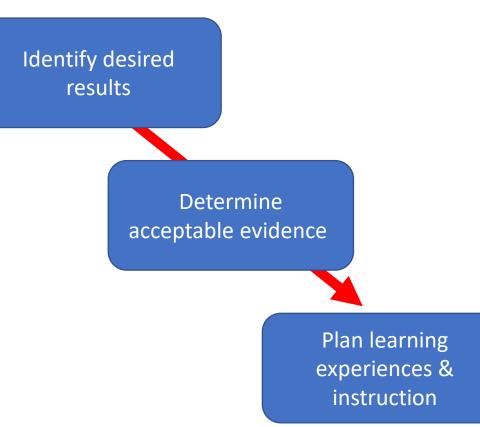
https://grad.msu.edu/sites/default/files/content/prep/planyourwork.pdf

Developing a Personal Professional Development Plan

Where do you want to take your career?

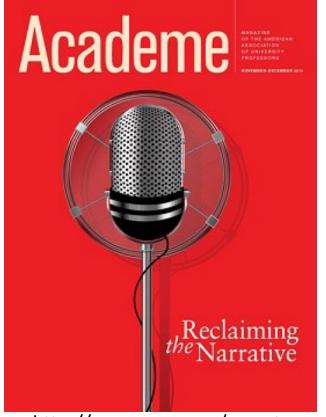
What does your resume need to look like?

What do you need to do to generate that resume?



Stages in the Backward Design Process (Wiggins, G. & McTighe, J. 1998)





http://www.aaup.org/reportsand-publications/academe

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(Re)Claiming Your Narrative

Research Identity

Representing Your Expertise

Tell a Story of Your Work

"Publish" Your Whole Portfolio

Enhance the Discoverability of Your Work

How to Maintain Your Digital Identity as an Academic



See more at:

https://chroniclevitae.com/news/854-how-tomaintain-your-digital-identity-as-an-academic

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1. Develop Your Online Identity



101 INNOVATIONS IN SCHOLARLY COMMUNICATION



Jeroen Bosman 🍯@jeroenbosman Utrecht University Library

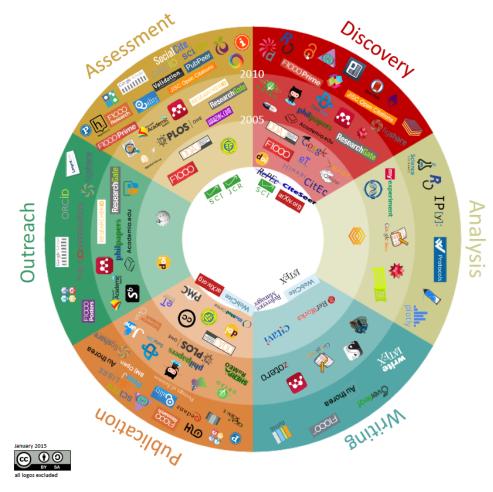
THE CHANGING RESEARCH WORKFLOW



Bianca Kramer 🍠@MsPhelps Utrecht University Library

Science is in transition. This poster gives an impression of the exploratory phase of a project aiming to chart innovation in scholarly information and communication flows from evolutionary and network perspectives.

101 Innovative tools and sites in 6 research workflow phases (< 2000 - 2015)



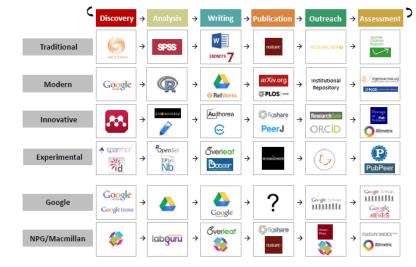
We intend to address the questions of what drives innovation and how these innovations change research workflows and may contribute to more open, efficient and good science.

Most important developments in 6 research workflow phases

	Discovery		Writing	Publication	Outreach		
Trends	social discovery tools	datadriven & crowdsourced science	collaborative online writing	Open Access & data publication	scholarly social media	article level (alt)metrics	
Expectations	growing importance of data discovery	more online analysis tools	more integration with publication & assessment tools	more use of "publish first, judge later"	use of altmetrics for monitoring outreach	more open and post- publication peer review	
Uncertainties	support for full-text search and text mining	willingness to share in analysis phase	acceptance of collaborative online writing	effect of journal/publisher status	requirements of funders & institutions	who pays for costly qualitative assessment?	
Opportunities	discovery based on aggregated OA full text	open labnotes	semantic tagging while writing/citing	reader-side paper formatting	using repositories for institutional visibility	using author-, publication- and affiliation-IDs	
Challenges	real semantic search (concepts & relations)	reproducibility	safety/privacy of online writing	globalization of publishing/access standards	making outreach a two-way discussion	quality of measuring tools	
Most important long-	multidisciplinary +	collaboration + data-	online writing platforms	Open Access	more & better connected	importance of societal	

Most important long- term development	multidisciplinary + citation-enhanced databases	collaboration + data- driven	online writing platforms	Open Access	more & better connected researcher profiles	importance of societal relevance + non- publication contributions
Potentially most disruptive development	semantic/concept search + contextual/social recommendations	open science	collaborative writing + integration with publishing		public access to research findings, also for agenda setting	

Typical workflow examples



Kramer, Bianca; Bosman, Jeroen (2015): 101 Innovations in Scholarly Communication - the Changing Research Workflow. figshare. Poster. https://doi.org/10.6084/m9.figshare.1286826.v1

Most important developments in 6 research workflow phases

	Discovery	Analysis	Writing	Publication	Outreach	Assessment	
Trends	social discovery tools	datadriven & crowdsourced science	collaborative online writing	Open Access & data publication	scholarly social media	article level (alt)metrics	
Expectations	growing importance of data discovery	more online analysis tools	more integration with publication & assessment tools	more use of "publish first, judge later"	use of altmetrics for monitoring outreach	more open and post- publication peer review	
Uncertainties	support for full-text search and text mining	willingness to share in analysis phase	acceptance of collaborative online writing	effect of journal/publisher status	requirements of funders & institutions	who pays for costly qualitative assessment?	
Opportunities	discovery based on aggregated OA full text	open labnotes	semantic tagging while writing/citing	reader-side paper formatting	using repositories for institutional visibility	using author-, publication- and affiliation-IDs	
Challenges	real semantic search (concepts & relations)	reproducibility	safety/privacy of online writing	globalization of publishing/access standards	making outreach a two-way discussion	quality of measuring tools	

Most important long- term development	multidisciplinary + citation-enhanced databases	collaboration + data- driven	online writing platforms	Open Access	more & better connected researcher profiles	importance of societal relevance + non- publication contributions
Potentially most disruptive development	semantic/concept search + contextual/social recommendations	open science	collaborative writing + integration with publishing	circumventing traditional	public access to research findings, also for agenda setting	moving away from simple quantitative indicators



Kramer, Bianca; Bosman, Jeroen (2015): 101 Innovations in Scholarly Communication - the Changing Research Workflow. figshare. Poster. https://doi.org/10.6084/m9.figshare.1286826.v1

Emerging Issue: Identity & Reputation Scholarly Identity on the Internet

Name ambiguity

Discoverability within and across databases

Author, grantee, and faculty record management

Output tracking

Research reporting and impact assessment

ORCID Connecting Research and Researchers

The research community

has lacked the ability to

link researchers and

scholars with their

professional activities.



Emerging Issue: Identity & Reputation ORCIDs

DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. Find out more.



REGISTER Get your unique ORCID identifier Register now! Registration takes 30 seconds.



Enhance your ORCID record with your professional information and link to your other identifiers (such as Scopus or ResearcherID or LinkedIn).



USE YOUR ORCID ID Include your ORCID identifier on your Webpage, when you submit publications, apply for grants, and in any research workflow to ensure you get credit for your work.



http://orcid.org/



2. Representing Your Expertise

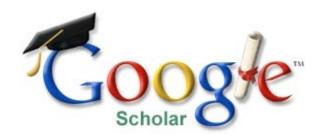


Representing Your Expertise



ResearchGate

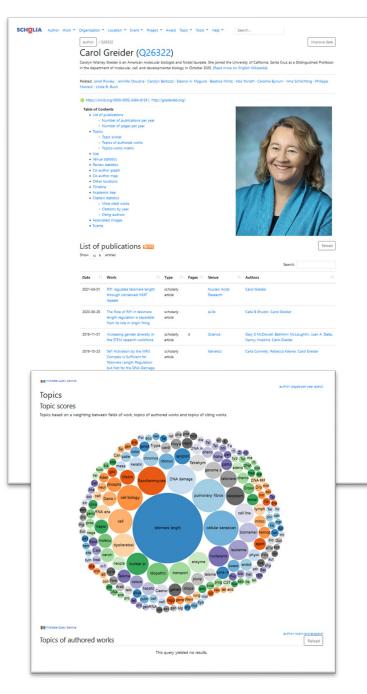




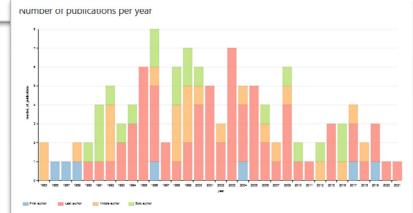


Build Scholarly Profiles with

Scholia is a project to present bibliographic information and scholarly profiles of authors and institutions using Wikidata, the community-curated database supporting Wikipedia and all other Wikimedia projects.









3. Tell a Story of Your Work



CASE STUDY

(wileyonlinelibrary.com) doi: 10.1002/leap.1251

Maximizing dissemination and engaging readers: The other 50% of an author's day: A case study

Toby Green 💿

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ORCID: 0000-0002-9601-9130

E-mail: toby.green@oecd.org

Key points • Dissemination should be the other 50% of what authors do: being read and having impact will not happen by itself.

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Received: 24 May 2019 | Accented: 17 June 201

 Authors can influence discovery and readership through owned media – i.e. their own communication activities.

 Earned media – i.e. when influencers write about your work – is key to reaching larger and more diverse audiences.

 There is plenty of data for tracking engagement and use of articles, but it is scattered across multiple tools and providers and can be misleading or even incorrect

 Listservs can have higher engagement than modern, 'cool', social networking tools.

INTRODUCTION

It takes much time and effort to write a paper - but how much time and effort do authors put in to finding readers? In this case study. Lexplain why I decided to devote an equivalent amount of time and effort into finding and then engaging with my audience. Drawing on available data for three papers I published in 2017. 2018. and 2019. I describe how I promoted them, what happened, and what I learned. You will learn about the Conversion Eunnel and how tools like Kudos and Altmetric can help drive and track your audience through its four layers: awareness, interest, desire, and action (downloading and reading). You will learn the difference between owned and earned media and why finding influencers and riding waves can be so important. I also identify areas inside the funnel where an author is dependent on others, lacks control, or where data is missing, each of which makes influencing the click-through rate more difficult. The case study ends with a set of 10 lessons learned.

WHY ACTION IS NEEDED

The urban legend that many academic papers go unread beyond their authors' 'collegiate bubbles' (Meho, 2007) was

Learned Publishing 2019

seemingly validated in 2014 when the World Bank reported that a third of its own papers were never downloaded (Doeneland & Trevio, 2014). However, as with most urban legends, the data tells another story. The World Bank's authors drew on data from a defunct repository and so missed data from a new one which showed that all reports were downloaded (C. Rossel, personal communication, May 2014). Ironically, the fuss that greeted the World Bank paper certainly drove its readership beyond its authors' bubble: it has been downloaded more than 8,000 times and, as of 19 April 2019, has an Altmetric score that tops 200. However, an essential question remains: how can authors boost their audience beyond their immediate peer group? Whilst a payvall might be a commonly cited barrier to being

wrins a paywain might be a commonly check barner to being read (e.g. O'brien, 2016), others exists, such as arcane and foreign language, discoverability, and even the comparative difficulty in using journals compared with other media (Waller & Knight, 2012). Plainky, you can only download what you know exists, so discoverability must be a primary barrier, especially because paywalls are now relatively easy to skirt with tools like Unpaywall (https://unpaywall.org/) able to find free versions of many paywalled articles, and as a last resort, there is what like to refer to as the "Scottish Service" (*Note:* According to theatrical superstition, speaking the name of Shakespeare's play Macbeth Invites

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Engaging Readers

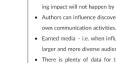
•Dissemination should be the other 50% of what authors do: being read and having impact will not happen by itself.

•Authors can influence discovery and readership through owned media – i.e. their own communication activities.

•Earned media – i.e. when influencers write about your work – is key to reaching larger and more diverse audiences.

•There is plenty of data for tracking engagement and use of articles, but it is scattered across multiple tools and providers and can be misleading or even incorrect.

•Listservs can have higher engagement than modern, 'cool', social networking tools.



www.learned-publishing.org

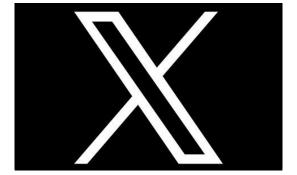
Tell a Story of Your Work

Linked in

Websites









Metrics to show Research Impact

Bibliometrics – citation-based metrics

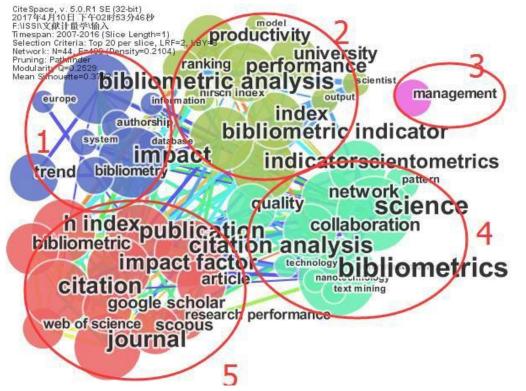
Journal Impact - measure of the influence that a particular journal has in its field

 Web of Science - Journal Impact Factor (JIF)

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 Scopus - Scimago Journal Rank* (SJR), Source Normalized Impact per Paper* (SNIP), CiteScore



https://www.researchgate.net/publication/318940072_Are_Sci entometrics_Informetrics_and_Bibliometrics_different



PRUARY 16355

Metrics to show Research Impact

Bibliometrics – citation-based metrics

Individual Research Impact

- Citation analysis Google Scholar, Scopus, & Web of Science
- H-index the maximum value of h such that the given author/journal has published at least h papers that have each been cited at least h times.



The Run and States and

Metrics to Show Research Impact

Altmetrics – complements bibliometrics – tracks the volume and nature of online attention to research, indicating how others are engaging with your research

- Policy
- Blogs

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• News sites

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- Social Media
- Wikipedia
- Syllabi

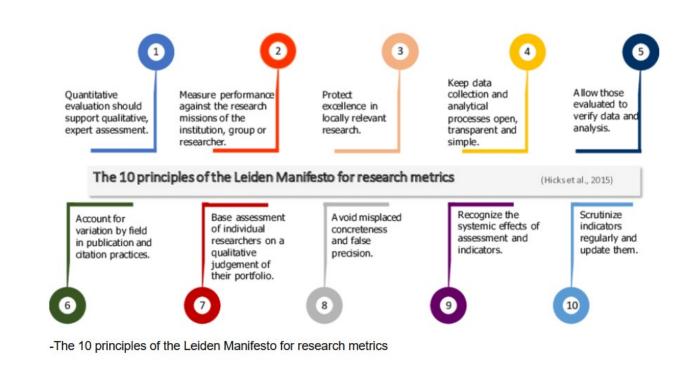
- Citation Databases
- YouTube
- Reference Managers

Google Scholar Profile

=	Google Scholar	Search profiles Q	
•	Profiles		
		Kansas State University Learn more	
		Lovedeep Saini Research Associate - High Energy Physics, Kansas State University Verified email at phys.ksu.edu High Energy Physics	Cited by 172495
		Nikoloz Skhirtladze Research scientist, Kansas State University and CERN Verified email at phys.ksu.edu Experimental particle physics data analysis detector physics	Cited by 153906
		Kevin Gwinner Kansas State University Verified email at ksu.edu Services Marketing and Corpora	Cited by 32827
		Walter Dodds Kansas State University Verified email at ksu.edu	Cited by 28397
		DC Poole University Distinguished Professor, Coffman Distinguished Teaching Chair, Kansas State Verified email at vet ksu.edu Oxygen transport muscle microcirculation exercise KSU-A&P KSU-VetMed	Cited by 27379
		PV Vara Prasad Distinguished Professor and Director, Kansas State University Verified email at ksu.edu Sustainable Intensification Farming Systems Climate Smart Agriculture Crop Ecophysiology Abiotic Stresses	Cited by 26428
		David Schmitt Kansas State University Verified email at ksu.edu Culture and Evolution Evolutionary Psychology Cross-Cultural Psychology Personality Psychology Human Sexuality	Cited by 25742







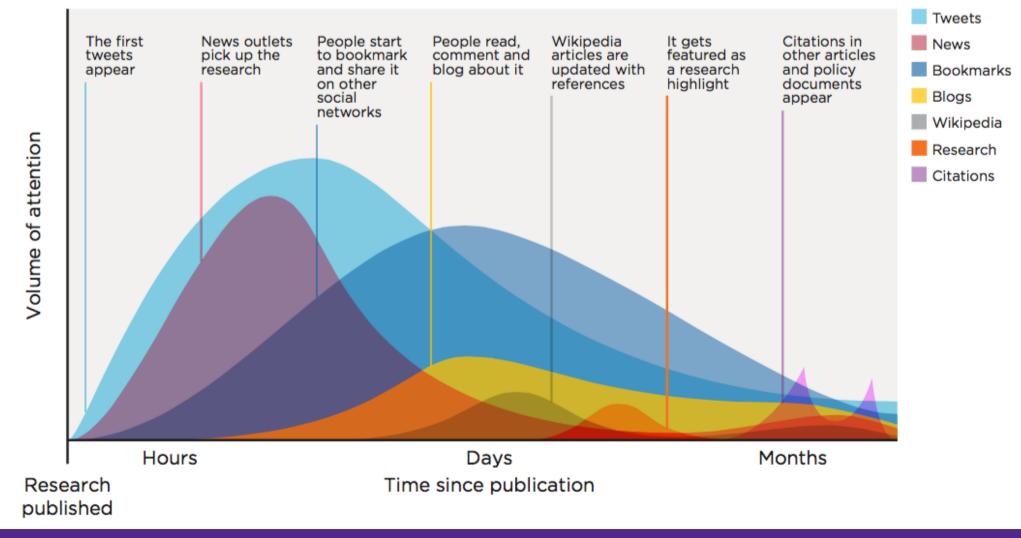
SIISTAINARII ITY Data needed **HISTORY** Music inspired FRVATION Economics **GEOLOGY** Questions raised over to drive UN development and environmental proposed Anthropocene Newton to add more colours catastrophe p.434 to the rainbow p.436 goals p.432 dates n.436 The Leiden Manifesto for research metrics Use these ten principles to guide research evaluation, urge Diana Hicks, Paul Wouters and colleagues.

Hicks, D., Wouters, P., Waltman, L. *et al.* Bibliometrics: The Leiden Manifesto for research metrics. *Nature* **520**, 429–431 (2015). https://doi.org/10.1038/520429a

Duarte, Kedma. (2017). Assessing Researcher Quality for Collaborative Purposes.



A typical timeline of attention



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4. "Publish" All of Your Work













Enhance the Discoverability of Your Work: Make Your Work Accessible



Open Access

A movement in higher education to increase access to scholarly research and communication, not limiting it solely to subscribers or purchasers of works.

•Open Access literature is digital, online, free of charge, and free of most copyright and licensing restrictions

•Works are still covered by copyright law, but Open Access terms apply to allow sharing and reuse

•All major OA initiatives for scientific and scholarly literature insist on the importance of peer review



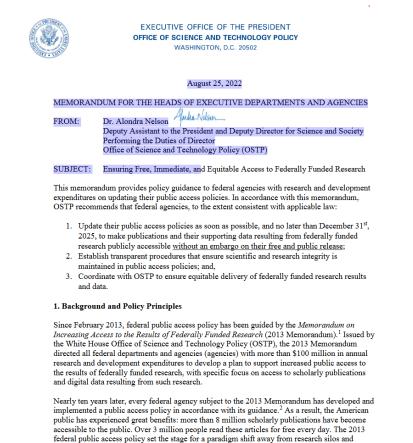
OSTP Memorandum August 25, 2022

This memorandum provides policy guidance to federal agencies with research and development expenditures on updating their public access policies. In accordance with this memorandum, OSTP recommends that federal agencies, to the extent consistent with applicable law:

1. Update their public access policies as soon as possible, and no later than December 31st , 2025, to make publications and their supporting data resulting from federally funded research publicly accessible without an embargo on their free and public release;

2. Establish transparent procedures that ensure scientific and research integrity is maintained in public access policies; and,

3. Coordinate with OSTP to ensure equitable delivery of federally funded research results and data.



1 See the 2013 Memorandum:



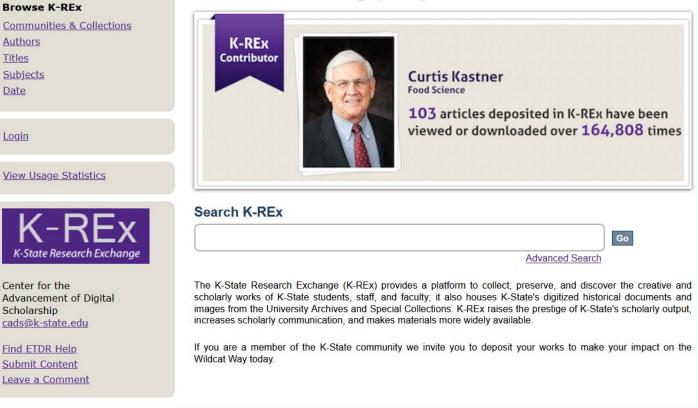
https://obamavhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp_oublic_access_memo_2013.pdf * See the 2021 OSTP Public Access Congressional Report. https://www.whitehouse.gov/wpcontent/uploads/2022/02/2021-Public-Access-Congressional-Report_OSTP_pdf

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K-State Research Exchange

K-State's Open Repository

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Introduction

Methods Results

Description

Discussion

Conclusions

Supplemental Information

Additional Information and Declarations

- Peer Review history
- Articles citing this paper (3)

Questions (2)

% Links (5)

Subject areas

Evolutionary Studies

Paleontology

Zoology

23.954 1.368 Visitors

... View all metrics + mentions on the Web

Ontogeny in the tube-crested dinosaur Parasaurolophus (Hadrosauridae) and heterochrony in hadrosaurids

SUBMIT ARTICLE

Login

Andrew A. Farke¹, Derek J. Chok², Annisa Herrero², Brandon Scolieri², Sarah Werning³

More -

Published October 22, 2013 PubMed 24167777

PREPRINTS

PeerJ Part of the PeerJ PeerJ Picks 2014 Collection



Part of the PeerJ Top Paleontology Papers - October 2014

July 1, 2014: (Minor Correction): "FMNH" was inadvertently omitted from the list of institutional abbreviations. The abbreviation list should include: FMNH, Field Museum of Natural History, Chicago, Illinois, USA.

S Also see the associated PeerJ guest blog post by author Andrew Farke on this paper as well as the "Dinosaur Joe" website built specifically for this new find.

Author and article information





Segmentation data for braincase of Parasaurolophus sp. (Hadrosauridae: Dinosauria)

	4000_braincase_Slicer
bor	ve.vtk
bra	in_endocast.vtk
bra	incase-bone-label.nrrd
bra	incase-connective_tissue-label.nrrd
bra	incase-label.nrrd
bra	incase-mass-label.nrrd
bra	incase-nerve-label.nrrd
bra	incase-pituitary_gland-label.nrrd
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	Linaige
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Cite this:	Farke, Andrew; Paleontology, Raymond M. Alf Museum of (2013): Segmentation
	data for braincase of Parasaurolophus sp. (Hadrosauridae: Dinosauria).
	figshare.
	http://dx.doi.org/10.6084/m9.figshare.664171
	http://dx.doi.org/10.0004/http://gandie.oo4/http://



Î	1120 views 0 shares coming soon
Ξ	Published on 22 Oct 2013 - 10:48 (GMT) Filesize is 39.11 MB
	Categories
	GeologyPaleontology

Open Data Open Sharing of the Paper and the Data

Paleontology

Anatomy

Evolutionary Biology

Authors

load

Andrew Farke Raymond M. Alf Museum of Paleontology

Tags

ontogeny
Iambeosaurinae
Hadrosauridae
Adrosaur
Adrosaur

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http://figshare.com/articles/Segmentatio n data for braincase of Parasauroloph us sp Hadrosauridae Dinosauria /6641 71



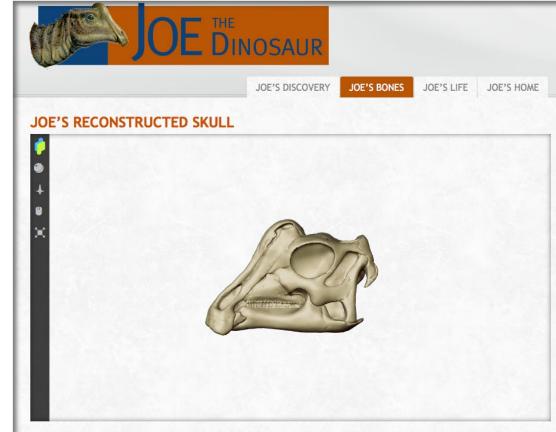
Open Data Open Sharing of the Paper and the Data

http://dinosaurjoe.org/joesbones/digital-joe/joes-skullreconstruction/

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This reconstruction shows how the skull of "Joe" the baby Parasaurolophus might have looked when complete. The keratinous beak has been included here; its attachment to the bone is shown by a subtle line around the upper beak. The model was based upon CT scans of the fossil skull, with missing parts filled in from related dinosaurs.

Reconstruction copyright Ville Sinkkonen, used with permission.

Having trouble viewing the model? This 3D viewer works best on Firefox, Chrome, and Safari (no Internet Explorer, sorry!). Many of the files are viewable as 3D PDFs (via Adobe Acrobat) for download from the journal article at *PeerJ*, including a 3D pdf of the skull. A table with links to all of the raw data hosted at Figshare (including printable STL files) is available at *PeerJ*.

Media



Open Data Open Sharing of the Paper and the Data

http://journals.plos.org/plosone /article?id=10.1371/journal.pon e.0000308

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Sharing Detailed	Research Data Is Asso	ciated with In	creased	b			
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Heather A. Piwowar 🖾, Roger S	. Day, Douglas B. Fridsma						
Published: March 21, 2007 • DC	I: 10.1371/journal.pone.0000308 • Feature	ed in PLOS Collections					
Article Author	ors Metrics	Comments	Related Co	ontent	Download	PDF -	
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Abstract					🔘 CrossMark		
Introduction	Abstract				Included in t	ha	
Results	Background				Following Co		
Discussion	Sharing research data provides benefit to	the general scientific com	munity, but the	benefit is	Open Access C	ollection	
Materials and Methods	less obvious for the investigator who mak				Open Access Collection		
Supporting Information	Principal Findings				Subject Area	. 0	
Author Contributions	We examined the citation history of 85 ca	•			Subject Area	15	
References	to the availability of their data. The 48% o 85% of the aggregate citations. Publicly a				Microarrays	0	
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Preservation

- Journals aren't around forever. What happens to your digital scholarship if they cease publication?
- Is there a print copy available?
- Does the publisher provide a DOI?
- Do you have permission to publish/share preprint or postprints in an institutional repository?
- What is the repository's retention policy?

MILLIONS OF PAPERS AT RISK OF DISAPPEARING FROM THE INTERNET

Analysis of DOIs suggests digital preservation isn't keeping up with burgeoning scholarly knowledge.

By Sarah Wild

ore than one-quarter of scholarly articles are not being properly archived and preserved, a study of more than seven million digital publications suggests. The findings indicate that systems to preserve papers online have failed to keep pace with the growth of research output (M. P. Eve. *I. Libr.* Sch. Commun. **12**, ePI6288; 2024).

"Our entire epistemology of science and research relies on the chain of footnotes," explains author Martin Eve, a researcher in literature, technology and publishing at Birkbeck, University of London. "If you can't verify what someone else has said at some other point, you're just trusting to blind faith for artefacts that you can no longer read yourself."

Eve, who is also involved in research and development at digital-infrastructure organization Crossref, checked whether 7,438,037 works labelled with digital object identifiers (DOIs) are held in archives. DOIs – which consist of a string of numbers, letters and symbols – are unique fingerprints used to identify and link to publications, such as scholarly articles and official reports. Crossref is the largest DOI registration agency, allocating the identifiers to about 20,000 members, including publishers, museums and other institutions.



Two million articles are not properly archived

The sample of DOIs included in the study was

made up of a random selection of up to 1,000 registered to each member organization. Twenty-eight per cent of these works - more than two million articles - did not appear in a major digital archive, despite having an active DOI. Only SS% of the DOIs referenced works that had been stored in at least one archive. The other 14% were excluded from the study because they were published too recently, were not journal articles or did not have an identifiable source.

Preservation challenge

Eve notes that the study has limitations:
namely, that it tracked only articles with DOIs,
and that it did not search every digital repos itory for articles (he did not check whether
items with a DOI were stored in institutional
repositories, for example).

Nevertheless, preservation specialists have welcomed the analysis. "It's been hard to know the real extent of the digital preservation challenge," says William Kilbride, managing director of the Digital Preservation Coalition, headquartered in York, UK, which publishes a handbook of good preservation practice. "Many people have the blind assumption

Many people nave the bilind assumption that if you have a DOI, it's there forever," says Mikael Laakso, who studies scholarly publishing at the Hanken School of Economics in Helsinki. "But that doesn't mean that the link will always work."

Kate Wittenberg, managing director of the digital archiving service Portico in New York City, warns that small publishers are at higher risk of failing to preserve articles than are large ones. 'It costs money to preserve content,' she says, adding that archiving involves infrastructure, technology and expertise that many smaller organizations do not have access to. Eve's study suggests some measures that could improve digital preservation, including stronger requirements at DOI registration agencies and better education and awareness of the issue among publishers and researchers.

"Everybody thinks of the immediate gains they might get from having a paper out some where, but we really should be thinking about the long term sustainability of the research ecosystem," Eve says. "After you've been dead for 100 years, are people going to be able to get access to the things you've worked on?"



Contacts



Connecting your scholarship to the world



Carolyn Jackson Associate professor Scholarly Communication and Open Educational Resources Librarian (785)532-3514 Email: <u>csjaxon@k-state.edu</u>



Slides by Carolyn Jackson and Bruce Herbert