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Altmetrics: STEM Librarians Leading the Way

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Syracuse University

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Altmetrics

STEM Librarians Leading the Way

Anne Rauh
Science & Engineering Librarian
Syracuse University
October 28, 2016

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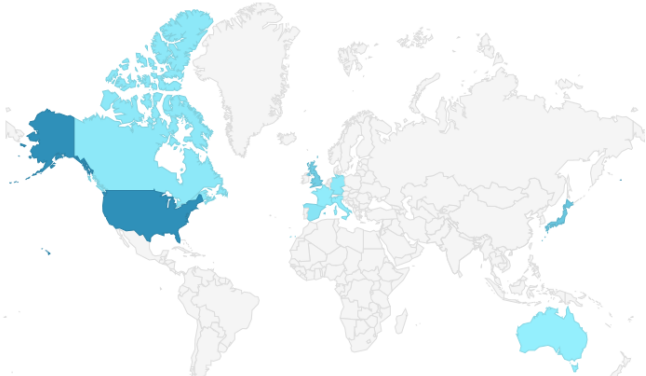
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Abstract On September 14, 2015 at 09:50:45 UTC the two detectors of the Laser Interferometer Gravitational-Wa... [\[show\]](#)

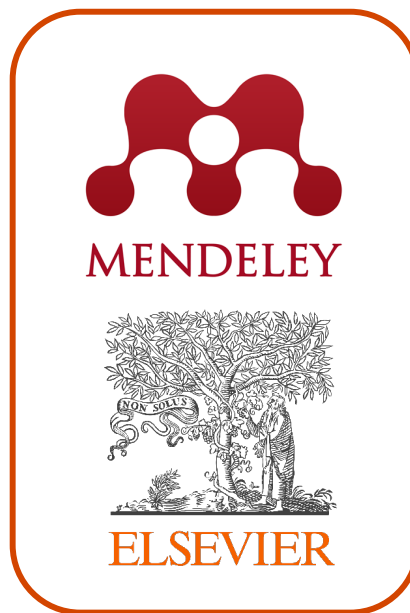
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from to

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by [Isounno, Saana; Cure, Charlotte; Kvadheim, Peter Helgevolv; more...](#)
Ecological Applications, 01/2016, Volume 26, Issue 1
Permalink

Journal Article: [Full Text Online](#)

4. Correction: Fin Whale Sound Reception Mechanisms: Skull Vibration Enables Low-Frequency Hearing: e0122298

by [Cunningham, K.A.; Mountain, D.C.](#)
PLOS ONE, 03/2015, Volume 10, Issue 3
Permalink

The correct sentence for this section is: "Since this value has never been measured for a baleen whale, our approach was to set the hearing threshold to be similar to that measured for toothed whales, the bottlenose dolphin [41..."

Journal Article: [Full Text Online](#)

5. Simulated masking of right whale sounds by shipping noise: Incorporating a model of the auditory periphery

by [Cunningham, K.A.; Mountain, D.C.](#)
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 03/2014, Volume 135, Issue 3
Permalink

Many species of large, mysticete whales are known to produce low-frequency communication sounds...

Journal Article: [Full Text Online](#) Cited by 2 (Web of Science™)

6. Fin Whale Sound Reception Mechanisms: Skull Vibration Enables Low-Frequency Hearing: e0116222

by [Ted W Cranford; Petr Krušl](#)
PLOS ONE, 01/2015, Volume 10, Issue 1
Permalink

Hearing mechanisms in baleen whales (Mysticeti) are essentially unknown but their vocalization frequencies overlap with anthropogenic sound sources...

Journal Article: [Full Text Online](#) Altmetric: 236

7. Marine biologists interpret whale sounds

by [Kaplan, Matt](#)
Nature News, 07/2008
Permalink

Magazine Article: [Available Online](#) Altmetric: 10

8. Automated detection and localization of bowhead whale sounds in the presence of seismic airgun surveys

by [Thode, Aaron M.; Kim, Katherine H.; Blackwell, Susanna B.; more...](#)
The Journal of the Acoustical Society of America, 05/2012, Volume 131, Issue 5
Permalink

designed for solid-fuel rocket motors. Our computer (finite element) modeling toolkit allowed us to visualize what occurs when sounds interact with the anatomic geometry of the whale's head. Simulations reveal two mechanisms that excite both bony ear complexes, (1) the skull-vibration enabled bone conduction mechanism and (2) a pressure mechanism transmitted through soft tissues. Bone conduction is the predominant mechanism. The mass density of the bony ear complexes and their firmly embedded attachments to the skull are universal across the Mysticeti, suggesting that sound reception mechanisms are similar in all baleen whales. Interactions between incident sound waves and the skull cause deformations that induce motion in each bony ear complex, resulting in best hearing sensitivity for low-frequency sounds. This predominant low-frequency sensitivity has significant implications for assessing mysticete exposure levels to anthropogenic sounds. The din of man-made ocean noise has increased steadily over the past half century. Our results provide valuable data for U.S. regulatory agencies and concerned large-scale industrial users of the ocean environment. This study transforms our understanding of baleen whale hearing and provides a means to predict auditory sensitivity across a broad spectrum of sound frequencies.

Materials Science & Engineering Database

Source: [ProQuest Central \(purchase pre-March 2016\)](#)

Publication Title: PLoS One

Publisher: Public Library of Science

Volume: 10

Issue: 1

Date : 01/2015


EISSN: 1932-6203

DOI: [10.1371/journal.pone.0116222](#)

Subjects: [Sound](#), [Whales & whaling](#), [Animal behavior](#), [Marine mammals](#)

Language: English

Altmetrics:



236

- Picked up by 24 news outlets
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Institutional repositories

Physical activity and depression: a multiple mediation analysis

Pickett, Karen, Yardley, Lucy and Kendrick, Tony (2012) Physical activity and depression: a multiple mediation analysis. *Mental Health and Physical Activity*, 5, (2), 125-134. [doi:10.1016/j.mhpa.2012.10.001](https://doi.org/10.1016/j.mhpa.2012.10.001).

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Description/Abstract

Objectives: Physical activity is associated with reduced symptoms among people with depression, but the factors that may mediate this relationship are poorly understood. We conducted multiple mediation analyses to assess whether positive affect (PA), negative affect (NA), physical activity self-efficacy, coping self-efficacy and exercise-induced feelings cross-sectionally mediated the association and the relative importance of each of these. We also examined whether leisure-time, non-leisure time or total physical activity were more strongly associated with depression.

Method: Participants (N = 164) experiencing depression or low mood completed a one-off postal questionnaire containing measures of physical activity, depression, the potential mediators and covariate variables. Data were analysed using correlations and multiple mediation analyses, controlling for the covariates.

Results: Higher levels of leisure-time and total, but not non-leisure time, physical activity were significantly associated with lower depression. Improvement in PA, pleasant feeling states, NA and levels of physical exhaustion significantly mediated the association between leisure-time and total, but not non-leisure time, physical activity and depression. Post-hoc analyses showed that improvements in physical activity self-efficacy mediated the leisure-time physical activity and depression relationship through improved PA. Coping self-efficacy was not a statistically significant mediator.

Conclusions: Leisure-time physical activity may be more beneficial for depression than non-leisure time physical activity, as it increases PA and pleasant feelings and reduces NA and physical exhaustion. PA responses may be partly dependent on improvement in physical activity self-efficacy. People's psychosocial experiences of physical activity may be more important predictors of their depression response than total energy expenditure.

Item Type: Article

Digital Object Identifier (DOI): [doi:10.1016/j.mhpa.2012.10.001](https://doi.org/10.1016/j.mhpa.2012.10.001)

ISSNs: [1755-2966 \(print\)](https://www.elsevier.com/locate/0190-7401)

Related URLs: http://www.sciencedirect.com/s_012000543#

Keywords: exercise, mental health, psychological mechanisms, positive affect, negative affect, self-efficacy

Divisions: [Faculty of Medicine](#)
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Susan E Parks

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Bottom side-roll feeding by humpback whales (*Megaptera novaeangliae*) in the southern Gulf of Maine, U.S.A

Ware, C., Wiley, D. N., Friedlaender, A. S., Weinrich, M., Hazen, E. L., Bocconcelli, A.,

Susan E Parks

, Stimpert, A. K., Thompson, M. A. & Abernathy, K. 2014 In : Marine Mammal Science. 30, 2, p. 494-511 18 p.

Article

[animal](#) [whale](#) [fishing gear](#) [feeding behavior](#) [vulnerability](#)

8

Citations



Evidence for acoustic communication among bottom foraging humpback whales

Susan E Parks

, Cusano, D. A., Stimpert, A. K., Weinrich, M. T., Friedlaender, A. S. & Wiley, D. N. Dec 16 2014 In : Scientific Reports. 4, 7508

Article

[Humpback Whale](#) [Acoustics](#) [Communication](#) [Singing](#) [Feeding Behavior](#)

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Citations



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Bottom sideâroll feeding by humpback whales (*Megaptera novaeangliae*) in the southern Gulf of Maine, U.S.A

Overview of attention for article published in Marine Mammal Science, January 2013



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Readers on

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redOrbit

Bottom-Feeding Observed In Gulf Of Maine Humpback Whales

redOrbit, 31 Oct 2013

April Flowers for redOrbit.com - Your Universe Online Humpback whales have exhibited a complex set of feeding techniques...

NATURE WORLD NEWS

Humpback Whales Are Primarily Bottom Feeders [VIDEO]

Nature World News, 30 Oct 2013

Building off recent research that documented three distinct types of bottom feeding tactics deployed by humpback whales...

ScienceDaily

Bottom-feeding behavior of humpback whales confirmed

Science Daily, 30 Oct 2013

Scientists have confirmed that humpback whales in the southern Gulf of Maine are spending more feeding time on the ocean floor...

EarthSky

The foraging acrobatics of humpback whales

EarthSky, 21 Oct 2013

Acoustic and camera tags attached to the whales revealed a repertoire of feeding acrobatics. The video in this post gives you a...

ScienceNewsline

Research Reveals Bottom Feeding Techniques of Tagged Humpback Whales in Stellwagen Bank Sanctuary

Science Newsline, 26 Sep 2013

New NOAA-led research on tagged humpback whales in Stellwagen Bank National Marine Sanctuary reveals a variety of previously...

NATURE WORLD NEWS

Humpback Whale's Bottom Feeding Tactics Revealed [VIDEO]

Nature World News, 26 Sep 2013

Humpback whales employ a variety of bottom feeding techniques on the ocean floor, researchers have learned after studying...

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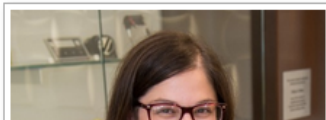
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Subject Guide



Introduction

Discovering and documenting one's research impact is an important part of the scholarly process. This guide is designed to help you understand the methods and tools available for documenting impact.

- **Journal Metrics** shows tools for determining highly-cited journals
- **Citation Metrics** Includes instructions for performing cited reference searches in three major resources - **Scopus**, **Web of Science**, and **Google Scholar** - illustrating the number of times an author or published work has been cited.
- **Altmetrics** is a new means of measuring a scholar's impact based on their presence in the social web using online tools and environments.

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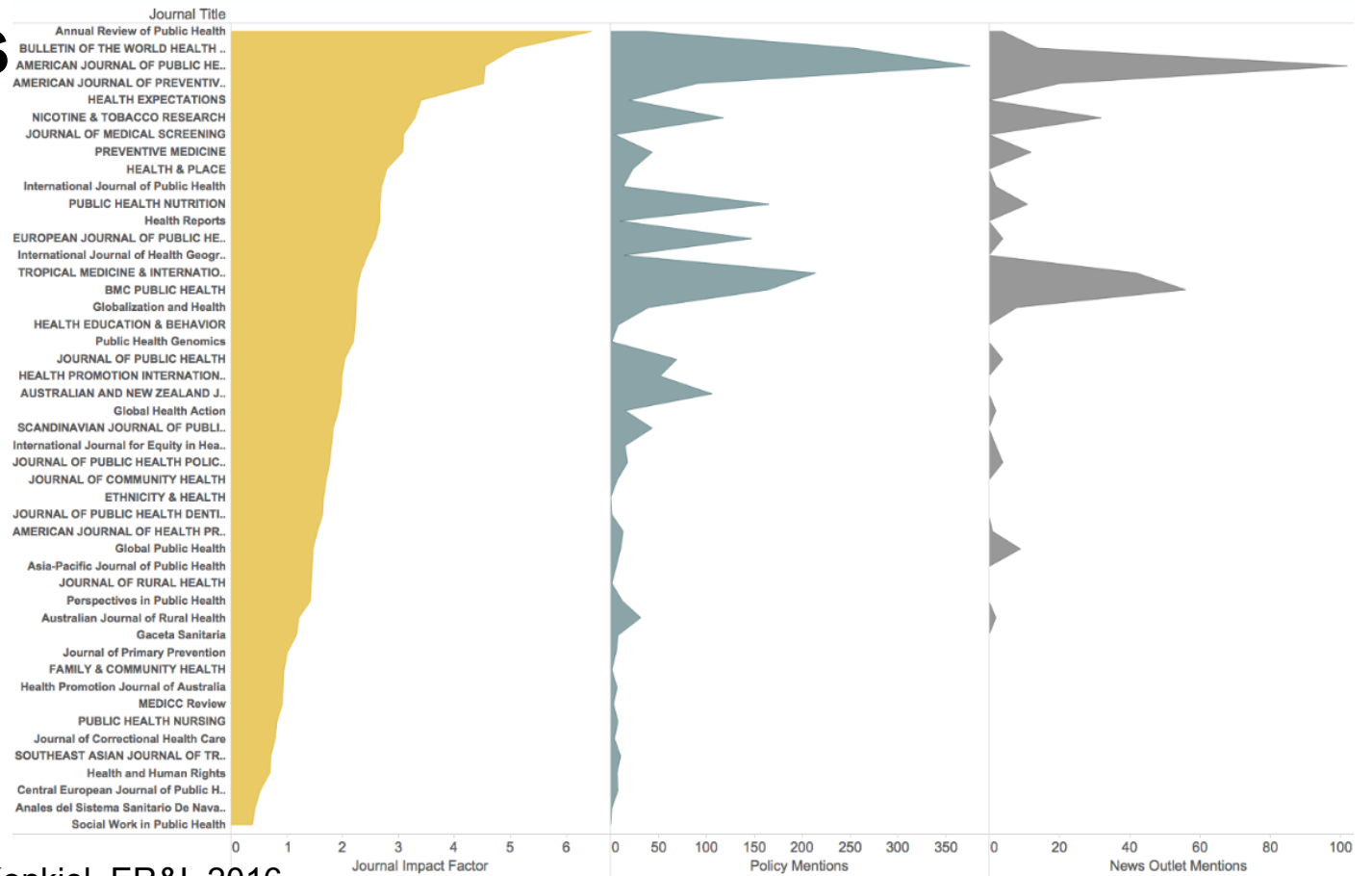
Syracuse University Advance

Lunch & Learn: Demonstrating Your Scholarly Impact

Friday, February 26, 2016

Quantifying scholarly output via citation metrics is the long-standing practice to gauge academic success. While there are many limitations to this practice, the tools and methods used are important for scholars to understand. This workshop, led by Anne Rauh, Science & Engineering Librarian and Interim Collection Development and Analysis Librarian for Syracuse Libraries, taught participants to demonstrate the impact of their work through metrics such as impact factor, h-index, and citation counts. It discussed access to the tools that provide these metrics and best practices for demonstrating one's scholarly impact.

Collections



Robin Champieux and Stacy Konkiel, ER&L 2016

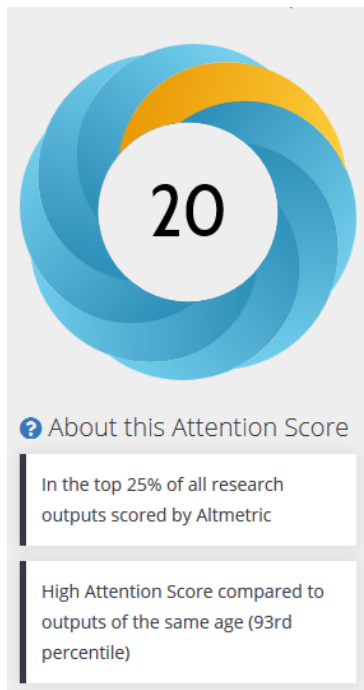
Leading by example

Skills

“Chris Bourg, director of MIT Libraries, Cambridge, MA, says some librarians may need to help scholars put together the data needed for tenure and promotion reviews.”

Schwartz, Meredith. “[Top Skills for Tomorrow’s Librarians: Careers 2016.](#)” *Library Journal*.

Promote yourself



Anne Rauh  

 2  3  1

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7 ACHIEVEMENTS



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-  fun (1)

Altmetrics resources

[A Practical Guide to Altmetrics for Scholarly Communication Librarians](#) by Natalia Madjarevic

[What Are Altmetrics?](#) by Stacy Konkiel, altmetrics.com

[Keeping Up With... Altmetrics](#) by Robin Chin Roemer and Rachel Borchardt

Questions?

Anne Rauh

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aerauh@syr.edu