#### University of Massachusetts Amherst

#### ScholarWorks@UMass Amherst

Open Access Week

2022 Open Access Week

Oct 24th, 4:00 PM - 5:00 PM

#### Micah Vandegrift Keynote - Open to Change: Possibilities and **Probabilities**

Micah Vandegrift

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Vandegrift, Micah, "Micah Vandegrift Keynote - Open to Change: Possibilities and Probabilities" (2022). Open Access Week. 1.

https://scholarworks.umass.edu/oa/2022/keynote/1

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# Open to Change: Possibilities and Probabilities

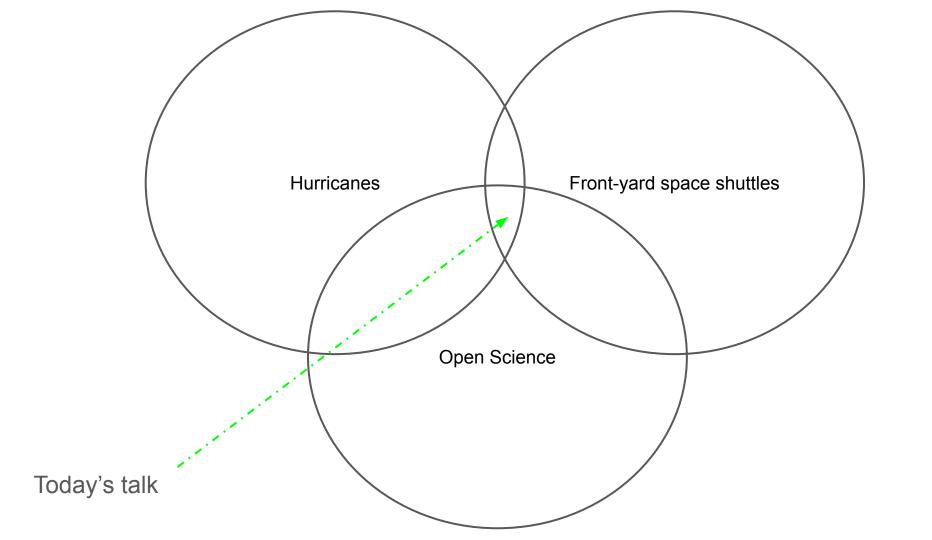
Micah Vandegrift | @micahvandegrift UMass-Amherst - Open Access Week Oct. 24, 2022



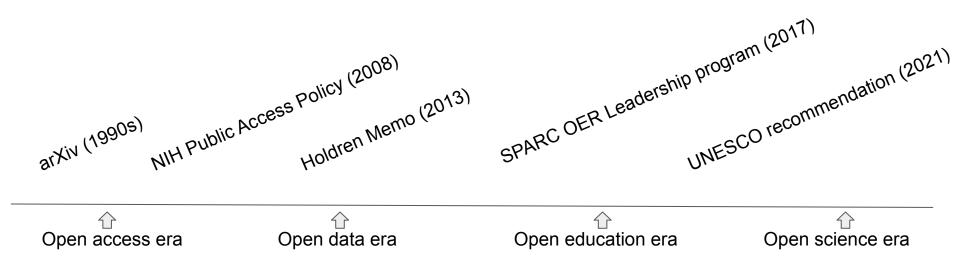




Family pictures from Hurricane Erin, 1995

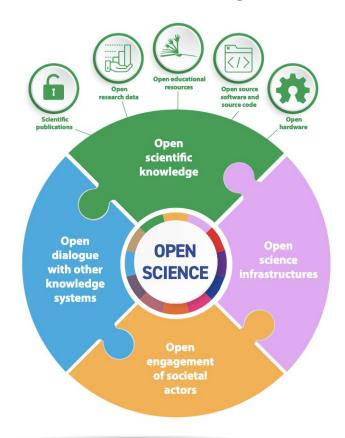


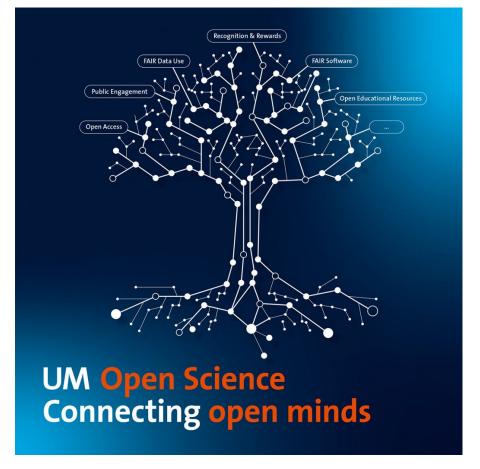
# Open Science: From UNESCO to UMass



Adapted from – Marshall, B., Rampin, V., & Vandegrift, M. (2019, May 13). Advocating for Open: Putting Ethics Into Practice. https://doi.org/10.31229/osf.io/jhvtc

#### A note about lingo





Images from UNESCO Open Science Recommendation and Open Science Community - Maastricht University



Welcome to *Humanities Commons*, the network for people working in the humanities. Discover the latest open-access scholarship and teaching materials, make interdisciplinary connections, build a WordPress Web site, and increase the impact of your work by sharing it in the repository.

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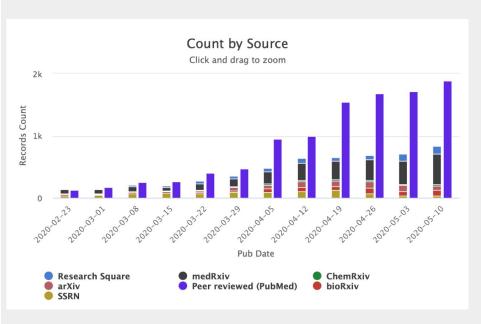
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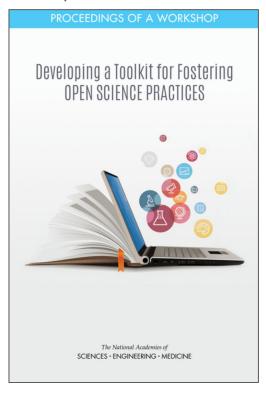
https://hcommons.org/



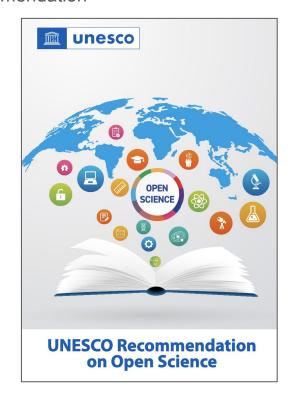
https://asapbio.org/preprints-and-covid-19

#### Evidence of evolution

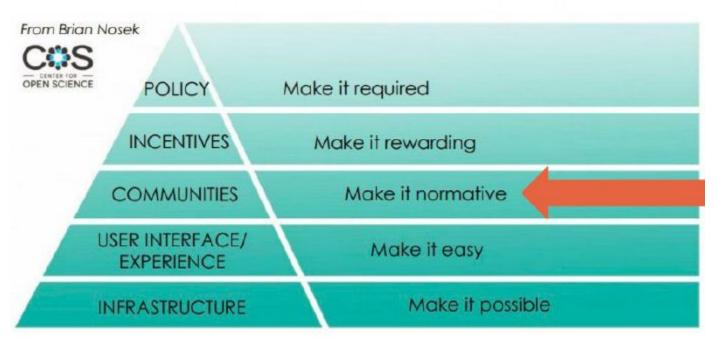
National Academies Roundtable on Aligning Incentives for Open Science



UNESCO global open science consultation and recommendation



#### Changing a Research Culture



Julia Stewart Lowndes, presentation, National Academies of Sciences, Engineering, and Medicine, November 5, 2020, based on Brian Nosek, Center for Open Science.

National Academies of Sciences, Engineering, and Medicine. 2021. Developing a Toolkit for Fostering Open Science Practices: Proceedings of a Workshop. Washington, DC: The National Academies Press. https://doi.org/10.17226/26308.

# Open Science + Climate + Local Action



Academic rigor, journalistic flair

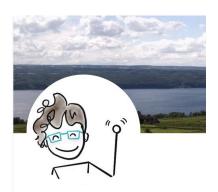
COVID-19 Arts + Culture Economy Education Environment + Energy Ethics + Religion Health Politics + Society Science + Technology



The Doge's Palace and St. Mark's Square flooded during acqua alta - high tide - in Venice, Italy. Matteo Colombo/Getty Images



#### Natalie Nelson @NatalieGNelson Follows you



**Sheila Saia**@sheilasaia Follows you

B SM Saia, NG Nelson, SN Young, S Parham, M Vandegrift. Ten Simple Rules for Researchers Who Want to Develop Web Apps. PLOS Computational Biology (in revision and preprint via EarthArxiv), 2021.

Preprint Project

■ SM Saia, HJ Carrick, AR Buda, JM Regan, MT Walter. Critical Review of Polyphosphate and Polyphosphate Accumulating Organisms for Agricultural Water Quality Management. ES&T (and preprint via EarthArxiv), 2021.



**SM Saia**, NG Nelson, AS Huseth, K Grieger, BJ Reich. Transitioning machine learning from theory to practice in natural resources management. *Ecological Modelling (and preprint via EarthArxiv)*, 2020.

Preprint PDF Project

Preprint Project





**Earl Grey Literature** 

Open Kombucha Knowledge

Credit, Contributors, and Chai

Diversity, Documentation, and Darjeeling

and more!!

Notes and resources available at:

https://github.com/sheilasaia/reproducibili-tea

#### Office of Research and Innovation

About Research Initiatives

Research Portal

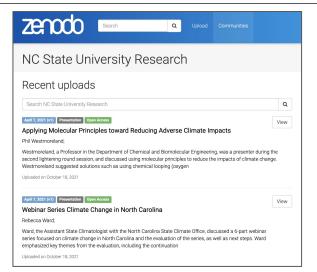
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News

# 2021 University Research Symposium

The Office of Research and Innovation hosted the 2021 University Research Symposium, presented by the Research Leadership Academy (RLA) and the NC State University Libraries, via a series of Zoom meetings and webinars throughout the week of March 22nd. Featuring keynote addresses, discussion panels, lightning-round presentations, networking sessions and more, the 2021 University Research Symposium focused on Climate Change and Resilience.





Losing One's Home in a Natural Disaster:
Implications for Subsequent Coping and Health

Shevaun Neupert

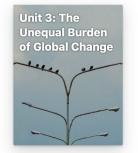
April 7, 2021

Contributors: Emily Smith, Alexandra Early, Griffin Burke, Kathryn Butler, Jindi Gao, Morgan Cobler, & Sammy Sheaffer

Neupert, a Professor in the Department of Psychology, was a presenter during the first lightening round session, and discussed results from a study conducted by her lab investigating peoples' response to stressful events, their strategies for coping, and number of chronic health conditions they experienced. The aim was to identify coping and health consequences of home loss from a natural disaster. The participants who reported losing a home also reported greater proactive coping (doing significantly more to avoid future stress) compared to those who did not lose a home. The data also showed that high proactive coping is associated with fewer chronic health conditions. Neupert concluded that this research may have implications for physical health and addressing stress.











**Unit 1: Global Change: Why We Need to Act Now** 



#### Preview: Global Change: Why We Need to Act Now

by Melissa Ramirez and Jason Flores

Melissa Ramirez, Ph.D. and Jason Flores, Ph.D. provide an introduction to the topic of Global Change and to the course Wicked Problems, Wolfpack Solutions: Global Change.

https://ncsu-wolfpack-solutions.pubpub.org/global-change

# Open Climate Data Science Symposium

March 21





#### **Motivation**

Climate change touches many aspects of life and is a top challenge facing future generations in North Carolina. Many publicly available datasets exist to support adaptation and resilience in the face of climate change. However, these data can often be difficult for communities to access, analyze, interpret, and put into action given their local knowledge and lived experiences.

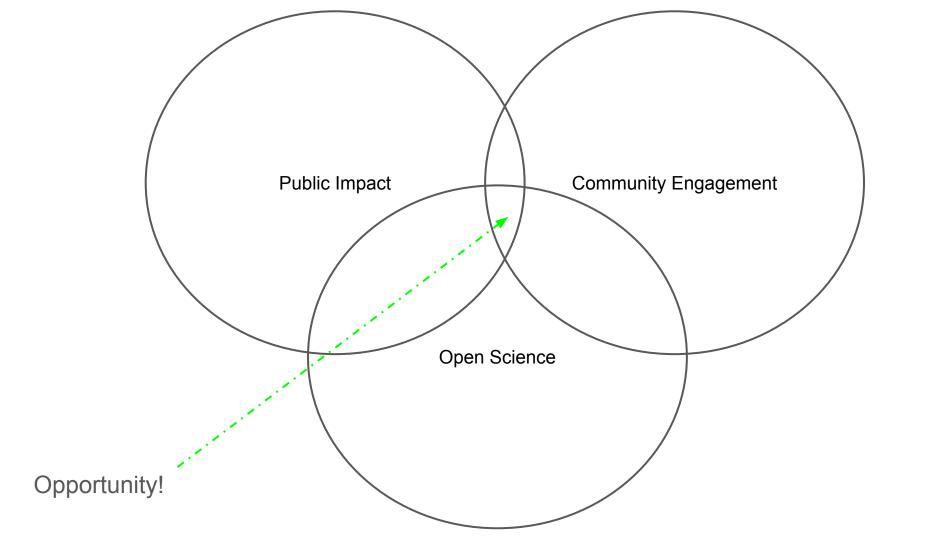
#### Goals

To initiate steps to overcome these hurdles, this virtual workshop will:

- facilitate collaborations between communities, organizations, climate scientists, and data scientists with shared goals and interests
- 2. **build capacity** to use publicly available (i.e., "open data") weather and climate data along with reproducible science practices (i.e., "open science") and local knowledge

https://open-climate-data-science.github.io/

# Public Impact Research



"...committing to the recognition of the plurality of knowledge means democratizing knowledge and giving birth to a new form of justice on the international knowledge scene [...] we are convinced that open digital technologies can become a very effective means of preserving traditional knowledge on one hand, and bringing them into the global conversation around climate mitigation on another hand."





Mboa, T., & Koumi, R. (2022)
African Traditional Knowledge and Open Science for Climate Mitigation. *Branch*, Iss. 4
https://branch.climateaction.tech/issues/issue-4/african-traditional-knowledge-and-open-science-for-climate-mitigation/

# African Traditional Knowledge and Open Science for Climate Mitigation

Thomas Mboa and Ahou Rachel Koumi



Beti mask made with *Obom* by Eya'a Enama Ambroise (with the courtesy of Brigitte Nga Ondigui)

# Closing

#### THE CHRONICLE OF HIGHER EDUCATION

'A Historic Moment': New Guidance Requires Federally Funded Research to Be Open Access

nature

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The New York Times

nature > news > article

NEWS | 26 August 2022 | Correction 30 August 2022

### US government reveals big changes to open-access policy

Biden administration instructs all US agencies to require immediate access to federally funded research after it is published, starting in 2026.

#### White House Pushes Journals to Drop Paywalls on Publicly Funded Research

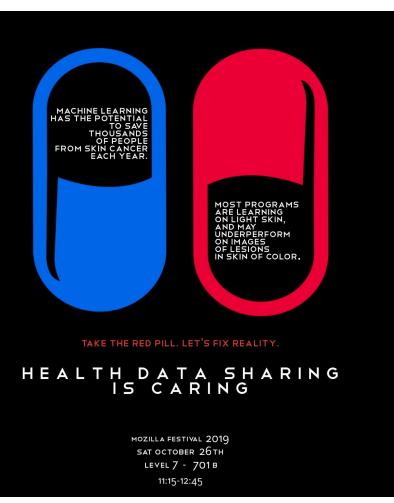
The policy, hailed by researchers as "transformational," will be fully in place by 2026 and make publicly financed research available immediately at no cost.



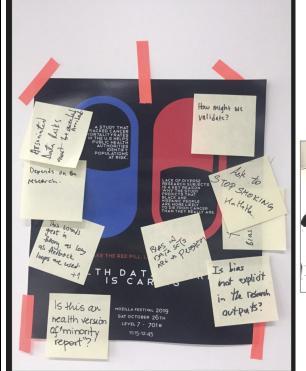




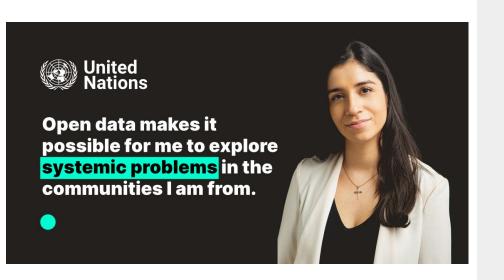




### MozFest 2k19, London







Open science can contribute to equity, if it enables people who are historically marginalized to learn about and research topics important to them and their communities, and have their research recognized and rewarded, and have that translate in impact for their communities...

Natalia Norori at the UN OpenScience Conference



#### What can you as a researcher do?

- Deposit a preprint of your publication in a preprint repository.
- Publish your papers open access.
- Deposit a postprint in an OA repository.
- Deposit your data openly with the CCO public domain dedication to a data repository.
- <u>Upload your scientific code / scripts/ models openly</u> in a code repository.
- · Join the Open Climate Campaign newsletter.
- Tell other researchers about the campaign

#### **RESEARCHER ACTION KIT**

English Español Français

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https://openclimatecampaign.org/

### Thank you!

Open to Change: Possibilities and Probabilities

Micah Vandegrift | @micahvandegrift UMass-Amherst - Open Access Week Oct. 24, 2022