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Where Science & Art Meet, Society Benefits

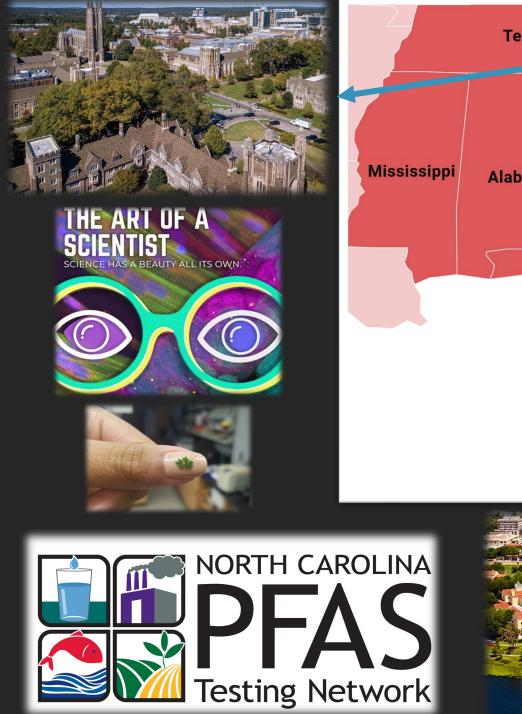
KIETS Climate Leaders Fall Symposium

Sept 29, 2023

Ariana N. Eily, PhD

Biology Dept

Elon University





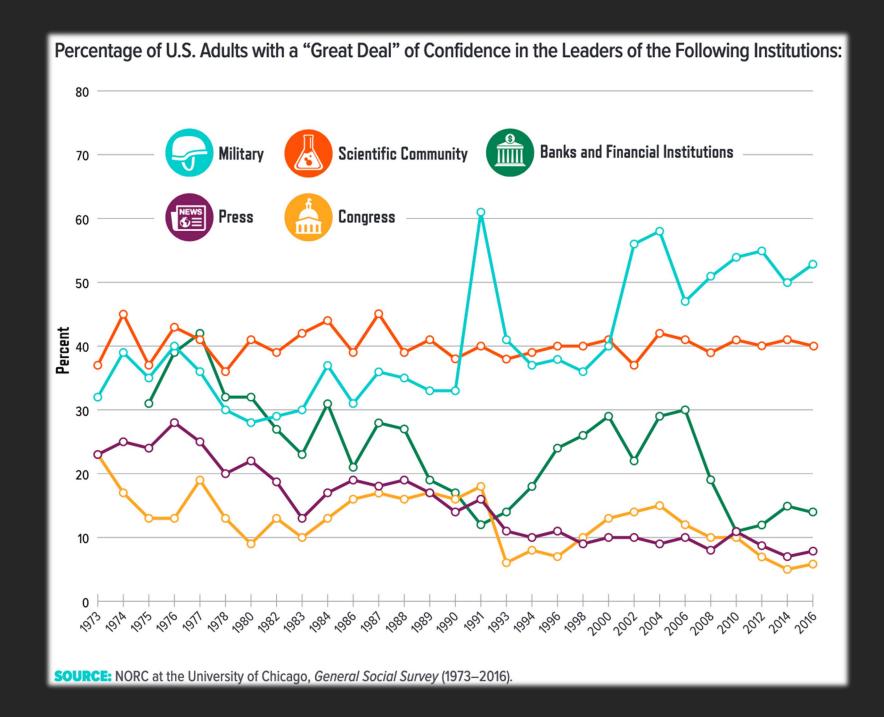


What does a biology prof & art director have to say about climate change?

Scientists & Researchers

Scientific Community

the "Public"



Public confidence in scientists and medical scientists has declined over the last year

% of U.S. adults who have _____ of confidence in the following groups to act in the best interests of the public

A great deal A fair amount Not too much/No confidence at all

Medical scientists **Scientists** The military 76 79 83 86 87 84 87 89 85 79 80 83 82 83 83 78 43 40 33 39 41 36 38 39 33 <mark>35</mark> 39 39 35 21 27 29 13 11 14 12 15 17 18 16 17 22 19 Jun Dec '20 '21 Dec '16 '18 Apr Jun Dec Apr '21 '20 '21 '18 '20 '16 '16 '18 '19 '20 Nov Nov Feb Jan Jan '20 '19 '18 '19 '20

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Anti-science extremism in America: escalating & globalizing.

The last 5 years has seen a sharp rise in anti-science rhetoric in the US, especially from the political far right, mostly focused on **#Vaccines** & anti- **#COVID19** prevention approaches.

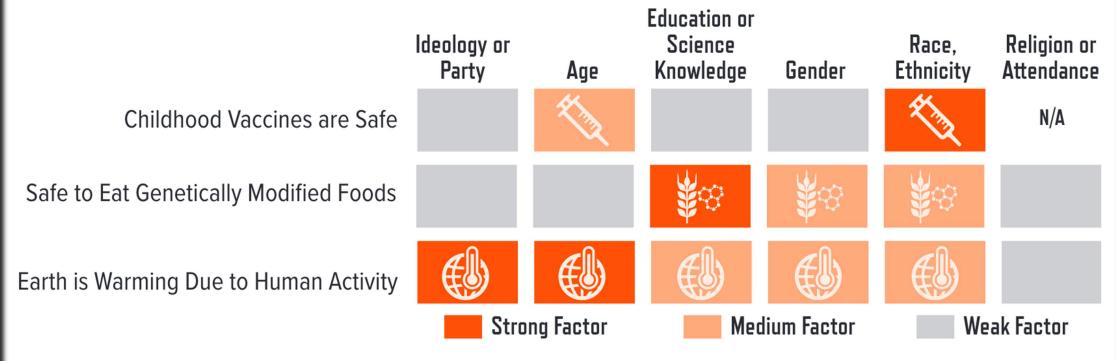
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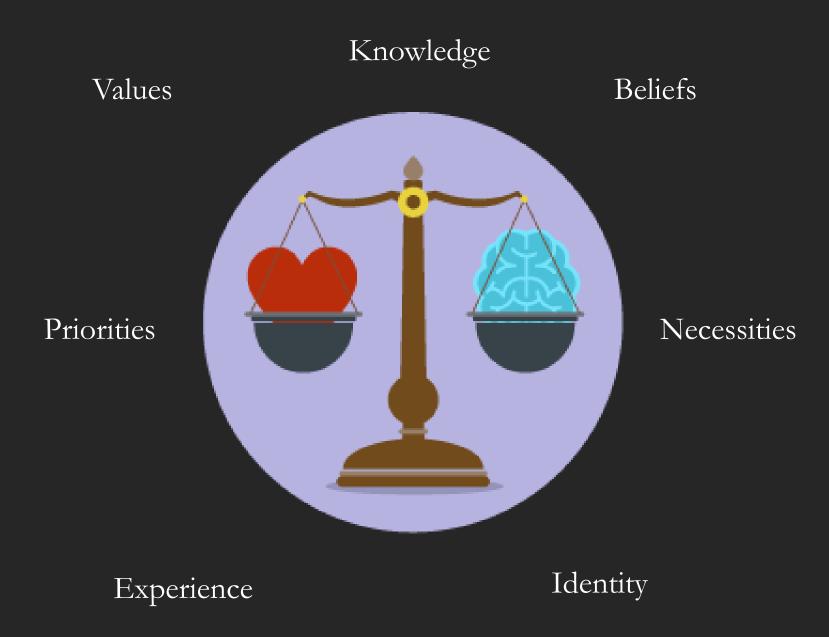
8:12 PM · Nov 14, 2020 · Twitter Web App

People's Perspectives on Science Vary

Relative Strength and Statistical Significance of Factors Influencing Views on Controversial Issues



SOURCE: Cary Funk and Lee Rainie, Americans, Politics and Science Issues, Pew Research Center (July 1, 2015; survey conducted August 2014).



"It's not about scientists delivering information to the public, it's about scientists forming a *relationship* with the public."



Science and Art connect us.



Now Opening: the Art of a Scientist

Connect scientists & artists Create public engagement Promote conversation













Art can also help us connect to more abstract science.



Concerns with AI & its creation



Art can convey both science's side of the story, and people's personal experience.

NORTH CAROLINA'S TOXIC TAP WATE

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A TODD HAYNES FILM

RUFFALO HATHAWAY ROBBINS BILL VICTOR BULLMAN DARK ROBBINS BILL VICTOR PULLMAN ONE OF THE DEADLIEST COVER-UPS IN AMERICAN HISTORY

"A PERFECT FILM. RIVETING, POWERFUL AND IMPORTANT" OBSERVER "MARK RUFFALO'S BEST PERFORMANCE YET" HOLLYWOOD NEWS





The beauty of North Carolina's lakes and rivers is being threatened by a group of human-made chemicals, known as PFAS, including GenX.



To understand the extent of PFAS contamination across the state, the North Carolina General Assembly funded a statewide research study.



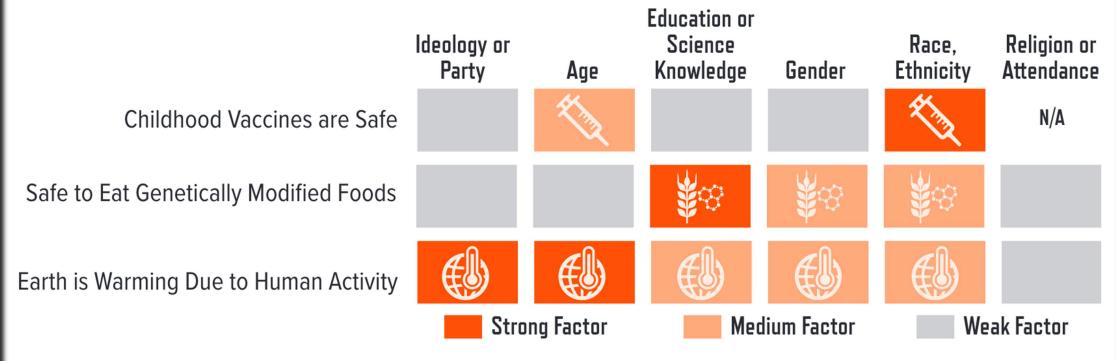
This study is a collaboration among universities to document the presence of PFAS and understand its impacts on the environment and our health. These are complex issues that need many perspectives to solve.



Climate Change is a complex problem too.

How the Public Sees Climate Change

Relative Strength and Statistical Significance of Factors Influencing Views on Controversial Issues



SOURCE: Cary Funk and Lee Rainie, Americans, Politics and Science Issues, Pew Research Center (July 1, 2015; survey conducted August 2014).

People are a Central Part to Solving Climate Change & Understanding Its Impact

People's Experiences Show Us the Impact of Climate Change



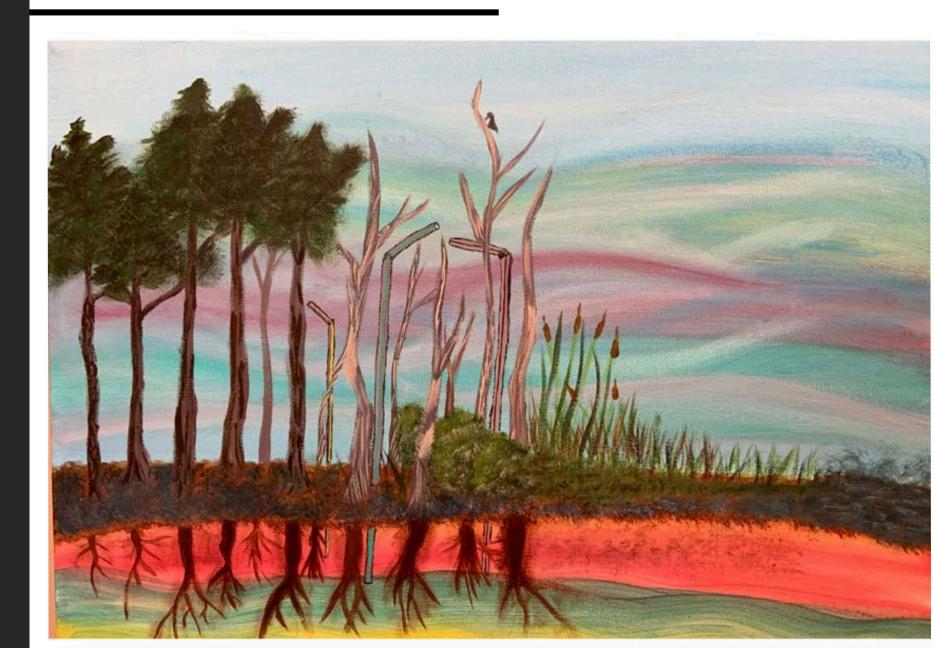
People's Concerns Show Us the Impact of Its Solutions



How can art-science collaborations help us with climate change?

We can talk about saltwater intrusion's impact on the land.

MELINDA MARTINEZ GREENHOUSE GASES IN GHOST FORESTS



Pollution's impact on necessary wildlife



+ GREG MERRILL

NORTHERN FUR SEAL

INGRID ERICKSON:

I enjoy working with and learning from scientists. In this series I have created "specimens," such as this Northern Fur Seal, for an imagined Natural History collection. Works range in size from half an inch to over 6 feet. I used fishing line to suspend certain pieces and help them hold their shape.

This piece is part of a new body of work made during the pandemic. My MUSEUM series features a new body of 3-dimensional hand-cut paper sculptures, over 40 of which are on view on my website.

CLICK HERE TO VIEW THE MUSEUM SERIES

Contact | Email: ingridaerickson@yahoo.com | Website

GREG MERRILL:

This northern fur seal on the Pribilof Islands of Alaska is entangled in marine debris. My current research is aimed at identifying the effects of plastic pollution on polar marine mammals. Fur seals serve as an important subsistence resource to Alaska natives and understanding the link between plastic pollution, its effects on seal populations, and ultimately the impact on the people who depend on the fur seals is a huge knowledge gap worth bridging.

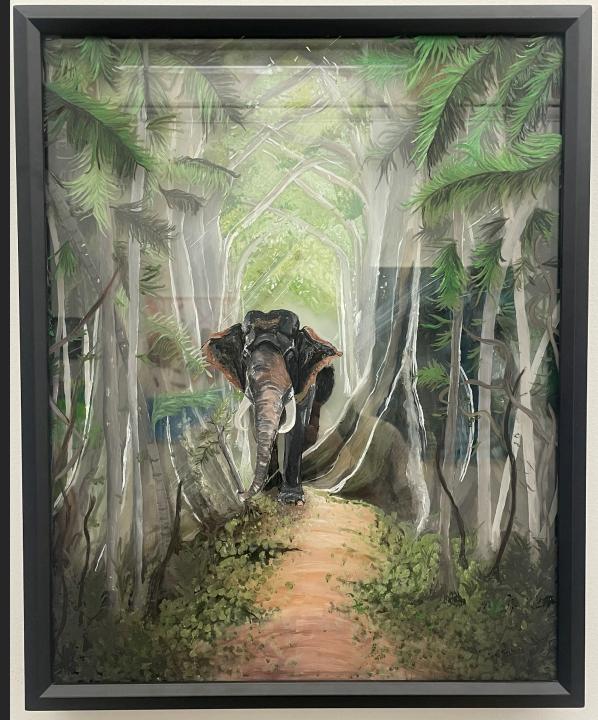
Contact | Email: gregory.merrill@duke.edu



Developing new ecofriendly materials



And what possible solutions look like, such as this one focused on rewilding.



How Can We Create These Collaborations?

Where Do We Start?

It's okay if you don't know what you're doing
Talk to people outside of your field
Connect with different communities
Develop a common goal
Be open-minded & supportive

Thanks for listening! Questions?