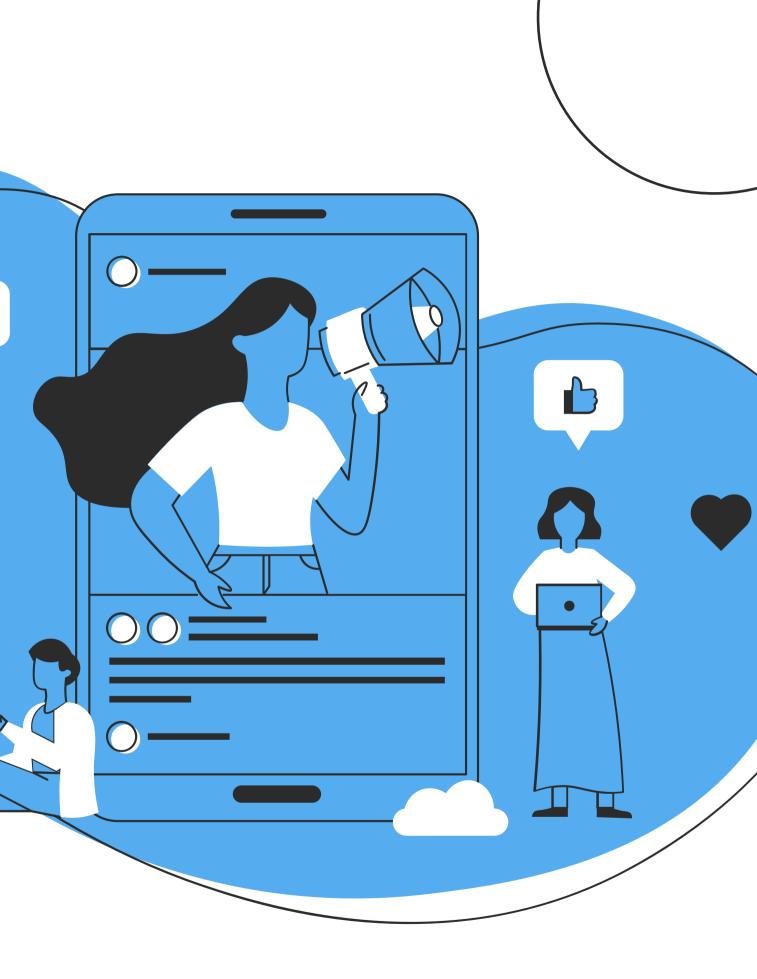
Science Communication: Increase the impact of your work

Alexandra Colón-Rodríguez, Ph.D. Postdoctoral Research Fellow at the B3 Lab Department of Neurobiology, Physiology and Behavior University of California Davis



•••

Communicating science...





Amplificando Puertorriqueñas en STEAM alrededor del Mundo | Amplifying Puerto Rican women in STEAM around the World | Founders: @alexcr_1 &

◎ From PR to the World *⊗* linktr.ee/steam100x35 III Joined March 2020



COVID-19 National Scientist Volunteer Database

Home Sign Up Database Preview Access FAQ • Contact

Welcome to the COVID-19 Pandemic Shareable Scientist Response Database

This is a database of scientists from all 50 states, DC, Puerto Rico, and Guam who are eager to volunteer our time, expertise, equipment, and consumables to help you respond to the COVID-19 crisis. We have aggregated our contact information, locations, and skills sets into this easy to use centralized database. Our members include experts in scientific testing, bioinformatics, and data management, as well as key contacts willing to donate lab space and testing supplies.

For more information, visit our website at covid19sci.org or contact us at COVID19SciVolunteers@gmail.com

Job C	ategory		- Institution		•	Other sk	ills/experience?		-				
State		- County			•	City			► Pc		Postal Code		
qPCR	experience?	- RNA e	extraction experience?	► BSL2 Auth	orized?	•	Experience working	; with RNA viruses	? •	Do yo	u have RNA extrac	tion kits you are willing t	•
													:
Postal Code	State	City	County	Job Category	Job Title		Do you have qPCR experience?	Do you have RNA extraction experience?	Do you have experience with RNA vi	working	Are authorized to do BSL2 work?	Other skills/experience?	Do you have RNA extraction kits you are willing to donate?
2139	Massachusetts	Cambridge	Middlesex County	Postdoctoral	Postdoc		Yes	Yes	No		Yes		No
2139	Massachusetts	Cambridge	Middlesex County	Graduate Student	graduate stude	ent	Yes	Yes	No		Yes	RNA sequencing, Bioinformati	cs Maybe
2138	Massachusetts	Cambridge	Middlesex County	Graduate Student	Graduate stud	ent	Yes	Yes	No		Yes		No
6511	Connecticut	New Haven	New Haven County	Postdoctoral	Postdoc		Yes	Yes	No		Yes		No
2138	Massachusetts	Cambridge	Middlesex County	Postdoctoral	Postdoc		Yes	Yes	No		Yes		No
90063	California	Los Angeles	Los Angeles County	Graduate Student	Graduate Stud	lent	Yes	Yes	No		Yes	Bioinformatics	No
2155	Massachusetts	Medford	Middlesex County	Graduate Student	Graduate Stud	lent	Yes	Yes	No		Yes	RNA sequencing	Maybe

Scientists in action fighting COVID-19

Meet the Team



more >

Diary of a Database

The official blog of the COVID-19 National Scientist Volunteer Database that covers what we offer, what we have accomplished, and who we are.

more >

Access and **Opportunities**

Looking for ways to get involved? Tired of waiting for us to contact YOU? Want to know who has access to the database? All these answers and more can be found here.

Local Groups

A list of locally organized scientist volunteer groups, plus a guide for team building.

more >

External Resources

External initiatives, fact pages, and mental health resources.

more >

In the News

AP







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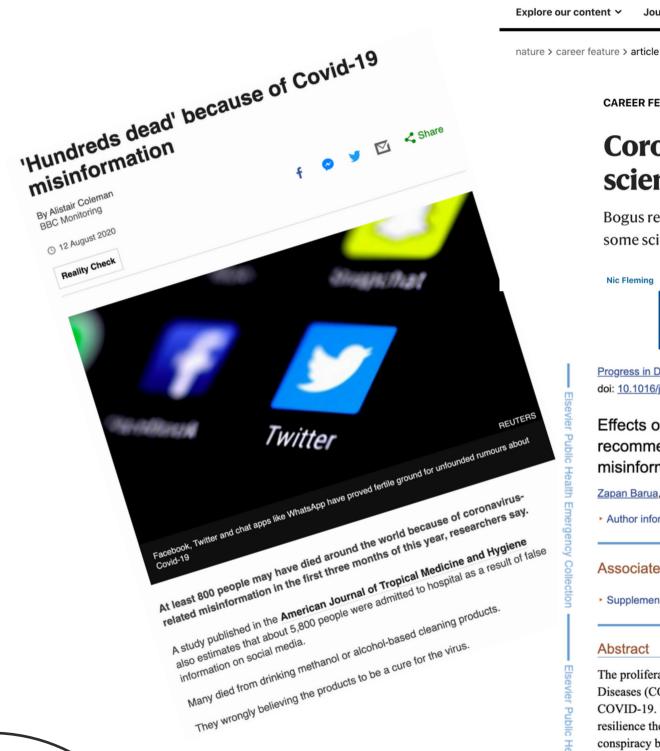


Alexandra Colón-Rodríguez, PhD

Social Media Lead & **Spanish Translator**

Postdoctoral Fellow, UC Davis Alexandra (Alex) Colón-Rodriguez, PhD is a Social Media Coordinator and Spanish Translator at NSVD. She is a postdoctoral fellow at the University of California Davis College of Biological Sciences. Her position involves neuroscience and science communication. Her research work focuses in understanding the effects of single parenting in the amygdala of parents and offspring. Her SciComm work includes developing a SciComm training program for faculty at UC Davis in collaboration with UC San Diego.

Pandemic + misinformation = catastrophe



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CAREER FEATURE · 17 JUNE 2020 · CLARIFICATION 24 JUNE 2020

Coronavirus misinformation, and how scientists can help to fight it

Bogus remedies, myths and fake news about COVID-19 can cost lives. Here's how some scientists are fighting back.

Nic Fleming

Elsevier Public Health Emergency Collection

Progress in Disaster Science. 2020 Jul 21 : 100119. doi: 10.1016/j.pdisas.2020.100119 [Epub ahead of print] PMCID: PMC7373041

Effects of misinformation on COVID-19 individual responses and recommendations for resilience of disastrous consequences of misinformation

Zapan Barua,^{a,*} Sajib Barua,^a Salma Aktar,^a Najma Kabir,^a and Mingze Li^b

• Author information • Article notes • Copyright and License information Disclaimer

Associated Data

Supplementary Materials

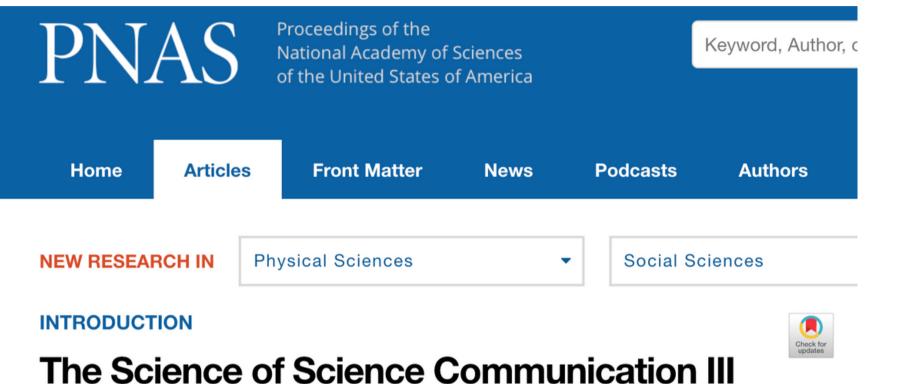
Abstract

Go to: 🖂

The proliferation of misinformation on social media platforms is faster than the spread of Corona Virus Diseases (COVID-19) and it can generate hefty deleterious consequences on health amid a disaster like COVID-19. Drawing upon research on the stimulus-response theory (hypodermic needle theory) and the resilience theory, this study tested a conceptual framework considering general misinformation belief, conspiracy belief, and religious misinformation belief as the stimulus; and credibility evaluations as resilience strategy; and their effects on COVID-19 individual responses. Using a self-administered online survey during the COVID-19 pandemic, the study obtained 483 useable responses and after test, finds that all-inclusive, the propagation of misinformation on social media undermines the COVID-19 individual responses. Particularly, credibility evaluation of misinformation strongly predicts the COVID-19 individual responses with positive influences and religious misinformation beliefs as well as conspiracy beliefs and general misinformation beliefs come next and influence negatively. The findings and general recommendations will help the public, in general, to be cautious about misinformation, and the respective authority of a country, in particular, for initiating proper safety measures about disastrous misinformation



Importance of communicating science

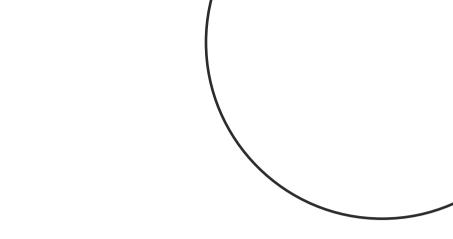


Dietram A. Scheufele

PNAS April 16, 2019 116 (16) 7632-7633; first published April 15, 2019 https://doi.org/10.1073/pnas.1902256116

Without effective communication, the scientific community cannot fulfill its promise to society or secure the trust needed to support its enterprise. Because science affects stakeholders with diverse backgrounds, interests, and incentives, that communication requires contributions from across the social, behavioral, and decision sciences.

- Effect change.
- and leaders.



• Currently, help save lives.

Encourage the next generation of scientists

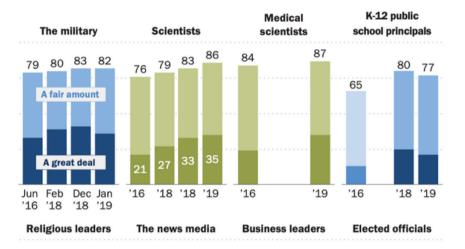
• Share the importance of your work.

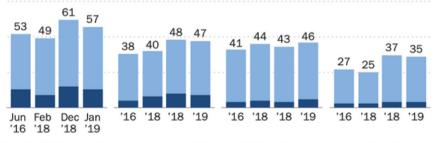
• Help the scientific enterprise become stronger with our diverse perspectives.

American's confidence in scientists

Americans' confidence that scientists act in the public interest is up since 2016

% of U.S. adults who say they have a great deal or fair amount of confidence in each of the following groups to act in the best interests of the public



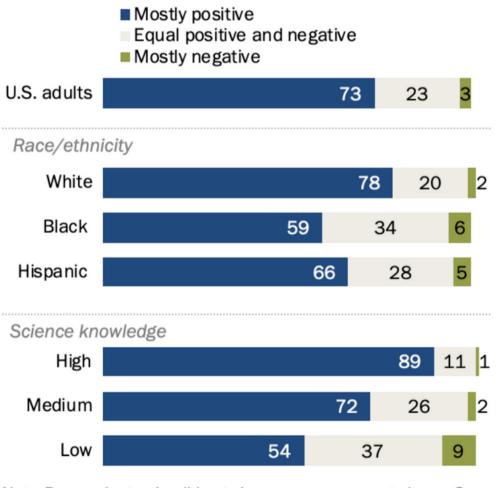


Note: In 2016, question asked about confidence in K-12 public school principals and superintendents. Respondents were randomly assigned to rate either their confidence in "scientists" or "medical scientists" in 2016 and 2019. Respondents who gave other responses or who did not give an answer are not shown. Source: Survey conducted Jan 7-21, 2019. "Trust and Mistrust in Americans' Views of Scientific Experts"

PEW RESEARCH CENTER

Majority of Americans say science has a mostly positive impact on society

% of U.S. adults in each group who say science has had a _____effect on society



Note: Respondents who did not give an answer are not shown. See Methodology of report for details on index of science knowledge. Whites and blacks include those who report being only one race and

are non-Hispanic. Hispanics are of any race.

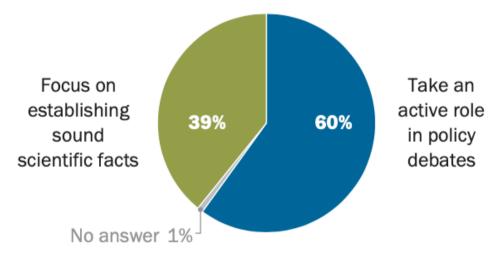
Source: Survey conducted Jan. 7-21, 2019.

"Trust and Mistrust in Americans' Views of Scientific Experts"

PEW RESEARCH CENTER

Six-in-ten in U.S. say scientists should take an active role in policy debates

% of U.S. adults who say scientists should _____ when it comes to public policy debates about scientific issues



Source: Survey conducted Jan. 7-21, 2019. "Trust and Mistrust in Americans' Views of Scientific Experts"

PEW RESEARCH CENTER

Many platforms for SciComm

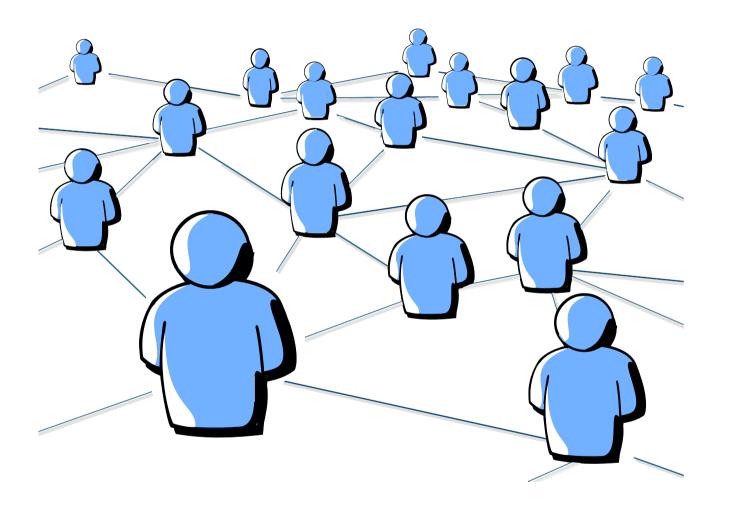












"The goal of communication is not about output; it's about impact" – The Master Communicator's Handbook

Important steps to get started

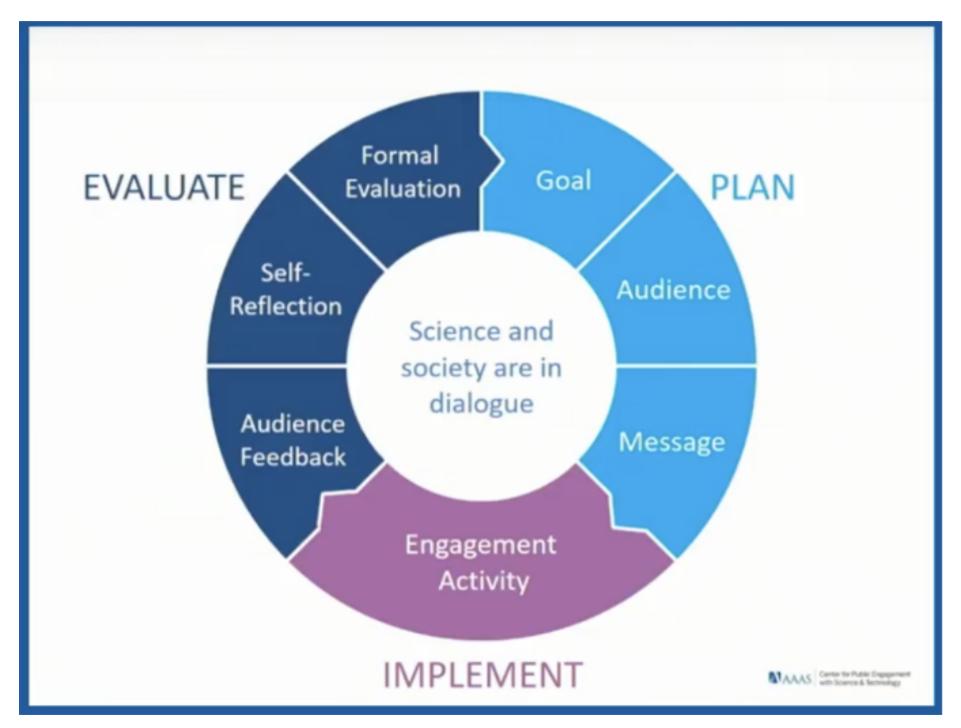


Image from Force for Science Workshop https://www.aaas.org/pes/mini-workshops

Communicating to engage

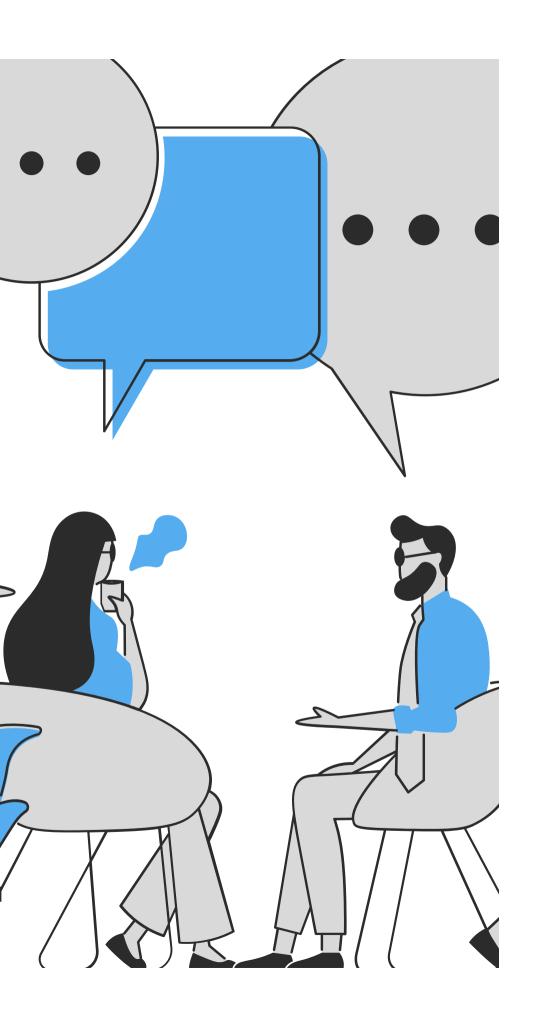


Adapted from Nancy Baron's Escape from the Ivory Tower 🛛 🔊 🗛 🗛 S Center for Public Engagement with Science & Technology

From: https://www.rri-tools.eu/-/the-aaas-communication-toolkit-communicating-to-engage

Bottom Line

So What? Supporting Details



Crafting strong messages (4 C's)

1.Concise

 Get to the core of your message using simple, easy-to-grasp words and short sentences

3. Connected

 Communicators are pretty good explaining their idea, why it matters to them, but not so good at explaining why it should matter to others

2. Concrete

• Use strong, concrete words one can visualize

4. Catchy

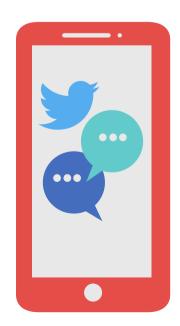
Repetable

What platform would you choose?



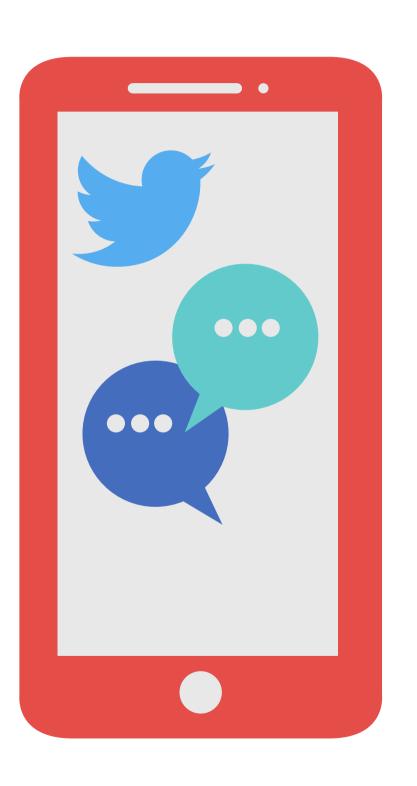








Social media_Twitter



Goal

Identify your goal.

Concise

Twitter message has to be 280 characters max but you can write longer posts as threads. Write it and revise before posting.

Use hashtags

To increase visibility and impact.

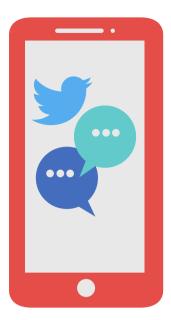
Time of post is important

Identify when is "prime time" in your country (in CA I post from 9am - 3pm). Keep consistency in topics and postings.

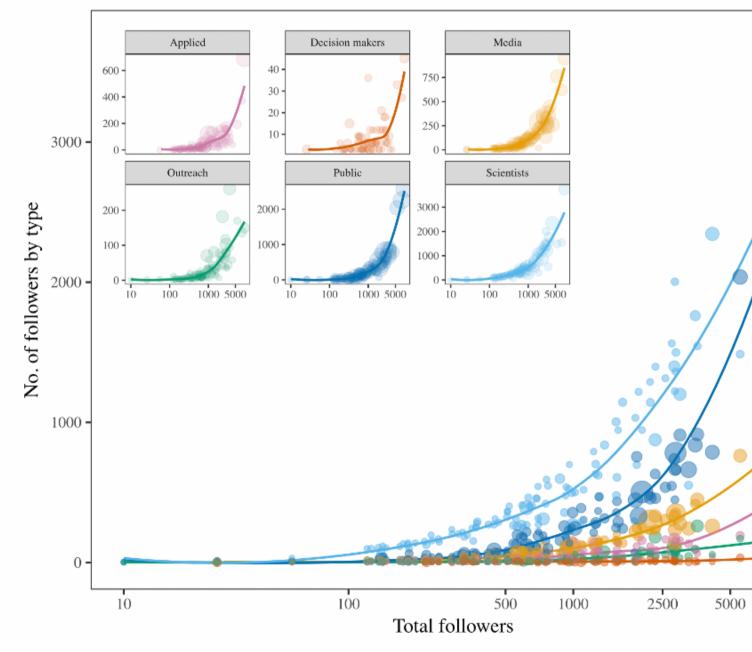
Follow, like and comment

Having followers is important for impact.

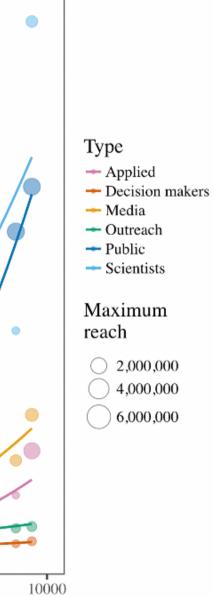
When getting started is good to see/identify what others do that works well.



Followers are important for impact?



Coté IM, Darling ES, FACETS, 2018.



Opportunities to get started

covid19sci.org

- Communications team
 - Blogs
 - Social media

Viral Feedback

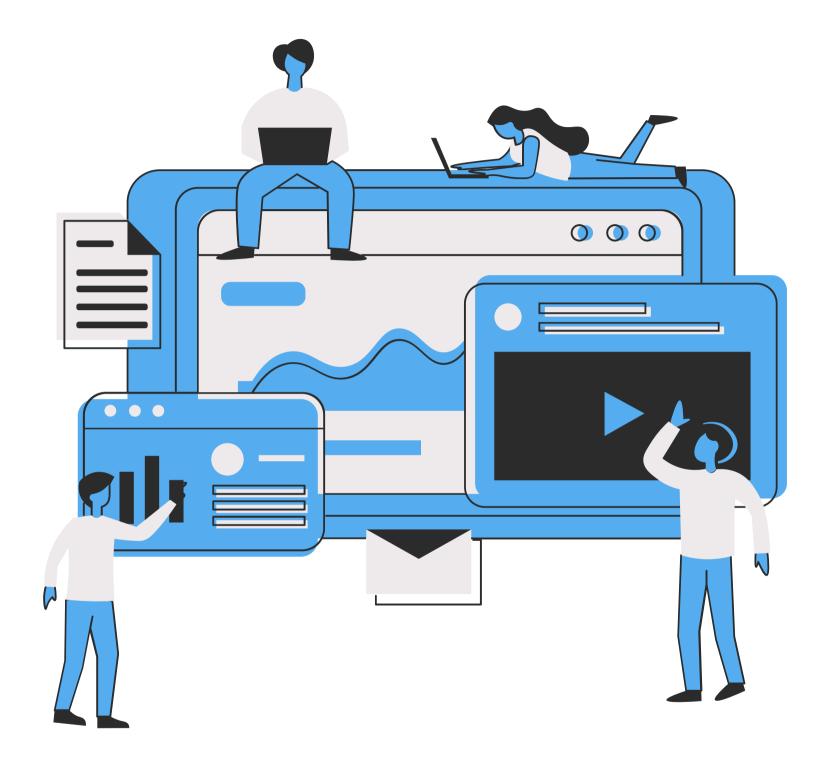
- https://viralfeedback.org/
- Fight COVID-19 misinformation

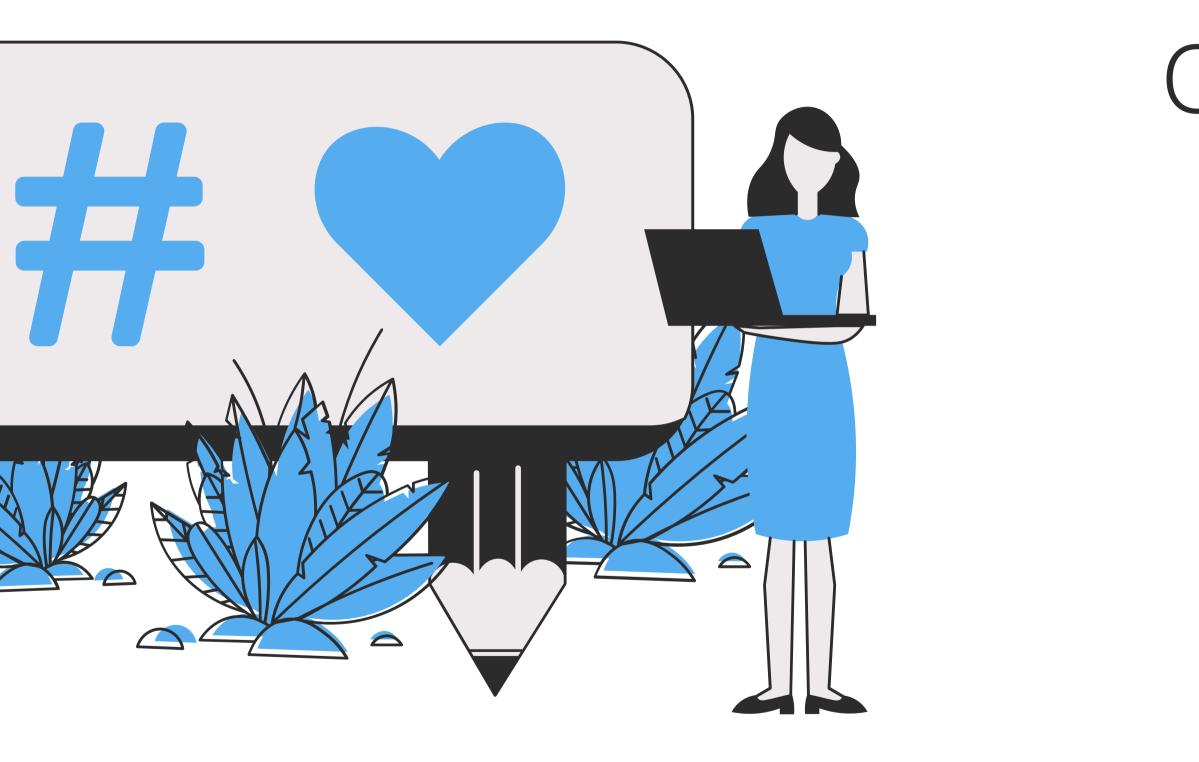
Science writing opportunities

- @Soapboxscience
- National Association of Science Writers
- @Massivesci
- Science/Science careers

Speaking

- Science Café
- Science Pubs
- Nerd Nite





Questions?

Email

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Twitter

@alexcr_1

Resources and references

- 1. https://www.aaas.org/resources/communication-toolkit
- 2. http://blogs.nature.com/naturejobs/2015/08/21/science-communication-know-youraudience/
- 3. https://blogs.plos.org/scicomm/2019/10/15/scicomm-at-school/
- 4. https://pubs.acs.org/doi/10.1021/acscentsci.9b01273? utm_source=twitter&utm_medium=social-mediaorganic&utm_campaign=solvingtogether&utm_content=100001098436498#.XhkKfA_ SX6I.twitter

Workshops

- 1. https://www.aldacenter.org/workshops
- 2. https://www.aaas.org/pes/mini-workshops

