# USING SOCIAL MEDIA EFFECTIVELY FOR RESEARCH COMMUNICATION



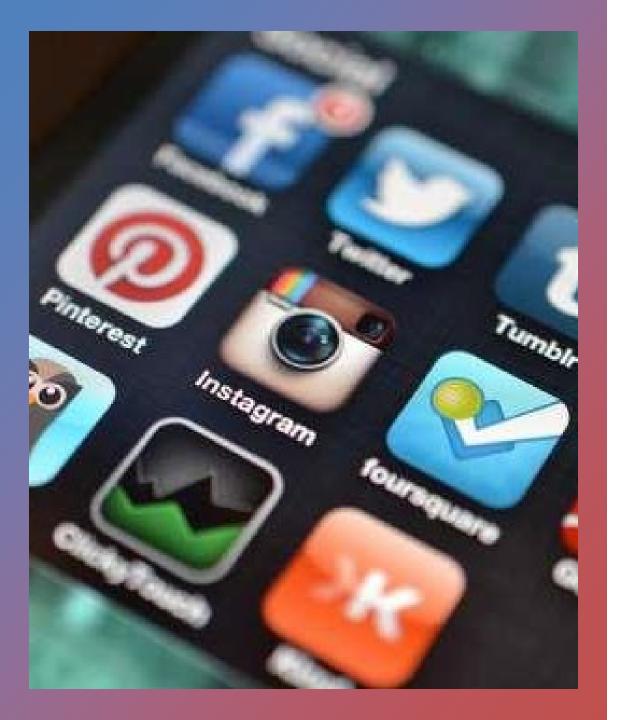
#### Dr. Jean O'Dwyer & Dr Valentina Rossi

# **OVERVIEW**

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- Introduction to social media- what it is, why it's important and why it is integral to research communication
- Creating and shaping your message- knowing your audience
- Social media platforms –.



# WHAT IS SOCIAL MEDIA?

- "Social media are Internet-based channels that allow users to opportunistically interact and selectively self-present, either in realtime or asynchronously, with both broad and narrow audiences who derive value from user-generated content and the perception of interaction with others."
  - Carr, C. T., & Hayes, R. A. (2015)

# SOCIAL MEDIA FOR RESEARCH COMMUNICATION – **WHY IS IT IMPORTANT?**

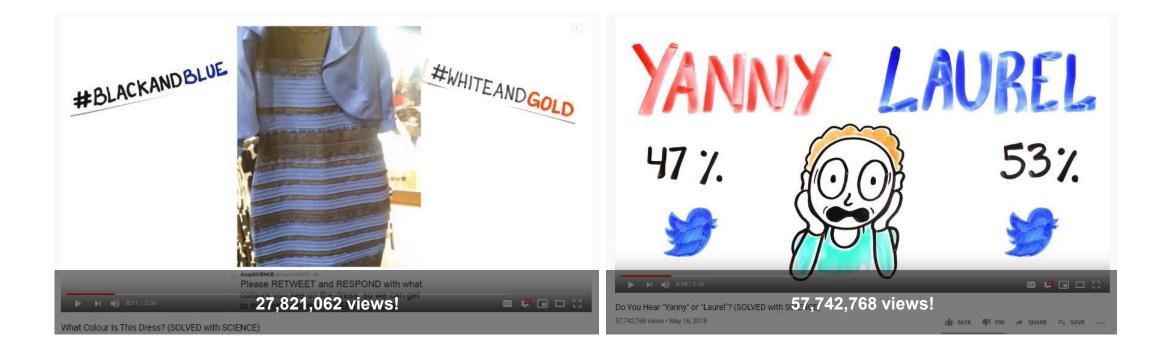
"Social media platforms ... are *the* way the world is networking and communicating. They are *how* and *where* we share information – with friends, colleagues, acquaintances and any and everyone else."

– Christie Wilcox, Scientist, Science Writer/Blogger

Researchers are increasingly using social media to talk about or read about research

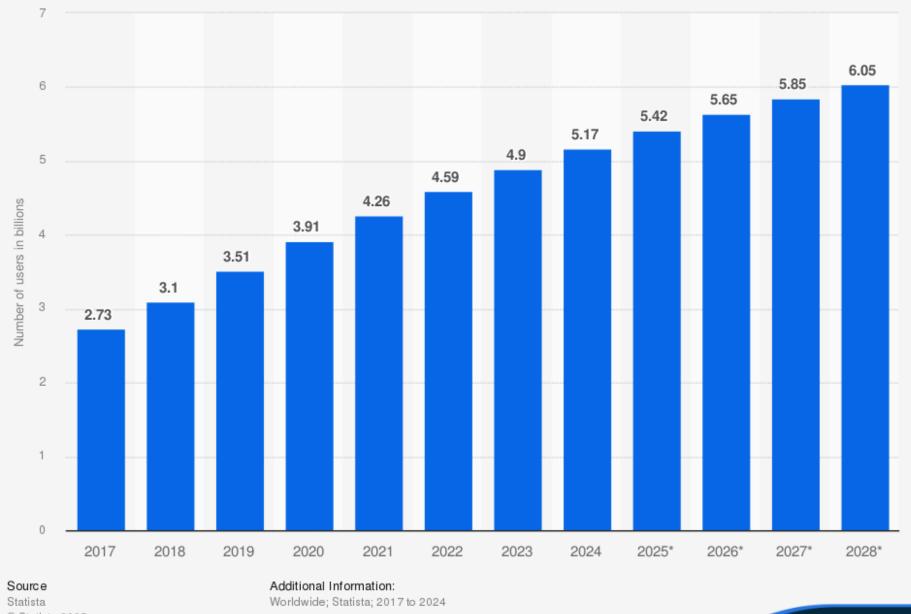
- 47% of AAAS members surveyed in 2018 have used social media to discuss or follow science
- 24% of AAAS members have blogged about science/research
- 16% of scientists blog at least once a month about topics related to their research; ~1 out of 5 tweet about their research (Brossard *et al.*, 2013).
- Younger scientists tend to strongly support direct communication with lay audiences (Corley *et al.*, 2011)

**Researchers themselves are now embracing roles that were conventionally taken upon by trained communicators.** 





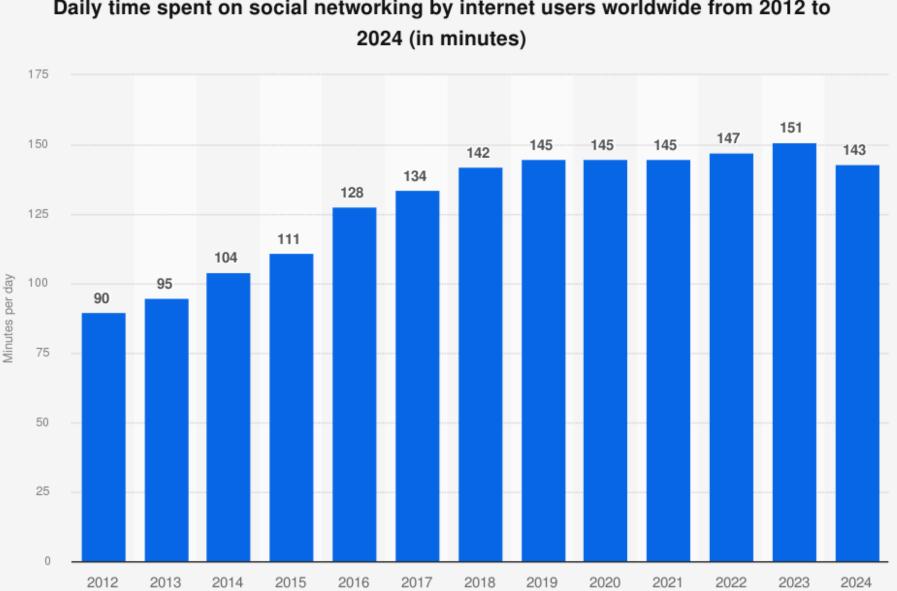
- The internet (and social media) has become a major source of information for many people, especially those who follow specific areas of interest and for younger people
- Social media use in general is on the rise



#### Number of social media users worldwide from 2017 to 2028 (in billions)

© Statista 2025

statista 🖍



### Daily time spent on social networking by internet users worldwide from 2012 to

#### Sources

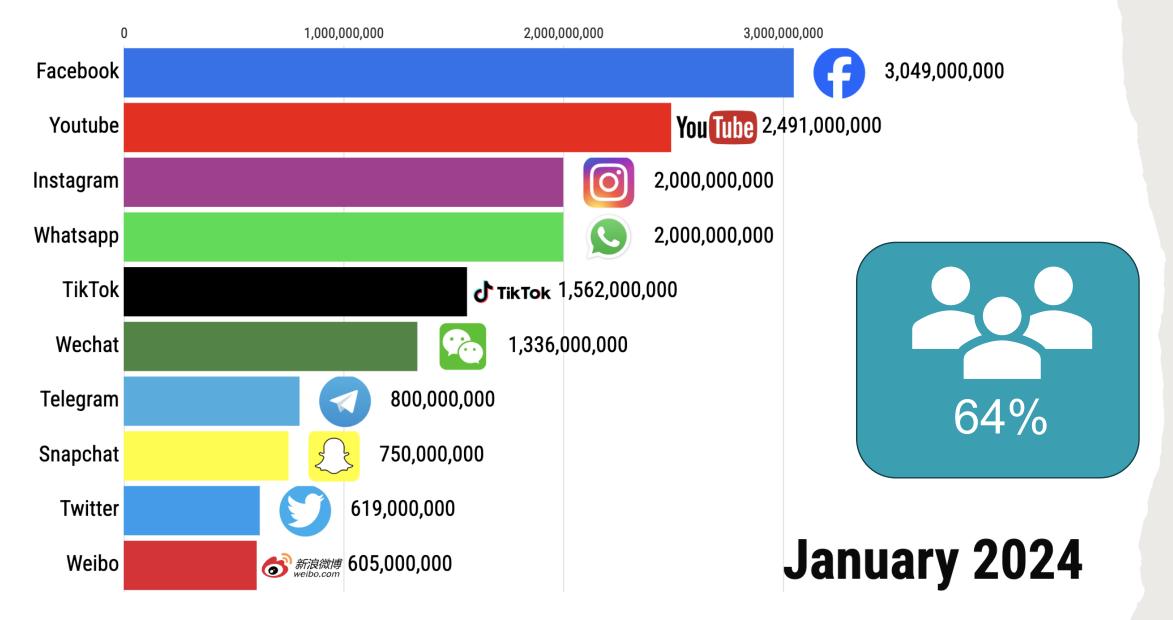
#### Additional Information:

GWI; We Are Social; DataReportal; Hootsuite © Statista 2025

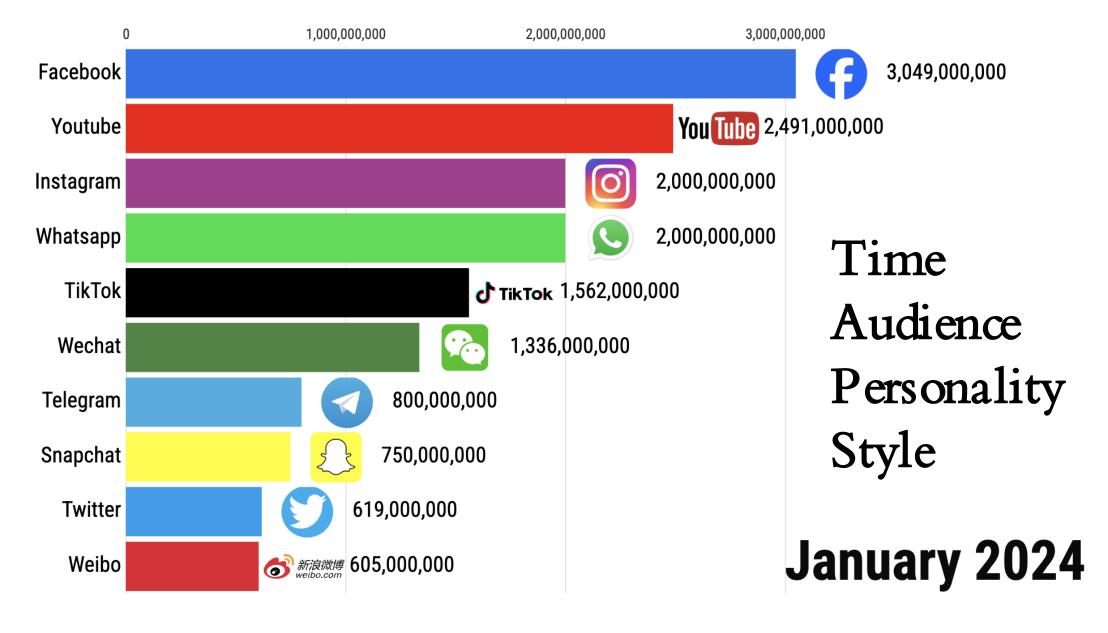
Worldwide; GWI; DataReportal; 2012 to 2024; 16-64 years; social media and messaging; Online survey



#### Most popular social media platform(s)?



#### The best social media platform(s)?



#### Social media platform(s) for Research Communication



You can reach out to older people Contrast disinformation

Longer videos to explain more complex concepts

Supports photos, videos (reels) and short stories It has a very positive and supportive vibe.

Some researchers and institutions might keep their profiles

Good to share new published research among other researchers. Good for finding jobs

#### Young audience

Young audience

E Bluesky

Live

streaming,

gaming

PRO

#### Social media platform(s) for Research Communication



The specific age range

**Time consuming**, require planning and preparation

Time consuming, **algorithm always changing** Planning and preparation

Controversial. Sometime very negative vibe, argumentative

Only professionals, no broad audience

#### Time consuming

#### Short timed content

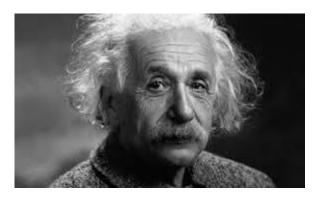


Bluesky

# SOCIAL MEDIA FOR RESEARCH COMMUNICATION – WHY SHOULD RESEARCHERS USE IT?

- Boost professional profiles
- Networking, recruiting students
- Reach new audiences
- Act as a public voice for research
- Make research accessible
- Online outreach can help get funding!
- Open research & collaboration

"Those that have the privilege to know, have the duty to act." - Albert Einstein.



# WHY SHOULD RESEARCHERS USE SOCIAL MEDIA?

- Studies show connections between public communication, increased visibility of research, and greater numbers of citations.
  - Do altmetrics work? Twitter and ten other social web services. PLoS One 2013 Building buzz: (Scientists) communicating science in new media environments. Journalism Mass Comm Quarterly 2014
- Researchers who engage in public communication tend to be more academically productive.
  - Scientists who engage with society perform better academically. Sci Public Policy 2008

# WHY SHOULD RESEARCHERS USE SOCIAL MEDIA?

# Altmetric



164	

#### Obout this Attention Score

MORE...

In the top 5% of all research outputs scored by Altmetric

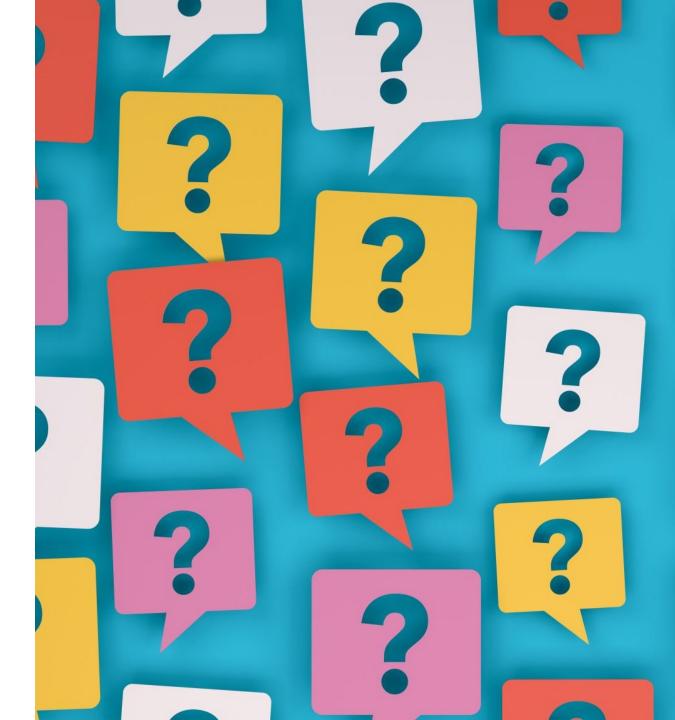
#### Mentioned by

18 news outlets2 blogs1 policy source10 X users

SUMMARY	News	Blogs	Policy documents	х	YouTube	More			
Title	Bacteria that Travel: The Quality of Aircraft Water								
Published in	International Journal of Environmental Research and Public Health, October 2015 View on publisher site								
DOI	10.3390/ijerph12111	10.3390/ijerph121113938 🔀							
Pubmed ID	26529000 🖸 🖂 Alert me about new mentions								
Authors	Harald Handschuh, Jean O' Dwyer, Catherine C. Adley								
			Attention o	over time					
						30			
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### COMMUNICATING RESEARCH- THINGS TO REMEMBER

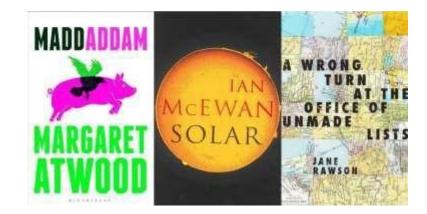
- Social media is SOCIAL. Twoway communication and engagement is key.
- Respond (sensibly).
- Social media is not a replacement for actual research output!



# WHAT GETS SHARED?

- **Public** can people SEE it?
- **Practical Value** *Is this useful information?*
- Stories Stories are fundamentally about social interaction and social interaction is central for human beings.

"Fiction is great – it can help us really feel the horror of what we're headed for, change our lives in a deeper way than scientific projections alone could do, and give us ideas to help us adapt to the change." – Jane Rawson



# **Telling A Story**

Think about a graphical abstract of your paper (or project), what is the story? What are you trying to do? Why it is important? Why should we care?

Tell YOUR story! Who are you, how did you get into university studies, why are you pursuing a PhD, what's your project about, were you always interested in doing science, what's your day like?

#### Collaborate with creative people!

Comics, illustrations, podcasts, live interviews

By communicating about your own journey you can inspire others to follow your steps, or empower them into pursue their dreams

Research communicators out there are always looking for full time scientists to engage in conversation Create a professional profile on a social media

# STORYTELLING



Curiosity Rover @ @MarsCuriosity

NASA's latest mission to explore the surface of Mars. Roving the Red Planet since Aug. 5, 2012 (PDT) (Aug 6 UTC).

Gale Crater, Mars

& mars.jpl.nasa.gov/msl/

Joined July 2008

M Tweet to Curiosity Rover

Curiosity Rover 🔗 @MarsCuriosity · Jan 30 Memories light the corners of my mind Misty infrared memories...

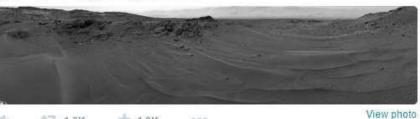
Your watch is over, @NASASpitzer. More than 16 years of data gathering is done, but your science lives on. go.nasa.gov/2vBoaKO

#### #SpitzerFinalVoyage



Curiosity Rover @MarsCuriosity - Apr 16

Fist pump! I passed the 10k mark on Mars. Next stop: Logan Pass: go.nasa.gov/1E73RII



1.2K
 1.9K



Curiosity Rover @MarsCuriosity - Jun 4 Spring break on MarsI Activities on hold during solar conjunction. Here's why: go.nasa.gov/1JoKUN2

#### youtu.be/TZw74PKoajU?li..

You Tube



Mars in a Minute: What Happens When the Sun Blocks our Signal?

How can you communicate with Mars spacecraft when the Sun is in the way? Learn more about "solar conjunction" in this 60-second video.

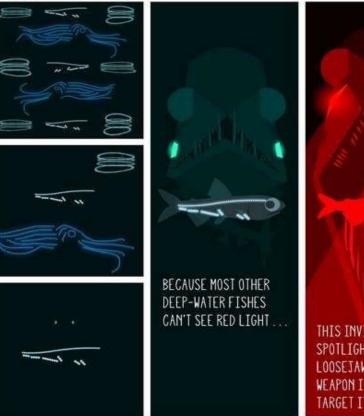
View on web

#### **BLOGGING DRIVEN BY VISUALS**

#### For Love or Supper: Why Critters Light Up

Breaking news: Hundreds of underwater species radiate neon greens, reds and oranges as they shimmy through the ocean's depths.<sup>1</sup> But sea creatures aren't the only animals at ease in the limelight. Buzz Hoot Roar guest-author Matt Shipman offers a few good reasons why sea *and* land animals put on the ultimate light show.

# 1. TO SPOTLIGHT THEIR NEXT MEAL. ONE OF THE ONLY FISH TO PRODUCE RED LIGHT, THE STOPLIGHT LOOSEJAW (MALACOSTEUS NIGER) EMITS A ROSY GLOW FROM ORGANS LOCATED NEAR ITS EYES.

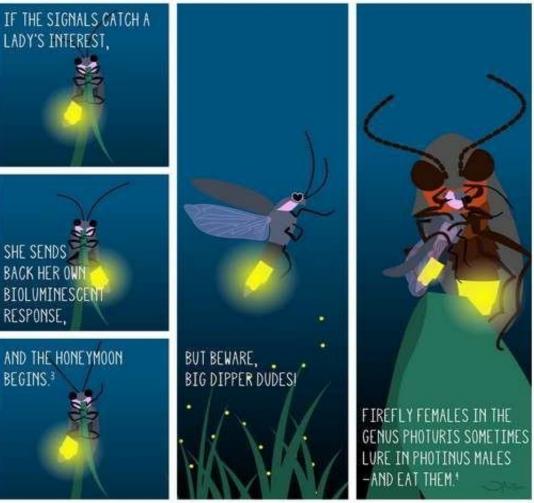




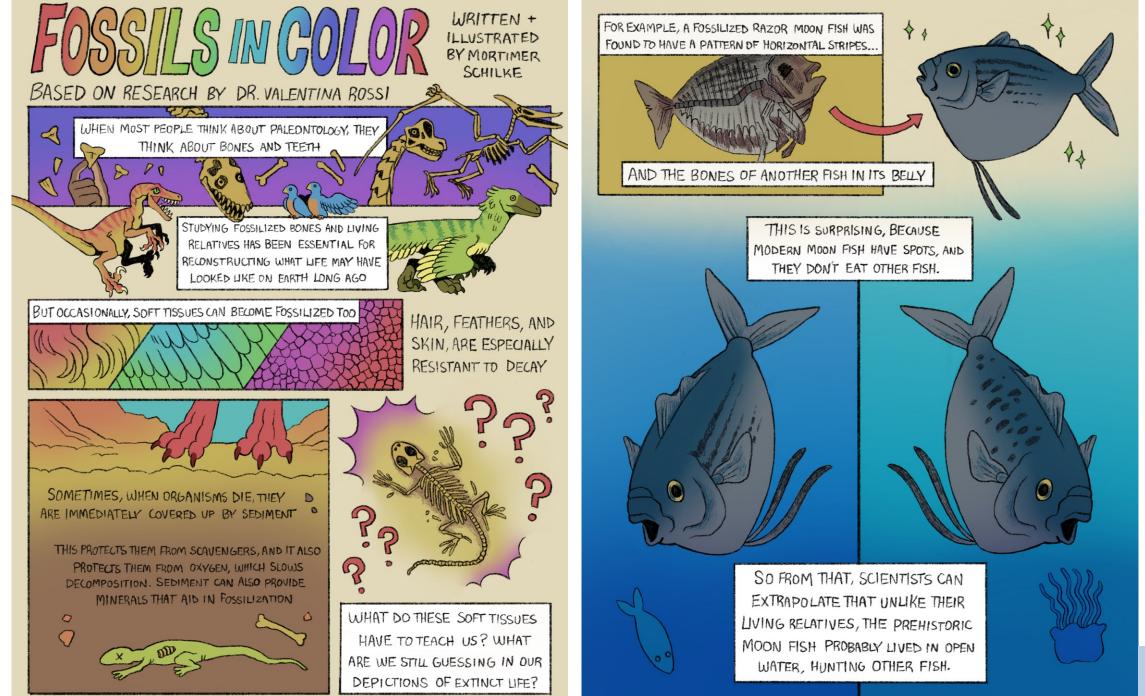
#### 2. TO WOO (OR TRAP) THEIR ONE TRUE LOVE. MALE BIG DIPPER FIREFLIES (PHOTINUS PYRALIS) USE THEIR LIGHT-UP BOTTOMS TO FLASH SIGNALS AT FEMALES.

**Click Me** 

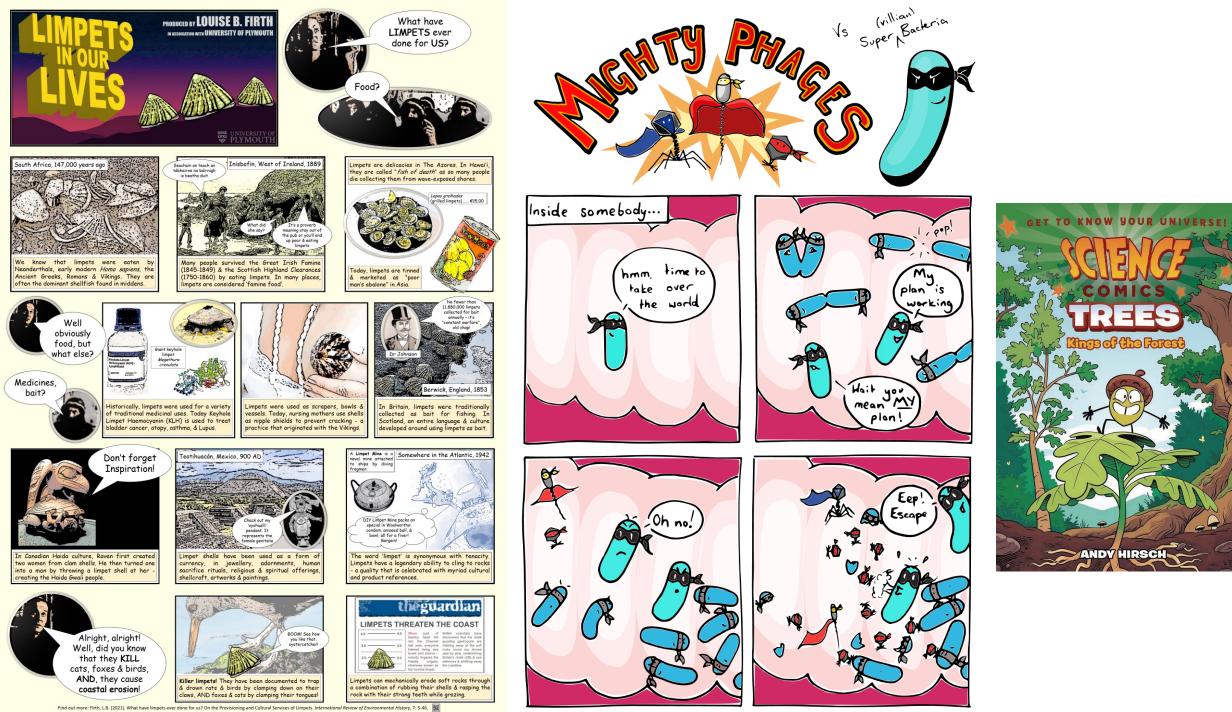
**Buzz Hoot Roar** 



THIS IS, OF COURSE, DOUBLY DISAPPOINTING FOR THE MALES.



@creppyfossil s @hudrewthis



## **RESEARCH COMMUNICATION WITH SOCIAL MEDIA 101**

#### Think about your Audience

- Don't assume all social media platforms are created equal in terms of audience
- Younger audiences? Snapchat, Instagram, TikTok...

Unlock hidden beauty in your science

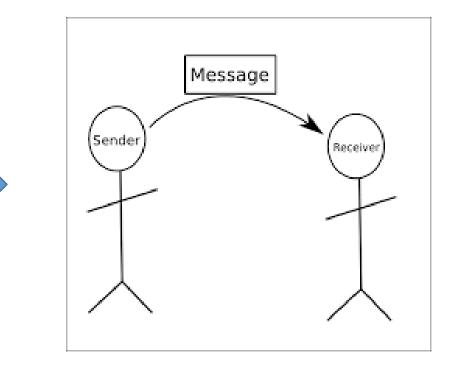
- Female audiences? Male audience?
- Journalists? X/Bluesky (largely a news source)...
- Other researchers? X, Facebook, Bluesky
- Wide audiences? Facebook, Twitter, Tumblr

71% of US Internet users are on Facebook. – Heidi Cohen

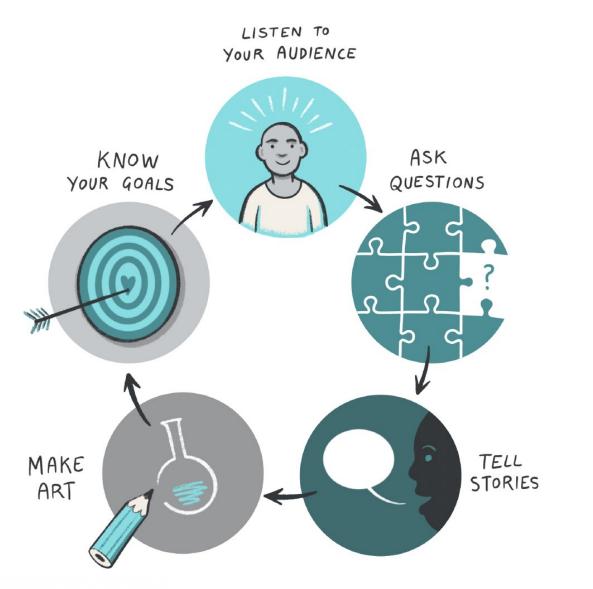


# THINK ABOUT YOUR GOALS

- What do you want out of your social media experience?
  - Increased citations for your papers?
  - Increased visibility of your research?
  - Outlet for opinions?
  - Collaboration?
  - Open data and sharing?
  - Translation of science for broad audience?
  - Engagement with key audiences?
  - Media coverage?
  - Recruiting?
  - Feedback?



### HOW TO COMMUNICATE ONLINE

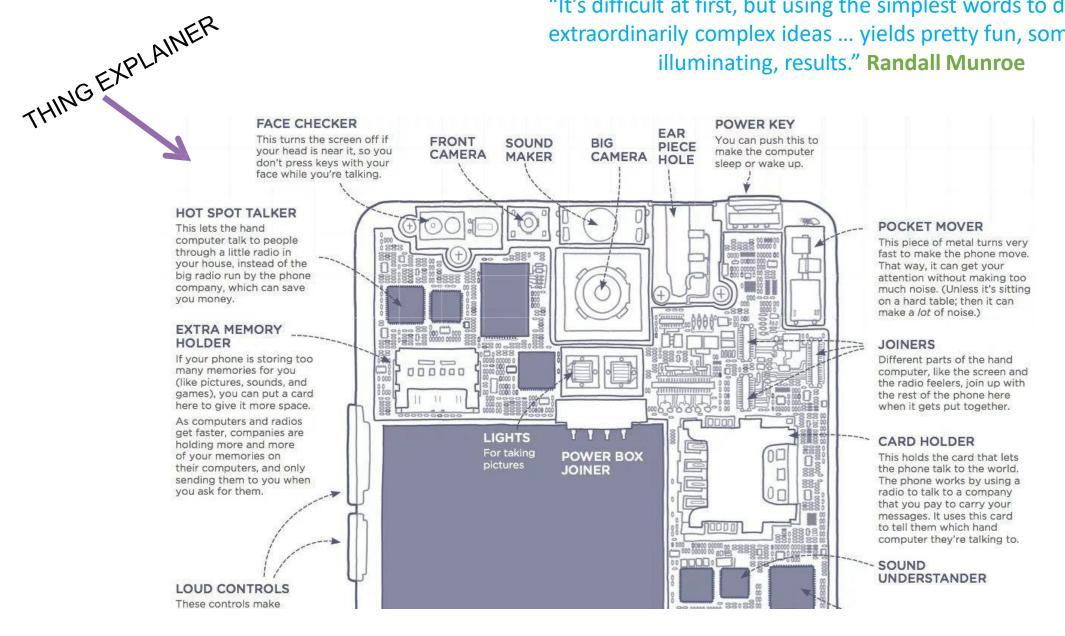


- Remember to engage!
- Ask questions to your followers (e.g., do you know X?, would you like to know more? etc...)
- Avoid posting (too much) about your personal life and focus on the science (have a professional profile)
- Avoid jargon!

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Term	Problem	Alternative		
Order of magnitude	<ul> <li>Technical</li> <li>Won't know what it means</li> </ul>	<ul> <li>good: "multiples of 10"</li> <li>better: "10/100/1,000 times more/less"</li> </ul>		
System	<ul> <li>Multiple meanings (model organism, mechanism, group of things, etc.)</li> <li>Technical</li> </ul>	<ul> <li>Describe the system <ul> <li>("mouse")</li> <li>"group of that works</li> <li>together to do"</li> </ul> </li> </ul>		
Elucidate	<ul> <li>\$100 word (i.e., bigger than necessary)</li> <li>Attitudinal barrier</li> </ul>	<ul> <li>"Discover," "find out,"</li> <li>"figure out"</li> </ul>		
Nano	<ul> <li>Technical</li> <li>Buzzword</li> <li>People feel like they should know it but don't</li> </ul>	<ul> <li>Remind of definition</li> <li>Avoid if unnecessary</li> <li>Use size scale comparisons</li> </ul>		
Breakthrough	- Sensationalizing	<ul> <li>Avoid it</li> <li>Be specific in describing the advance</li> </ul>		

"It's difficult at first, but using the simplest words to describe extraordinarily complex ideas ... yields pretty fun, sometimes illuminating, results." Randall Munroe



Can you explain your subject using the 1000 most commonly used words? Give it a go... <u>http://splasho.com/upgoer5/</u>



#### THE UP-GOER FIVE TEXT EDITOR

CAN YOU EXPLAIN A HARD IDEA USING ONLY THE TEN HUNDRED MOST USED WORDS? IT'S NOT VERY EASY. TYPE IN THE BOX TO TRY IT OUT.



INSPIRED BY XKCD. (THE IMAGE IS FROM <u>#386</u>.) CREATED BY <u>THEO SANDERSON</u>. HOW DOES IT <u>WORK</u>?

y Follow @theosanderson

### HOW TO COMMUNICATE ONLINE

#### What do you want to communicate?

A (new) piece of specific research, your research, your discovery, your published paper hot-from-the-press, introducing yourself

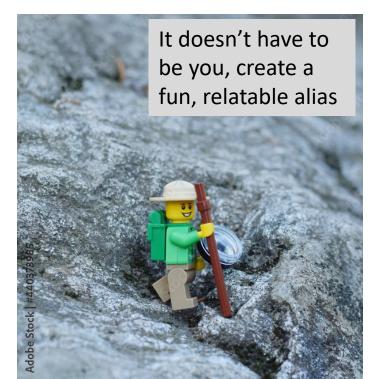
#### How much time do you have to create the **content**?

Photo(s), short video, edited video, sound with your voice, without sound, doodle/illustration

Your audience?

#hastags?

Which platform do you like or feel comfortable posting on it? This depends on the content and <u>your own</u> personality (!!)



#### HOW TO COMMUNICATE ONLINE

Select trendy music and good **hashtags**. If you type a hashtag it will tell you how many people have used it. Use only those that are related to your post. The algorithm knows!!

Tag your collaborators, funders, university and/or lab

A good **picture** speaks better than a 1000 words.

Design a short, informative and exciting caption to capture your audience. Remember <u>no jargon</u>!

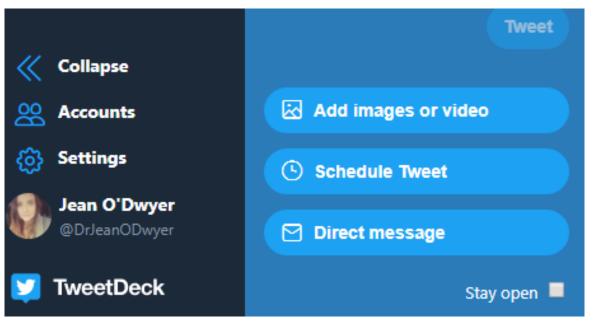
Follow and support other science communicators and scientists, we are community, and we should support each other!

# SOME TIPS AND TRICKS

SPACE SAVING: Link shortners are great to reduce the character count. Turn this: https://www.google.com/search?q=jdkfaj&rlz=1C1CHBD\_enIE768IE768&sxsrf=ALeKk01sI8E2o7I-VgzzWO\_N6-88xsIj3Q:1583885491499&source=Inms&tbm=isch&sa=X&ved=2ahUKEwj\_t9egkZHoAhX3QhUIHbLBAc8Q\_AUoAnoECAs QBA&biw=1242&bih=568

Into this: https://bit.ly/335bMPV

**TIME SAVING:** If you need to publish a series of tweets (over time) then you can use TweetDeck





# DOS AND DON'TS

**DO:** Ensure you have an appropriate handle (e.g. @Firstname.Lastname or @nameUCC etc.)

**DON'T:** Use the automatic handle or you'll end up as @JohnSmiths13243134834534

**DO:** Ensure you're tagging the correct page, e.g. School of BEES, UCC



DON'T: Post without reading and re-reading and re-reading again. You <u>cannot</u> edit in some applications

**DO:** Use a photo where possible so you can tag people

**DON'T:** Mix 'personal' social media with 'professional' social media. Recipe for disaster.

**DO:** Utilise hashtags- increases visibility and organising tweets.

# FINAL THOUGHTS: BE ACCURATE AND ETHICAL

- You CAN maintain research accuracy and rigor in your blog posts and social media posts.
  - Link to original research studies
  - Remember proper attribution to <u>pictures</u>, statistics, quotes, etc.
  - Learn to be concise but avoid buzzwords that can be misleading ("cure" "breakthrough")
- Be very aware of how your communication of reserach in social media might be interpreted by others.
- Researchers often occupy positions of power that must be acknowledged and used responsibly.
- Public trust in research remains high <u>let's keep it that way.</u>



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