Developing Creative Methods of Science Communication in a Modern World

MOVIN' RIGHT ALONG

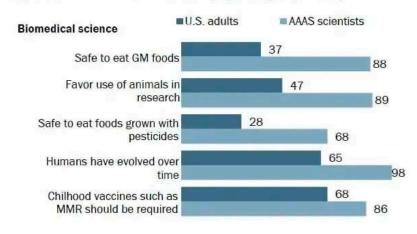
Charity Southworth

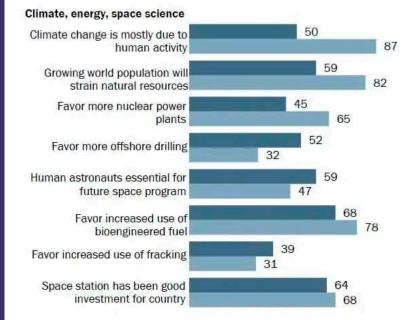
Science Literacy in the U.S.

- Test lower in academics than many first world countries
- Focus on Adults
- Science Literacy > Critical Thinking Skills
- Science literacy is immensely dependent on demographic

Opinion Differences Between Public and Scientists

% of U.S. adults and AAAS scientists saying each of the following



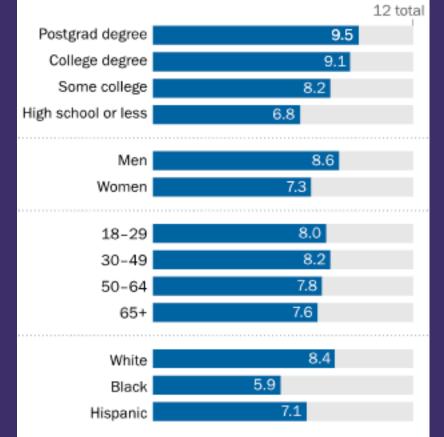


Survey of U.S. adults August 15-25, 2014. AAAS scientists survey Sept. 11-Oct. 13, 2014. Other responses and those saying don't know or giving no answer are not shown.

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Science Knowledge Varies by Education and Demographic Factors

Mean number of correct answers



American Trends Panel (wave 6). Survey of U.S. adults conducted Aug. 11-Sept. 3, 2014. All questions are multiple-choice; for full wording see survey topline. Whites and blacks include only non-Hispanics; Hispanics are of any race.

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My Background



Current State of Science Communication

- Largely Text Based
 - NYT Science
 - Wired
 - Astronomy
 - National Geographic
 - Popular Mechanics
 - IFL Science
 - Science.com

Current Trends in Communication Amongst Young Adults (16-38)

- Largely Visual Based
 - Listicles (i.e. Buzzfeed)
 - Memes
 - Web Comics
 - Short Interviews
 - YouTube Channels
 - NowThis
 - Easily shared on social media
 - Short and digestible

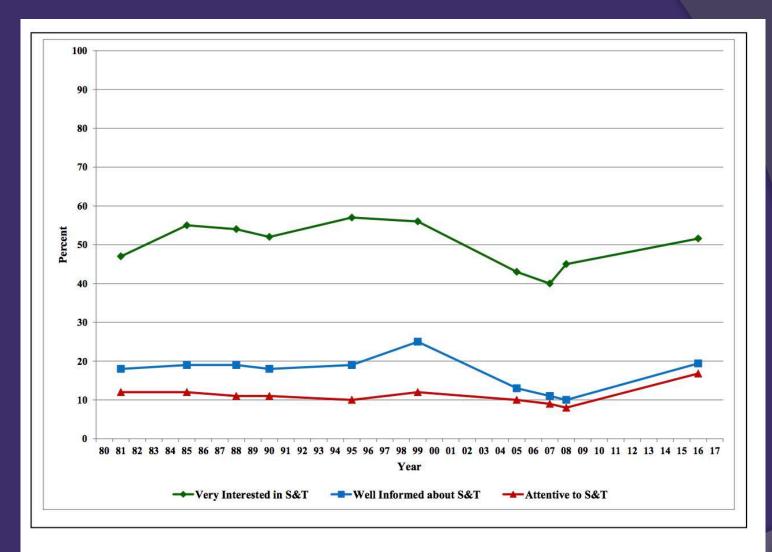
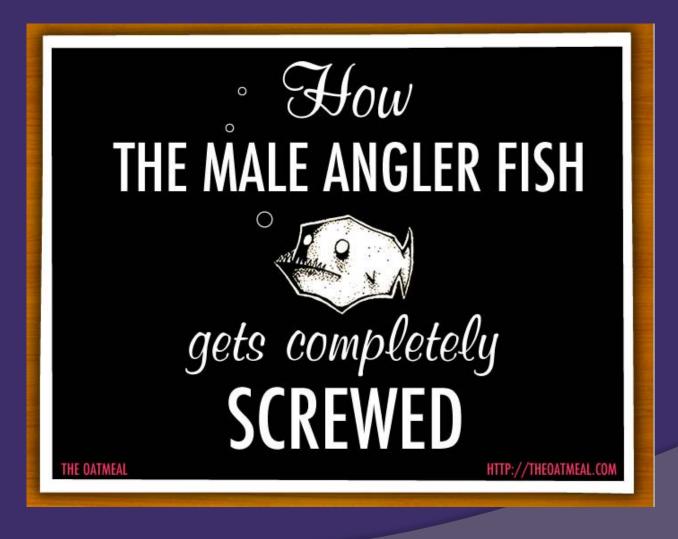


Figure 1: Interest in and Attentiveness to Science and Technology: 1981-2016.

2016 Report for NASA by University of Michigan

The Oatmeal



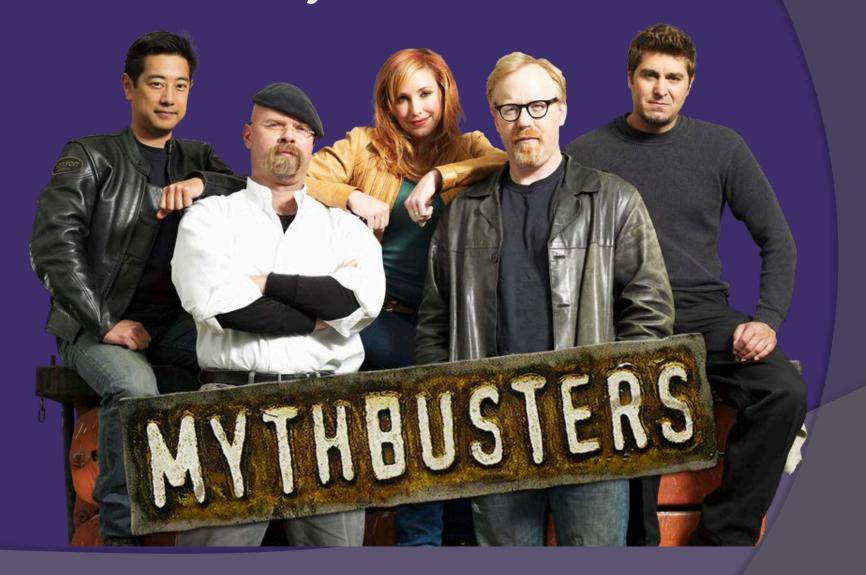
Drunk History



Adam Ruins Everything



Mythbusters



Who are the scientists "everyone" knows of?

- Neil deGrasse Tyson
- Ill Nye
- Michio Kaku
- Bill Gates
- In Brian Cox
- Elon Musk
- "That girl from the black hole"

Ideal Science Communicator

- Welcoming Nature
- Oiversity within Academia
- On't "talk down"
- Empathetic to lay persons' perspective
- Takes advantage of social media
- Important because they control knowledge, how it is shared and who it is shared with
- Free of elitist or classist bias*

My Journey in CCT

- Putting away my differences with academia
- Be The Change I want to see
- I have a unique perspective
- Weight of it all
- It is okay if learning is small

Oh, Hello Science

A scientist and her friend Science explore science concepts in their everyday, humorous life.

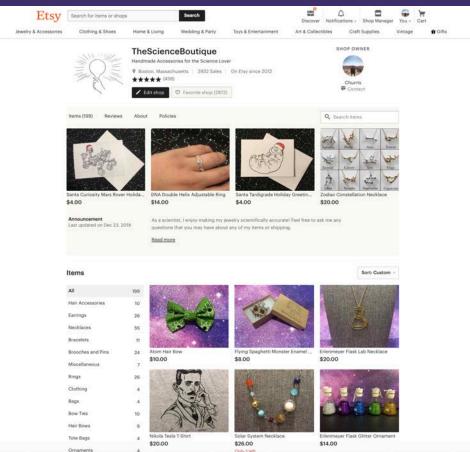


Science Ain't a Drag

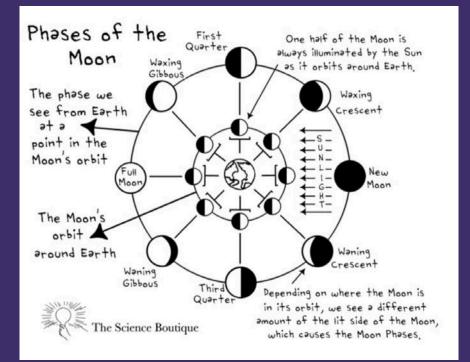
Drag personalities sit down with a scientist and talk science over bottomless mimosas.



The Science Boutique







The Science Boutique Schrödinger's Cat Double Ring



Erwin Schrödinger first proposed this



thought experiment in 1935. It is complicated, I will leave it at that. This double ring shows both a dead and alive cat and would look great with a Schrodinger's cat Necklace!





Web-Comics

The death of massive stars

Massive stars have a mass of 8 or more solar masses and expand to red supergiant stars towards the end of their lives.

Red supergiants are about

1,500 times the size of

our Sun on average.



Eventually gravity will cause the star to quickly collapse!



Type 12 Supernovae

Type la supernovae occur in binary star systems. Binary stars orbit around a common center of mass.

More than half of the stars near our Sun are in binary systems!

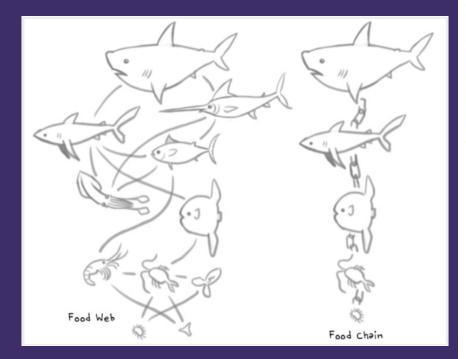


In order for a type la supernova to happen, one of the stars HAS to be a white dwarf - the remnant of a star like our Sun!

The white dwarf's companion star can be any type of star, even another white dwarf!









Parasites are definitely unwelcomed guests to their host.



"Outfit of the Day" Posts





STEGOSOUNUS "Roofed Lizord"

- 20-24 teet long, [Ofeettell
 Fossils found in North America
 Lived during the Jurassic period
 Herbivare
 Its spiked tail is called a thagomizer!
- The brain of a stegosaurus is the size of auglinut.



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By Alex Fox | May. 3, 2019 , 1:20 PM

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Shake-up at NIH: Term limits for important positions would open new opportunities for women minorities

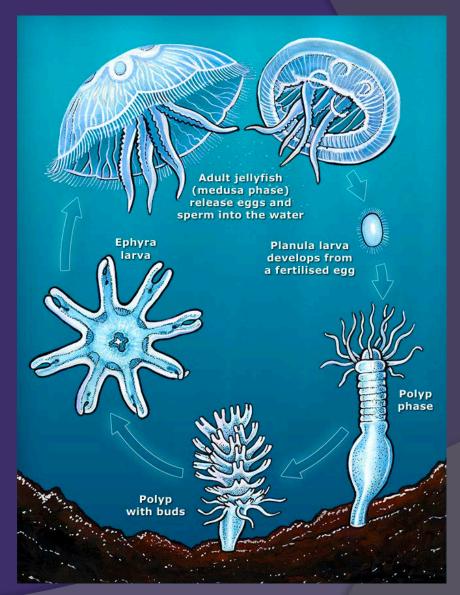




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True To Size <u>Find Your Fit</u>						
Availability: Select Styles for Availability						
Add to Bag					Save to	Wishlist
Description	Details			Size Chart		
Item No. 164470						

Your boundless knowledge pulls your trivia night team to first place, and in this navy blue dress from our ModCloth namesake label, you make the celebration look stylishly sweet! This tied-back A-line features a pintucked, buttoned front, flutter sleeves, and an exclusive, hand-drawn print of pink and purple jellyfish that have all eyes on you and your victory toast.







Slim-Fit Built-In Flex Printed Everyday Shirt for Men

\$16.00 - \$26.99	*****		
Hot Deal	4.8 (215)		
Color: Jellyfish			
\$26.99			
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Take-away

- Human connection allows people to hear information differently
- Couch science within humorous content
- When entertained, it isn't strenuous to learn new things
- Young adults want to know more science
- Take advantage of social media

Movin' Right Along



Questions & Comments