Making Your Research Matter: **Strategies for Outreach** and Public Engagement

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www.uh.edu/education/iamlab

Let's start by sharing!

Introductions: what is your current role?



Let's start by sharing!

- How do you share your research?
- What are you hoping to learn today?



Today's Plan

- My experience with outreach & dissemination
- Intro to science communication
- Career paths and science communication
- Equity-focused research design
- Strategies for communicating your science
- (Time permitting: Start working on a communication project)



My origin story





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My outreach and dissemination



ENGINEERING | OPINION

There Are Too Few Women in Computer Science and Engineering

It's not that they aren't interested; it's the culture of these fields and how they exclude women and girls

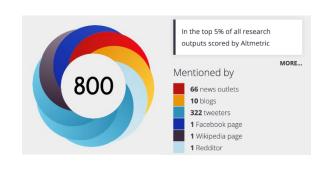
By Sapna Cheryan, Allison Master, Andrew Meltzoff on July 27, 2022

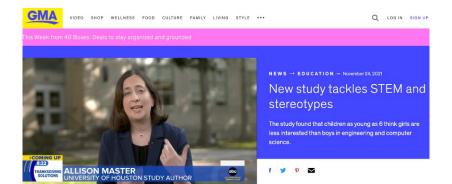
Data Parties!





Altmetrics

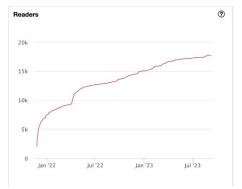






Stereotypes about girls dissuade many from careers in computer science

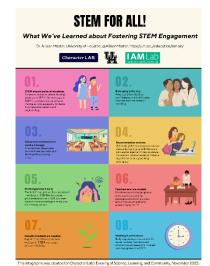
Published: November 24, 2021 8.41am EST







WeTeach_CS



My outreach and dissemination

Lab website **news** articles:

Lab website **resources**:





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My postdoctoral training in dissemination

https://modules.ilabs.uw.edu/outreach/



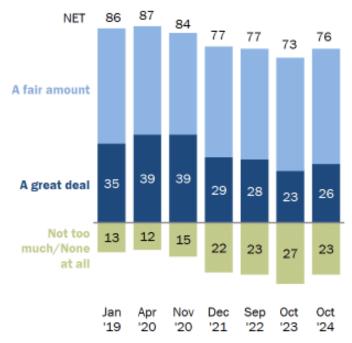






Confidence in scientists up slightly but remains lower than before pandemic

% of U.S. adults who have ___ of confidence in scientists to act in the best interests of the public

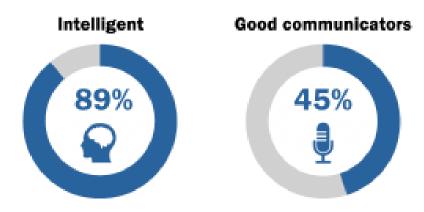


Note: Respondents who did not give an answer are not shown. Source: Survey of U.S. adults conducted Oct. 21-27, 2024. "Public Trust in Scientists and Views on Their Role in Policymaking"

PEW RESEARCH CENTER

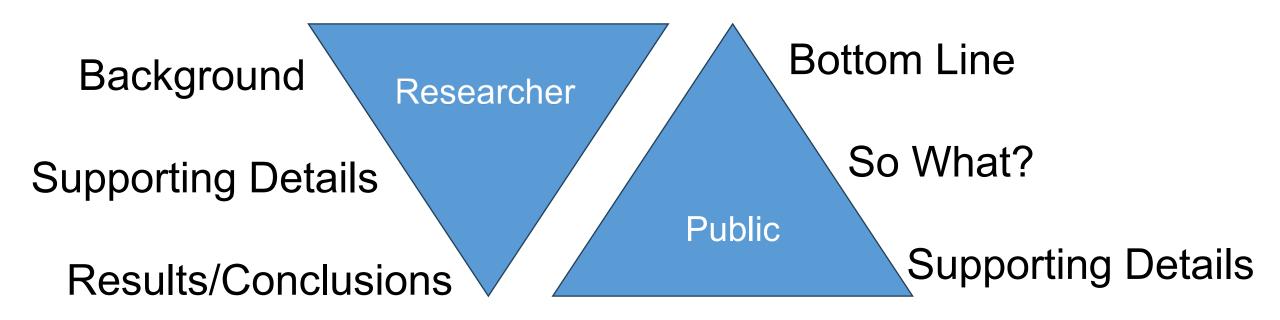
Most Americans see research scientists as intelligent, while fewer say they're good communicators

% of U.S. adults who say each of the following statements describes most research scientists well



Note: Respondents who gave other responses or did not give an answer are not shown. Refer to the topline for full list of traits. Source: Survey of U.S. adults conducted Oct. 21-27, 2024. "Public Trust in Scientists and Views on Their Role in Policymaking"

PEW RESEARCH CENTER



- Why Should They Care? Start with the big picture before you get to your key points.
- Three-Point Structure: What are the three key points you want your audience to remember?

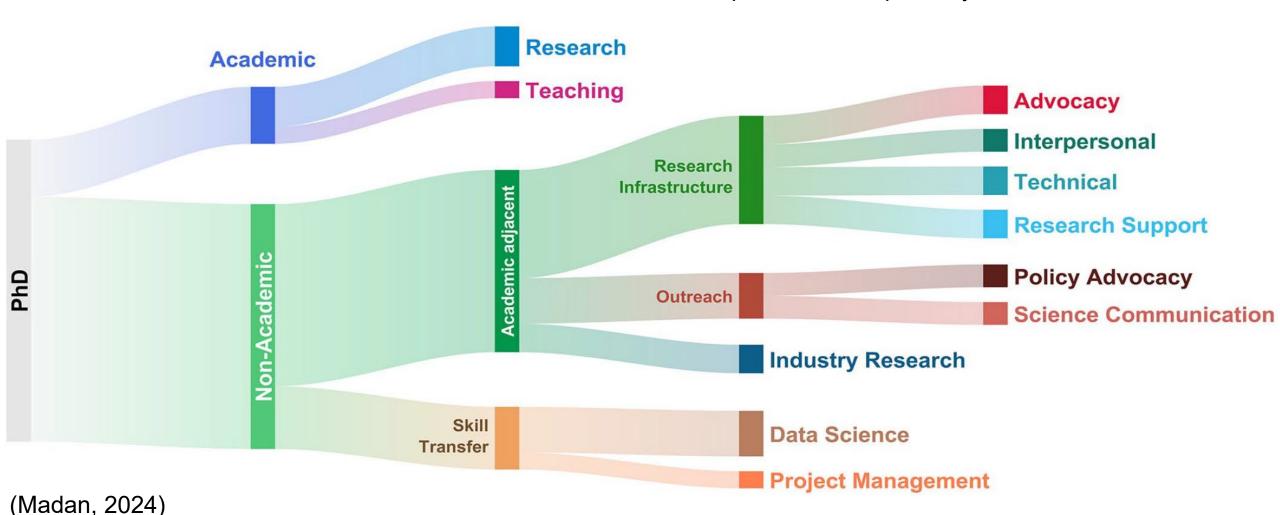
What is an idea you want to communicate to the public?

• In small groups, talk about what your big picture and three key points would be.



Career Paths and Why Communication Matters

What are your career goals? Where do you see yourself? How would science communication be important in that pathway?



Equity-Focused Research Design

What do you already do to support equity in your research?

Equity-Focused Research Design RESEARCH CYCLE

1. Who develops the idea?

start idea 6. Who hears about the findings and implications? share search 2. Whose knowledge is valued? results literature design interpret 5. How do we ensure interpretations are unbiased? 3. What do we measure and how? procedure results obtain data

4. Whose perspectives are included?

Equity-Focused Research Design

 In small groups, talk about how you could improve equity in your research for at least one of these steps



In small groups, talk about:

- Who is your audience?
- What do they already know?
- What do you want them to know?



Your Audience:

- General public: news articles; lab website; video modules on websites; op-eds; Psychology Today; the Conversation; social media (use hashtags)
- Teachers: infographics; short videos; workshops at practitioner conferences (ISTE, CSTA, etc.); social media (using hashtags to tag teacher orgs); data parties
- Parents: infographics; parent workshops (e.g., The Parent Venture)
- **Kids**: Science Journal for Kids; Ask-a-Scientist; booths at festivals and science museums

Ideas about gender and STEM start very young, but a study finds unexpected caveats.

By Rebecca Ruiz on December 10, 2024 f

Strategies for news articles:

- Connect with your media/press person at your university (they can help a LOT)
- Help them write a press release
- If a journalist reaches out, get back to them FAST
- Use simple, concrete language—how would you explain your research to your family?

EducationWeek.

Gender Stereotypes About Coding Ability Start as Young as 1st Grade, **Study Finds**



How Quickly Gender Stereotypes About Work Emerge

Adi Gaskell Former Contributor (1)

Many Kids, Teens Think Girls Don't Care About **Computer Science**



Strategies for op-eds:

- Check out theopedproject.org for resources and tips
- If you have funding, get psychgeistmedia.org to give feedback on your pitch
- Be persistent and emphasize anything timely for news cycles





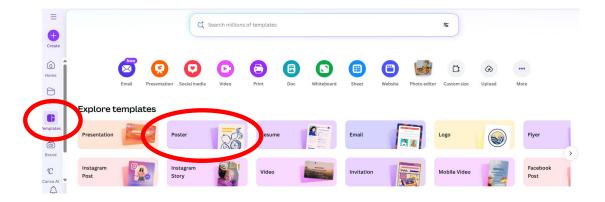
Let's Make Infographics!

Go to canva.com



• Make sure you are on the "Home" screen

- Under "Templates," select "Poster"
- Scroll until you find a template you like



• Spend 15 minutes putting in an outline of what you want to share

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Thank you!

• Email: amaster@uh.edu