# #cientifiques

Organitzen / Organised by











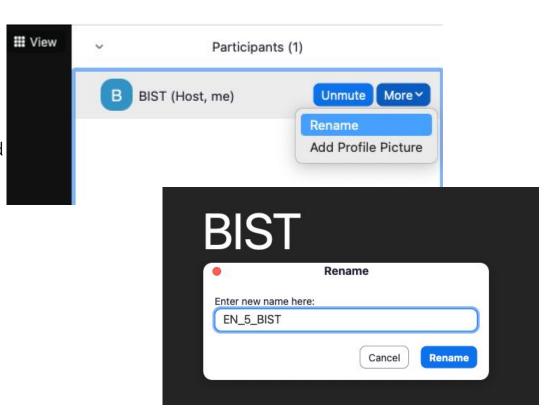
workshop to prepare the talk

January 2025

# Group work sessions

#### Change your ZOOM name to:

- Language
- Number of times I have participated in #cientifiques
- First name



# Objectives for the February 11 session

- Meet a scientist
- Discover your research
- Break stereotypes
- Sparkle curiosity



# Materials 2025

#### **Support materials for Scientists**







#### **PowerPoint Template**

This template model will help you prepare your presentation for your talk.



It is likely that photos and/or videos will be taken of you at the venue where you will give your talk.

Authorize the use of your image by filling out this document and uploading it in .PDF format to the registration form.

How to prepare your talk? .PPT of the 2024 training session

How to prepare your talk? Video of the 2022 training session

# Main messages

- You don't have to be special to do science
- Everyone can use scientific reasoning
- Science never ceases to amaze us



## We also want to...

- Show the diversity of the Catalan research ecosystem
- Visualize the research environment of the researchers



# Recommendations: timing

#### 1 hour in total

- Welcome + icebreaker questions
- 15-20 min personal presentation
- 20-25 min research/work presentation
- Last minutes: student's questions



# EXPLAINING OUR RESEARCH

## First of all...

#### Communication 101

- Core message → Your research / work
- Target audience → Teenagers

What will they find more interesting?

## You and your research

- What?
- Where?
- Who? With whom?
- When?
- How?
- Why?

What will they find more interesting?

## You and your research

- What?
- Where?
- Who? With whom?
- When?
- How?
- Why?

What will they find more interesting?

## You and your research

- What?
- Where?
- Who? With whom?
- When?
- How?
- Why?



What if I don't research? Explain your work!

Objective: To make visible all types of professions related to science.

What will they find more interesting?

### You and your research

- What?
- Where?
- Who? With whom?
- When?
- How?
- Why?

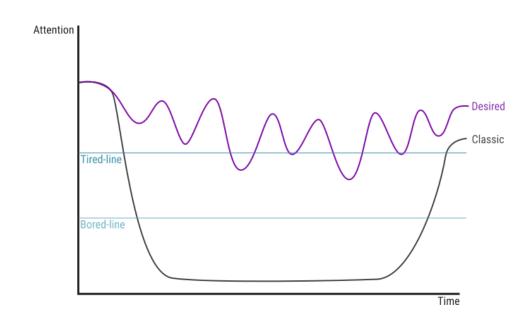
#### Hidden messages

What we say without noticing...

- Science and scientist's social perception
- Gender roles
- Language education
- Visual education
- ..

## Tools: Attention curve

- Presentation divided in recognizable parts with summaries at the end
- Surprise, comedy (You don't need a joke)
- Voice modulation



From *How to Give Successful Oral Presentations*.

«Tools»



## **Tools: Scissors**

#### Reduce to the essence

- What is really the main message?
- What do they need in order to understand it?

Put yourself in your audience's shoes





Microwaves
explained in
9.9999 seconds

## Tools: Stories and emotions

Is there a personal story about how we ended up in this research?

Is it possible to make an emotional bond with our audience?

#### Tell a story, don't list facts

Can you structure the talk as a story?







# Tools: What they know

#### Previous knowledge

- Theoretical (Curricula)
- Real

They are not a tabula rasa



Enseñando ciencia con ciencia - FECYT - Lilly

# **Tools: Participation**

- Ask questions
- Ask for opinion
- Small quiz
- Small experiment
- Online tools (quizizz, kahoot)

How to manage it (talk to the teacher):

- Raise your hands
- Give the floor



# Tools: Language

#### Adapt your language

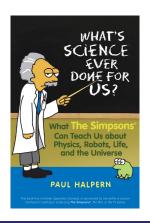
- Don't underestimate them
- Don't overestimate them.
- Use less tables and graphs (or none at all)
- Mind the slang! Reduce the «sciency-words»

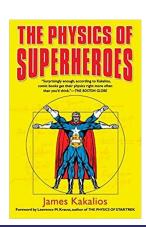


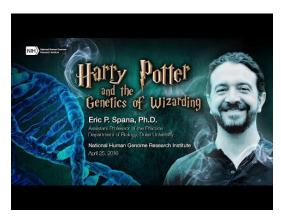
## **Tools: Relations**

Can I relate my research with...

- Their everyday reality?
- Some well-known applications?
- Pop references? Mind the trends!
- Art / Beauty







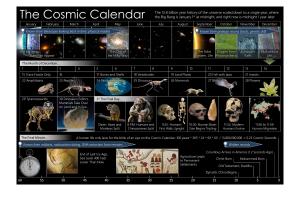


# Comparisons and metaphors

Analyze them well before using them

Robust comparisons

Don't stretch them







# Tools: Surprise

- Comedy
- Voice modulation / enthusiasm
- Body language
- Participation
- Resources in your presentation



## **GROUP WORKSHOPS**

# Tell me about your research

Make a **4-5-minute** summary of what you will explain on the 11th at the educational centre.

- What is your research about (in a couple of sentences)
- What will you explain to the students: how will you introduce the research topic, etc
- Science communication tools (<u>see</u> tools) you will use
- Possible dynamics for interacting with students
- A (very short!!) look at the presentation you will be using



## What do the others do?

- Write down what you found more interesting about the presentation.
  - What is the main message/s?
  - Has she used any of the tools to communicate science?
- Come up with ideas to suggest to your colleague





# Tools

Attention curve	Stories	Previous knowledge	Participation	Language
Attention Souled Connect Conne	SILENT SPRING Rachel Carson		APAPAPAPA PA	Aa
Relationships	Similes and metaphors	Interdisciplina rity	Beauty	Surprise / Humor
WHAT'S SCIENCE EVER DOME FOR US? What The Simpsons Profess Robots, Uffice and the Universe.  PAUL HALPEN				

# Group work sessions

- What? (main message)
- Who? With whom?
- Why am I doing this research? Can I tell a story?
- How do I do research?
- What else do I do besides science?
- How can I break gender stereotypes with my talk?
- And the scientific stereotypes?

- Can I relate my research to its immediate reality?
- And with pop culture?
- And with other areas of knowledge? Art?
- Can I use a metaphor?
- How can I surprise them?
- Is there beauty in my search?