

ELEC-E7861

Lecture 12: Scientific Presentation

2021

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Schedule

Jan 14: Introduction

Jan 21: Computational modeling

Jan 28: Analytical methods

Feb 4: User research

Feb 11: Literature review

Feb 18: Research strategy

Feb 25: No meeting

Mar 4: Research planning

Mar 11: Guest lecture

Mar 18: Modeling clinic

Mar 25: No meeting

Apr 1: Modeling clinic

April 8: Scientific writing

Apr 15: Scientific presentation

Independent study period

Apr 29: Optional support session ←

May 14: Submission of paper (PDF)

May 15: Dress rehearsal

May 16: Final presentations

Status with research

I'll open an optional poll to report and solve issues you are facing

Assignment 11 feedback

Five tasks:

1. Add one RESULTS figure or table. Focus on how it communicates your main result or finding. If you do not have results yet, which is fine, you can DRAW a results figure, imagining what the results figure could look like. Pay attention to clear labels etc.
2. Add a CONTRIBUTION STATEMENT to the end of your Introduction. "This paper contributes..." If you have multiple contributions, put them in a bullet list. Pay attention to correctly understanding what a contribution statement is (new piece of knowledge / new capability) and finding the right level of abstraction.
3. Add Figure 1 (aka. the teaser image). See lecture slides for an example. Insert it on page 1 or page 2. Use it to VISUALLY communicate the problem, the outcome, or the approach, or any combination thereof.
4. Do a pass to improve your headings, especially in the middle part of your text. Try to find the right level of abstraction. E.g., "Postprocessing" (too abstract) -> "Clustering" (better, but still unclear) -> "Clustering of movement data" (better)...
5. Write 2-3 sentences to Conclusion. (You may not have the main results yet, in which case you will have to speculate a bit. That's fine!) "The main takeaway of this work is that..." or "We conclude that...". Pay attention to: going beyond simply summarizing the result.

A11 binder

Scientific Presentations

Types of scientific presentations

Elevator science pitch: 30 s

Slush science pitch: 2 min

CHI Student Research Competition: 5 min

Workshop presentation: 5-10 min

Conference paper presentations: 12-17 min (in 2021: 5 mins)

Popular talks (E.g., TED): 10-15 min

University job talks: 30-45 min

Conference keynotes: 40-50 mins

Career talks: 80-120 min

***Important differences to keep in mind: (1) Talk objectives;
(2) Available presentation AV; (3) Audience***



BECAUSE SCIENCE IS COOL.



**Slush Science Pitching
finalists present:**

“A science pitch”

2 minutes

1 slide

“Think about four key topics: the problem, why it matters, potential solutions and the benefits of fixing it.”

Communication: Two minutes to impress

Roberta Kwok

Nature 494, 137-138 (2013) doi:10.1038/nj7435-137a

Published online 06 February 2013

This article was originally published in the journal *Nature*

With ruthless revision, researchers can compose a punchy 'elevator speech' to sell their science to a neighbour, potential employer or politician.

Subject terms: [Careers](#) • [Communication](#) • [Education](#)



F. MAKSYM/SHUTTERSTOCK

In a buzzing exhibition hall at the Moscone Center in San Francisco, California, cell biologist Cecilia Seixas steps in front of a video camera and prepares to sell her science in two minutes or less.

“Hi, my name is Cecilia,” says Seixas, a postdoc at the New University of Lisbon's Chronic Diseases

Research Center in Portugal. “I am studying how cells assemble an organelle, the cilium, that is like an antenna sticking out of the surface ...”

She explains that the cilium acts as a receptor for signals, often needs its parts replaced and can cause diseases when not functioning properly. “Really nice!” says John Fleischman, a science writer at the American Society for Cell Biology (ASCB) in Bethesda, Maryland, who is operating the camera. “And you were 10 seconds short.”

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Format for our presentation

Format 5+2 minutes

- A 5 minute presentation (or pre-recorded, narrated video)
- 2 minutes for Q&A

Other:

- Open to Aalto faculty and students
- Session is 1h 45 mins
- I moderate the session

CHI'21 presentation guidelines

<https://chi2021.acm.org/for-authors/presenting/papers/guide-to-a-successful-presentation>

See the "Dos and Don'ts" and "Good presentation" / "Bad presentation" examples

Q: What kind of impact do you want to have on audience?

Excite, raise interest and curiosity

Communicate the general aims of the work

Convince of validity those technically savvy folks

Communicate the main result and its importance

Expose limitations honestly but without undermining

Communicate the importance and practical value

Future work; invite others to work on this topic

Pitfalls from last years

Failure to communicate the main point (1-2 first slides)

Too much text / bullets; reading from slides

Excess technical detail

Lack of eye contact / contact with audience (*krhm*, Zoom)

Awkward delivery (e.g., memorization)

Confusing structure, disconnected slides

Failing to talk enough about the result

**Failure to communicate the argument in a logical order:
problem, method, related work, and main result, and its
importance**

Task: Comment this CHI'21 video

<https://www.youtube.com/watch?v=HINSvcnCRss&feature=youtu.be>

1. Breakout rooms (2 per each)
2. Watch the video: List good and bad aspects while you listen (5 mins)
3. Talk with your pair
4. Finalize a joint list (5 mins)
5. Paste your list to chat, let's discuss!

Final presentations (May 16)

5 minutes

Structure (suggestion)

- Practical problem
- Objectives
- Research problem
- Related work
- Approach / Method
- Results / Limitations
- Conclusion

FYI: CHI'20 videos (15 mins each)
<https://www.youtube.com/playlist?list=PLqhXYFYmZ-VctgnS59-jZt13-yC4DXvGm>

Assignment 12

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Peer review of revised paper draft

Upload PDF by Wed 21 March, peer review will follow

Use this as an opportunity to get feedback to your main ideas