Oral Communication: Giving Effective Oral Presentations



Outline

- 6 Purpose of an oral presentation
- 6 How to structure an oral presentation
- Giving good oral presentations

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Purpose of an oral presentation

Main goals: Same as written communication

- 6 Communicate the results of research, data analysis
- 6 Inform, convince
- 6 Instruction

Main principles: Same as written communication

- 6 Accessibility
- 6 Logical organization
- 6 Clarity
- 6 "Tell a story"

Purpose of an oral presentation

Only harder!

- 6 Time restriction
- 6 Attention span, concentration of audience
- 6 No chance to revise







Purpose of an oral presentation

Differences from a paper:

- 6 Audience does not have luxury of reading references beforehand (or stopping you while they read them!)
- 6 Audience wants to be informed about main points do they want to know more?
- 6 Interested audience members can get the full story from your paper later!

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How to structure an oral presentation

Abstract: Same as for journal articles

- A brief summary of the scope of what is to be presented, without details
- Should give potential audience enough information to determine whether the content is of interest

Required for:

- Presentations in academia, industry, and government, e.g. seminars, meetings with administration, public forum
- Presentations at statistical meetings will appear in the meeting program

How to structure an oral presentation

A basic "recipe:" For statistical research presentations

- 6 Abstract
- 6 Title slide
- 1. Outline
- 2. Motivating example
- 3. Statistical framework
- 4. Main results
- 5. Simulation results
- 6. Example, revisited
- 7. Discussion

How to structure an oral presentation

Title slide:

- 6 Short title, to the point
- Your name, affiliation, e-mail/web address
- 1. Outline: Road map
- 6 Tell your audience what to expect
- 6 Bullets, numbers

How to structure an oral presentation

2. Motivating example:

- 6 Puts the work to come in context
- 6 Defines the problem
- 6 Makes the problem accessible
- Warning give only relevant details, use only a subset of a large dataset to reduce complexity
- 6 Plots, graphs vs. tables of observations

How to structure an oral presentation

3. Statistical framework:

- 6 Necessary background but don't just quote papers
- 6 Set up formal models, notation
- As few symbols as possible! (Your audience will not be able to remember a lot of notation)
- Relate notation to motivating example

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How to structure an oral presentation

4. Main results:

- 6 Outline key steps; lead your audience through your reasoning
- But leave out technicalities, mathematical derivations; focus on the main points
- 6 No proofs, unless the point of your presentation is to demonstrate a proof
- 6 Highlight and interpret the important results

How to structure an oral presentation

- 5. Simulation results: If you show these
- 6 Avoid tables of zillions of numbers
- 6 Only show an "interesting" subset of all results you have
- 6 Highlight key columns, entries with color or special type to draw attention
- 6 Graphical display of results may be easier to digest

How to structure an oral presentation

6. Example, revisited:

- 6 Remind your audience of the objective of analysis
- 6 Pictures!
- Tables containing only most important results that make your point
- Explain what the results mean in terms of the subject matter

How to structure an oral presentation

7. Discussion:

- 6 Restate the purpose of your presentation
- 6 Review the key findings
- 6 Discuss aspects that need further study
- 6 Software, paper availability

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Giving good oral presentations

Similar to written work: But with some differences

- 6 Organization and logical flow!
- 6 Content and accessiblity
 - Keep things at a level your audience will be able to follow
 - Do not try to include everything you would in a paper

Giving good oral presentations

Delivery and clarity

- 6 Speak clearly, audibly
- Pace not too fast/slow, pause slightly after "hard" parts to allow audience chance to think
- 6 Repeat difficult points more than once





Giving good oral presentations

Visual aids (e.g. slides):

- 6 Large characters, visible from afar
- **Avoid cluttered slides**
- Avoid need to define excessive notation
- Sparse slides (e.g. containing just a key result or equation) may be most effective
- Lots of figures, plots!
- Use color or other highlighting to draw attention
- Go easy on cutesy special effects

Giving good oral presentations

Timing:

- 6 How much you present depends on how much time you've got
- 15 minute contributed talk at a statistical meeting
- 45-50 minute seminar
- Keep within the time limit!
- If you have to rush, you're trying to say too much!
- Practice!







Giving good oral presentations

Handouts:

- 6 Often a good idea (especially at preliminary oral, small research seminar, job interview)
- Can be distracting with a big crowds (paper rustling)
- Slides should be small but readable (e.g., 6-up) to minimize amount of paepr (and hence rustling)

Giving good oral presentations

Concluding remarks:

- 6 A good speaking style can be learned practice!
- Good visual aids are essential!
- Remember, you know more about the subject of your talk than your audience (so no need to be nervous)!