# MATH-GA.2840-004: Written and Oral Presentation

Lecture 1: Oral Presentations

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## **Examples of Oral Presentations**

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#### **Discussion Questions**

- 1. Give some examples of oral presentations
- 2. Differences and similarities among them?

## **Examples of Oral Presentations**

- Seminar talks
  - Length: 30 minutes to 1 hour
  - ▶ Audience: 10-30; graduate students, researchers in the field
  - Goal: Share new research work (in some detail)
- Conference talks
  - ► Length: 10 to 30 minutes
  - Audience: ??; graduate students, researchers, nonexperts
  - Goal: Share new research work, ...
- Teaching
  - Length: 50 to 110 minutes
  - ▶ Audience: 5-hundreds; undergraduates, graduate students, ...
  - Goal: Help students learn
- Elevator talks
  - ► Length: < 5 minutes
  - ► Audience: ??
  - ► Goal: Effectively communicate key ideas in a short amount of time

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To do this,

- Know your audience
- ▶ Be mindful of the goals of the presentation Adapt to the format, time/length, and other restrictions
- Less is more Choose a small number of key ideas to emphasize, mention them early and reiterate them.

## Today: Ingredients of a Good Oral Presentation

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#### Sample Talk

Dennis Wildfogel, How big is infinity?

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#### **Discussion Questions**

- 1. Who are the intended audience for this talk?
- 2. What were done well?
- 3. What could be done differently or improved?
- 4. Overall, is this a good talk? Why or why not?

# Basic Ingredients of a Good Oral Presentation

- Care
- Motivation & context

- A small number of key ideas
- Content that is communicated effectively

Summary/Take-home ideas

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- ► Care

  Be excited; engage with the audience
- Motivation & context

- A small number of key ideas
- Content that is communicated effectively

Summary/Take-home ideas

# Basic Ingredients of a Good Oral Presentation

- CareBe excited; engage with the audience
- Motivation & context Why should the audience care about your work/talk? Why are your results interesting/important?
- A small number of key ideas
- Content that is communicated effectively

Summary/Take-home ideas

## Example 2

A graduate student is to present 10-minute contributed talk at the Joint Math Meetings, in a session with loose theme. They are interviewing at JMM for teaching jobs.

Audience?

Goals?

Length/Format?

### Example 3

William Dwyer, Introduction to operads http://www.msri.org/workshops/685/schedules/17876

Audience?

Goals?

Length/Format?

#### Exercise: Elevator Talks

Prepare a 3-minute elevator talk for one of the scenarios below.

- 1. Topic: Your current research project
- Topic: What is [your favorite mathematical field/topic] ? (For example: What is "Linear Algebra" ?)

#### Audience:

- (a) An expert in your field
- (b) A researcher whose expertise is not in your field
- (c) A first-year graduate student in your dept.
- (d) An undergraduate student in a Calculus 1 class
- (e) Your neighbor