

# Pedagogical considerations for simulation-based inference in a large-enrollment introductory biostatistics course.

Matthew Beckman & Kari Lock Morgan  
Penn State University

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## Outline:

- ▶ (MB) Brief Course Description
- ▶ (MB) Pedagogical considerations
  - ▶ SBI
  - ▶ large enrollment
  - ▶ intersection of SBI & large enrollment
- ▶ (KLM) Compare/Contrast with other approaches (i.e. informal discussant)

## Brief Course Description

- ▶ 200-225 students enrolled each semester
- ▶ Lecture Mon & Fri with all students (50 min)
- ▶ Lab sections Wed with 70-80 students each (50 min)
- ▶ Question of the day (usually life science, sometimes PSU research)
- ▶ Final Project

# Pedagogical considerations

- ▶ SBI
  - ▶ building intuition
  - ▶ tangible machinery
  - ▶ revisit key concepts through both SBI & non-SBI
- ▶ large enrollment
  - ▶ crowd-sourced Q&A
  - ▶ Google sheets in lecture
  - ▶ text message inbox
  - ▶ clickers
- ▶ intersection of SBI & large enrollment
  - ▶ M&M simulation
  - ▶ StatKey during lecture

Compare/Contrast with other approaches (i.e. informal discussant)