

# Natural Hazards Engineering Research Infrastructure (NHERI)

## 2018 REU – Research Opportunities for Undergraduates

Methodology & Instrumentation

Summer 2018



# Announcements & Questions?



- Announcements
  - Career Development (Personal Statements) – Monday, July 16<sup>th</sup> @ 11am-1pm Central Time
  - Research meeting (Peer Review) – Tuesday, July 17<sup>th</sup>
- Deliverables
- OSU Travel – Courtyard Marriott Hotel



# Overview



- Discuss research progress, methods
- Research Paper: Methodology
  - Method (cite)
  - Changes to cited method
  - New method (explain)
  - Rational for new method/changes
- Review upcoming deadlines & events



# Materials Needed for Today



- Model paper
- Annotated bibliography/literature review



# REU Research Project Update



- Name & Research Site
- Mentor & Research Project Title
  - What was most challenging about writing the introduction to your research paper?
  - What methods are you using in your study? Be specific.
  - Are you using a known method for your research? A new method?
  - How is your methodology similar/different from others?



# Research Paper: Methods



- Read the (Materials and) Methodology section of your sample publication.
- Look for the following components in this section:
  - What are the **materials and/or methods** used in the study? If you wanted to repeat the study, would you be able to?
  - Are there **diagrams, tables, and/or images** explaining the methods used?
  - Are there any **results** used in the design of the study? How are they presented?
  - Are there **ethical considerations** or other measures taken by the researchers?



# Writing the Research Paper Methodology



- Create an outline of the (materials and) methods using the model paper

*For example:*

Materials

Methodology

XX Method (uses citation: \_\_\_\_)

Modified method by XX and XX.

Presents rationale for modifications using citations XX



# Writing the Research Paper Methodology

- Write your research paper (materials/instrumentation) methodology section draft following the outline you created.
  - Double-space, 1-inch margins, 12-point Times New Roman font
- In Moodle, submit both the outline created in class today and the draft of the (materials and) methodology as ONE Word document or pdf attachment.



# Deliverables



Due Monday, July 16, 2017:

- A draft of your (materials and) methodology:** Submit pdf or Word document to the Moodle site.
- Fill out evaluation:** Reflect on your weekly experiences. Fill out evaluation (I will send post to Moodle with this presentation).
- Timesheet:** Record all research activities from Monday (July 9)-Sunday (July 16).



# Questions?

Please feel free to contact me if you have any questions or concerns. We are here to help all REU students have the best summer research experience possible.

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