

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 16th @ 11am-1pm Central Time
 - Research meeting (Peer Review) – Tuesday, July 17th
- 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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