COURSE DAY 3: QUANT/QUAL RESEARCH, HW 2

Jack Hester, MPH CEPC 0904 Summer 2022

TYPES OF RESEARCH

QUALITATIVE VS QUANTITATIVE

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Differences in Approaches

QUALitative

- Questions: open-ended
- Hypothesis: generating
- Data: text or visual
- Data collection: flexible
- Analysis: describe meaning, contexts, relationships
- Inductive Process

QUANTitative

- Questions: closed response, forced
- Hypothesis: testing
- Data: numerical, nominal
- Data collection: standardized
- Analysis: quantify, statistical significance
- Deductive Process

DETERMINES METHODS AND INTERPRETATIONS OF RESULTS!

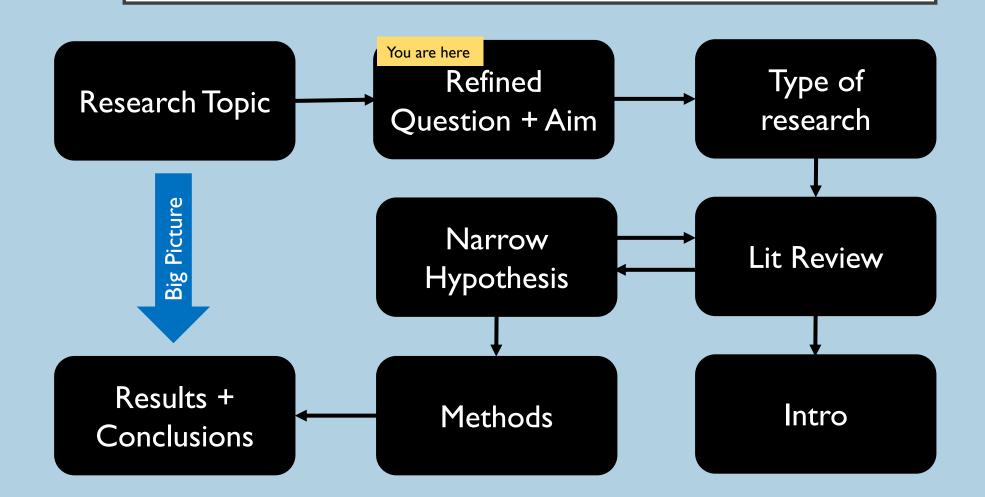
BENEFITS OF EACH

- Qualitative
 - In-depth
 - Identify reasons or themes (harder with just numbers)
 - Open-ended
- Quantitative
 - Numerical data
 - Sometimes more convincing/objective
 - Easier comparison with other studies

WHICH ONE?

- Sleep duration and job performance
- Experience living with hearing loss
- Radiation levels vs computational errors
- Understanding experiences with online learning
 - It depends... on what?
- Any you're curious about? Unclear on what kind of research?

RESEARCH PROJECT – BIG PICTURE



UPCOMING ASSIGNMENTS

- HW I: Finish grading by tomorrow
- HW 2: Due Sunday at midnight eastern

REMINDER: QUIZZES AND NOTES

- Quiz I due tonight (7/7) at midnight eastern!
- "One-pager" notes
 - Your own work
 - Summarize key definitions, steps, ideas, etc.
 - Something you'd understand 5 years from now
- Example: https://jackhester.com/teaching/one-pagers

QUIZ I

- I short answer
- 3 true/false
- 2 multiple choice
- I multiple answer
- I bonus on scientific method video

FUTURE CLASSES

QUIZ/OTHER QUESTIONS?

HW 2: WORK AND QUESTIONS!