Mixed Methods Research

Background

- Mixed Methods: qualitative and quantitative approaches are used in one study and are integrated by design
 - PROS: mitigate weakness of each approach, answer more complex questions
 - CONS: paradigmatic conflict, potential for losing balance
- quasi-mixed/multiple methods: both quantitative and qualitative data are present, but no mixing of data
- Mixed Methods ≠ Quasi-Mixed Methods!

Design

- timing: which comes first, qualitative or quantitative?
 - o concurrent: planned at the same time, not necessarily collected or analyzed at the same time
 - sequential: analysis of one stage informs the next stage
- **emphasis:** which is more important/dominant?
 - o capital letter indicate emphasis

		Timing	
		Concurrent	Sequential
Emphasis	Equal Status	QUAL+QUAN	$\mathrm{QUAL} o \mathrm{QUAN}$
			$\mathrm{QUAN} \to \mathrm{QUAL}$
	Dominant Status		$\mathrm{QUAL} o \mathrm{quan}$
		QUAL + quan	$\mathrm{quan} \to \mathrm{QUAL}$
		QUAN + qual	$\mathrm{QUAN} \to \mathrm{qual}$
			$qual \rightarrow QUAN$

Common Simple Designs:

Sequential explanatory

Sequential exploratory

QUAL → quan

Sequential transformative

Advocacy lens QUAN → qual Advocacy lens QUAL → quan

Concurrent triangulation

QUAN → qual

QUAN + QUAL results Concurrent nested

QUAN QUAL quan

Concurrent transformative

Advocacy lens
QUAN + QUAN
results

Advocacy lens
QUAN
QUAN
Qual

Advocacy lens
OUAL
quan

Survey Quality

In sequential exploratory designs, we often use interviews for the QUAL potion and a survey for the quan portion. This is often followed by a QUAN \rightarrow qual phase as well. When designed a survey, we need to consider the following: Validity

- face validity: does the item or scale appear (to experts) to measure the desired construct?
- content validity: does the scale measure the full range of relevant content?
- construct validity: does the scale measure only the intended theoretical construct?
- criterion validity: how well does the instrument measure the intended construct?

Reliability

- stability: same instrument yields same results form same respondent at different times
- equivalence: two different measures yield similar results from same respondents
- internal consistency: how well different, but related, items all measure the same thing

Quality Considerations

While we must consider the validity and reliability of the quant and qual strands, we look to **legitimation** to ensure quality of mixing.

<u>Legitimation</u>: a process of continuous evaluation of all mixed methods study procedures for consistency between the research purpose and resulting inferences

<u>Legitimation Types</u>₂: sample integration, inside-outside, weakness minimization, sequential, conversion, paradigmatic mixing, commensurability, multiple validities, political