Types of Research Validity

1. Measurement 2. External 3. Internal 4. Statistical Conclusion

Research Hypotheses

(and evidence required to support each)

- 1. attributive
 - a way to measure the behavior
 - how to discriminate it from related behaviors
- 2. associative
 - reliable statistical relationship
- 3. causal
 - temporal precedence (cause before effect)
 - reliable statistical relationship
 - no confounds/alternative causal explanations

Stages of Participant Sampling

- 1. Target Population
- 2. Sampling Frame (complete pop or purposive)
- Selected Sample (research selected or self-selected & simple or stratified)
- 4. Data sample (volunteerism & attrition)

Participant Sampling Decisions

(and choices)

- 1. Complete population or purposive sampling frame
- 2 Researcher selected or invited/self-selected
- 3 Simple or stratified

Types of Participant Assignment

- 1. RA of individuals by the researcher
- 2. RA of intact groups
- 3. Arbitrary
- 4. Administrative
- 5. Self-assignment
- 6. Non-assignment ("measured IV")

Kinds of Characteristics/Behaviors/Procedures			
	Variable	Constant	
Measured/ Subject			
Manipulated/ Procedural			

Research Design

Which participants do what when?

Causal	Between groups	Within-groups
Interpretability		
T	BG True Exp.	WG True Exp.
True Exp.	DO 11 - E	WO N - 5
Non Exp.	BG Non Exp.	WG Non Exp.

Data Collection

- 1. Collection observation, self-report or trace
- 2. Setting -- laboratory, structured setting, or field
- 3. Data source primary or archival

Internal Validity

(components and type of variables involved)

- 1.Initial Equivalence (measured/subject vars)
- 2. Ongoing Equivalence (manipulated/procedural vars)

External Validity

(components and type of variables involved)

- 1 Population (measured/subject)
- 2 Setting (manipulated/procedural vars) 3 Task/Stimulus (manipulated/procedural vars)
- 4. Societal/Temporal

Role of each Characteristics/Behaviors/Procedures

- 1. Causal/Independent variable
- 2. Effect/Dependent variable
- 3. confound subject var confound procedural var

control subject var control procedural var

subject constant procedural constant