## **Lecture 9: Conducting studies**

Monday, September 25, 2023

Your Teaching Fellows:

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Lectures: MWF 12:00 PM - 1:00 PM (003); 1:00 PM - 2:00 PM (004); 2:00 PM - 3:00 PM (010)

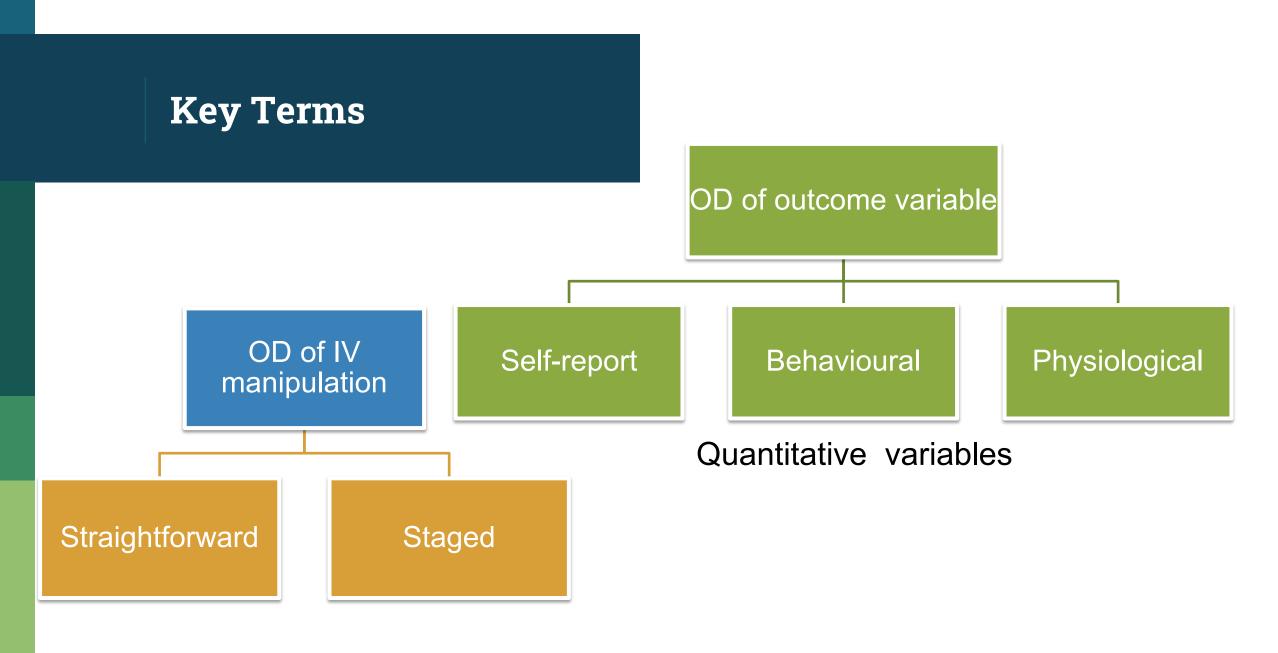
Office hours: Tuesdays 2:00 PM - 4:00 PM

#### **Review session**

- October 5, 4:30-6:00, Zoom
- Lab this Friday check your lab group, go to your lab room

### Learning objectives

- By the end of next class, you should be able to
  - Discuss different types of IVs and DVs commonly used in research
  - Create different types of DVs to evaluate a claim
  - Understand the different types of between- and within-subjects designs
  - Understand the advantages and disadvantages associated with within-subjects designs
  - Manage disadvantages of within-subjects designs
  - Describe the relationship between strength of IV/sensitivity of DV and experimental designs



### Manipulating the IV: Straightforward Manipulation

- Simple and easy
- Present participants with something that will influence DV
- Examples:
  - □ Music → Mood
  - Movies → Heart rate

### Manipulating the IV: Staged Manipulation

- Try to indirectly elicit a state
- Make participants feel like they're in the situation

- Example:
  - Using confederates to make participants feel excluded
  - Diffusion of responsibility studies

## Which one should you use?

#### Straightforward manipulations

PRO: Simple, easy

PRO: Very common

CON: Can be too artificial

CON: Demand characteristics

#### Staged manipulations

PRO: Better simulation

 PRO: Can avoid demand characteristics

CON: May arouse suspicious

 CON: Can be difficult to proceed as planned

# How to tell if manipulation worked?

 Manipulation check: a method by which researchers can quantify the effectiveness of a manipulation

## Condition





Seen as more violent?

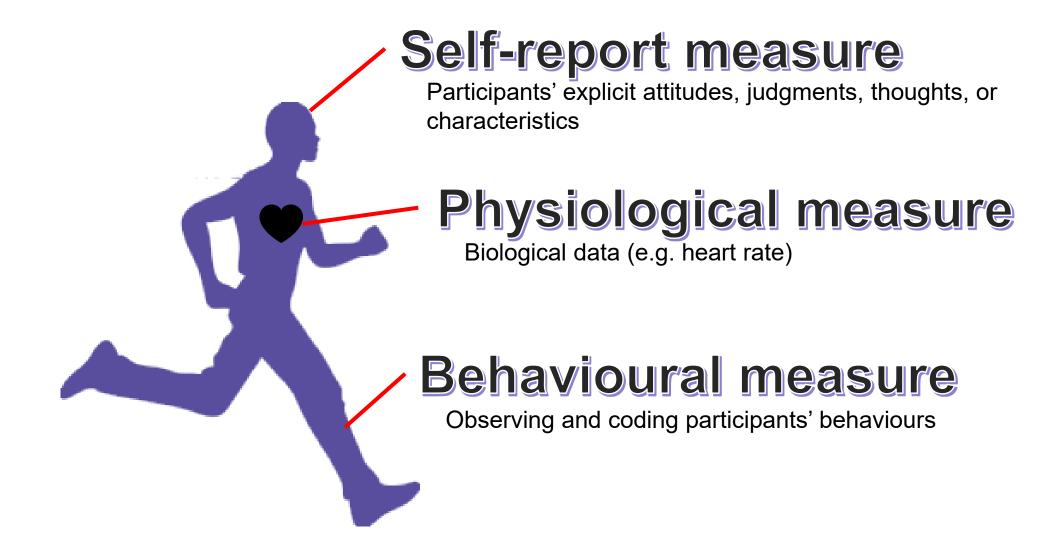
Condition II





Seen as less violent?

### Types of measures



### Your turn! – Idea blitz

Self-Report:	Behavioural:	Physiological:
-	-	-

# How do we ask questions

Open-ended questions

Closed-ended questions

### Rating scales

Rating scales often ask participants about "degrees" of judgments

Anchors/Labels

How anxious do you feel right now?

	Not at all				Extremely
,	1	2	3	4	5

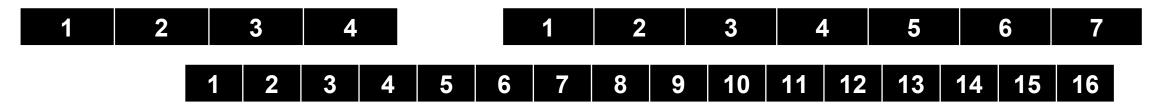
Numbers/Alternatives

Strongly Disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1	2	3	4	5

Likert scale vs. Likert-type scale

# Considerations for rating scales

How many numbers/alternatives do you provide?



How many anchors/labels do you provide?

None	A little	Some		more	I DON'T KNOW	DON'T	LOT			A WHOL E LOT
1	2	3	4	5	6	7	8	9	10	11

None					I DON'T KNOW					A WHOLE LOT
1	2	3	4	5	6	7	8	9	10	11

# Considerations for rating scales

What do you actually give as anchors?

None	A little	Some	A lot
1	2	3	4

None	Sometimes	Often	Always
1	2	3	4

None	Some	A lot	Extreme amount
1	2	3	4

### Other types of scales...

Semantic differential scale Donald Trump is... **Great Greatest** president president Non-verbal scale **WBFPS** <u>ф</u> <u>ම</u>ි 00 5 > 33

### Other types of scales...

#### Forced choice

- "On Saturday nights, I like to:
- \_\_ Pillage an abandoned farm
- \_ Get hammered like nobody's business
- \_\_ Party like it's 2009
- \_\_ Cry into my tub of Ben & Jerry's ice cream alone in the dark
- CAT VIDEOS
- \_\_ Watch Brooklyn 9-9 marathons"

- 5. On which issues does the mainstream media do the worst job of representing Republicans? (Select as many that apply.)
  - Immigration
  - Economics
  - Pro-life values
  - Religion
  - Individual liberty
  - Conservatism
  - Foreign policy
  - Second Amendment rights

- Issues to keep in mind when writing questions:
  - Double-barreled questions
  - Loaded/leading questions
  - Negative wording
  - Yea-saying/nay-saying
  - Fence-sitting



How not to create a survey

Mainstroam Media Accountability Survey

# Double-barreled questions

13. Do you believe that political correctness has created biased news coverage of both illegal immigration and radical Islamic terrorism?

- Yes
- O No
- No opinion

19. Do you believe that the media uses slurs rather than facts to attack conservative stances on issues like border control, religious liberties, and ObamaCare?

- Yes
- O No
- No opinion

- Issues to keep in mind when writing questions:
  - Double-barreled questions
  - Loaded/leading questions
  - Negative wording
  - Yea-saying/nay-saying
  - Fence-sitting

# Loaded/leading questions

1. Do you believe that the mainstream media actually cares about working Americans?

○ Yes

O No

No Opinion

- Issues to keep in mind when writing questions:
  - Double-barreled questions
  - Loaded questions
  - Negative wording
  - Yea-saying/nay-saying
  - Fence-sitting

### Negative wording

14. Do you b	elieve that contrary to what the media says, raising taxes does not create jobs?
0	Yes
0	No
0	No opinion
0	Other, please specify:

- Issues to keep in mind when writing questions:
  - Double-barreled questions
  - Loaded questions
  - Negative wording
  - Yea-saying/nay-saying someone who disagrees (or agrees) with all items
  - Fence-sitting

# Use reverse-scored questions

We need to have extremely strict gun control

Agree 1 2 3 4 5 Disagree

Absolutely everyone should be free to own a gun without any checks

Agree 1 2 3 4 5 Disagree

Yay-saying – Agreeing with the questions regardless of the content

Naysaying – Disagreeing with the questions regardless of the content

Fence-sitting – Being neutral with the questions regardless of the content

- Issues to keep in mind when writing questions:
  - Double-barreled questions
  - Loaded questions
  - Negative wording
  - Yea-saying/nay-saying
  - Fence-sitting someone who is "neutral" on all items

# Get rid of neutral alternatives

Strongly Disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1	2	3	4	5

Strongly disagree	Disagree	Agree	Strongly agree
1	2	3	4