

Research Methods Concepts

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As we move through each concept, "raise your hand" if you feel you could explain the concept

Some research terms you should know

- Variables
- Theory
- Theory testing
- Hypotheses
- Descriptive and inferential analysis

Research design

- · A sufficiently0sized, representative sample
- · An independent measures design
- · A factorial design
- A covariate

Data analysis

- · Variance and standard deviation
- Statistical significance
- Effect size
- Power

Lesson for today:

Let's talk about the relationship between sample size, effect size and significance

- https://christopherjwilson.shinyapps.io/app1/
- Remember: Cohen's d =

$$M_1-M_2/\sqrt(s_1^2+s_2^2/2)$$