

Inferential Statistics

- Inferential Statistics

- A branch of stats that deals with inferring characteristics about the population from characteristics of samples
- E.g. Sample, Population, Generalization

Why is this important?

- The purpose of inferential stats is to allow us to "infer" something about the entire population from testing only a small sample of that population

Selecting a Statistical Procedure: An Overview

- Is your study quantitative or qualitative?

- Qualitative Data

- Uses variables that are nominal/categorical

- Example

- Religion, Race, Direction

Qualitative Data

- Options:

- Chi-Square Analysis

Assesses the relationship between different sets of frequencies (how often something occurred)

Quantitative

Relationships

- trying to find relationships between two or more variables

- The prediction of one variable from knowledge of one or more other variables

- Correlations (two variables) and Regression (multiple variables)

Differences

- Trying to find differences between levels within a variable
- Example: Differences between men's and women's perception of crime
 - IV: Gender (Male and Female)
 - DV: Perception of crime
- Measuring differences between levels (M and F)
- T-tests and Analysis of Variance (ANOVA)
- T-tests evaluate the likelihood of a particular difference between treatment means by computing the statistic test t .
