# Steps of an Analysis

SSEP 2022 Morning Day 7

Dr. Ab Mosca (they/them)

### Analysis

#### Confirmatory Data Analysis

- Using data to test a specific, statistical hypothesis
- Requires statistical modeling

#### Exploratory Data Analysis

- Becoming familiar with and understanding data through summarization of variables and visualizations
- May use statistical modeling, but doesn't have to

### Analysis

#### Confirmatory Data Analysis

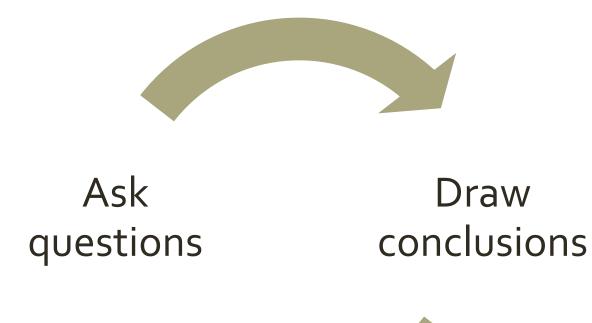
- Using data to test a specific, statistical hypothesis
- Requires statistical modeling

#### Exploratory Data Analysis

- Becoming familiar with and understanding data through summarization of variables and visualizations
- May use statistical modeling, but doesn't have to

# Exploratory Data Analysis

- 1. Think critically about the data
- 2. Explore:





# Exploratory Data Analysis

Think critically about the data

#### Ask questions like:

- Who collected this data? What biases might come from this?
- What is included in this dataset? What data is missing?
- What data types am I working with?
- How clean is the data?

## Exploratory Data Analysis

#### 2. Explore:

