PS0700 Descriptive Statistics

1. File Description

File is "job_training.teaching.dta". Random sample of 474 public employees in a midwestern city, some treated in a training program to improve skills (a quasi-experimental data set)

2. Load Data

```
# install.packages("haven")
# Install Haven library to read .dta file if you haven't
library(haven)
data <- read_dta("job_training.teaching.dta")
# Save .dta file to "data"</pre>
```

3. Frequency Distribution of a Norminal Variable

```
## Female 227 0.478903 0.478903
## Male 247 0.521097 1.000000
```

4. Frequency Distribution of an Ordnial Variable

NOTE

- 1. "Prior work experience" is an ordinal variable. (right?)
- 2. "Frequency" is the raw number of cases in a given category.
- 3. "Percent" is the raw number of cases in a given category divided by the total number of cases (in the case, 474), multiplied by 100 (Formula: pct(i)=(f(i)/N)*100)
- 4. "Proportion" is a percentage divided by 100 (or f(i)/N). So the proportion with more than two years of work experience is 0.3882, or 0.39.
- 5. CANNOT compare raw frequencies across samples unless sample size is identical, so use percentages or proportions instead.
- 6. "Cumulative percent" is the cumulative percentage of cases in that category or below (e.g. 40% of all individuals have 6 months or less of work experience, 61% individuals have 2 years of work experience or less.)
- 7. CAN calculate cumulative percentage ABOVE a given category as well with formula: 100-(Cumulative Percentage Below)