

Univariate Linear Regression

- Chapters Eight, Nineteen, Twenty and Twenty One
- Chapter Eight
 - Basic Problem
 - Definition of Scatterplots
 - What to check for

Basic Empirical Situation

- Unit of data.
- Two interval (or ratio) scales measured for each unit.
 - Example: observational study, independent variable is score of student on first exam in AMS315, dependent variable is score on final exam.
 - Objective is to assess the strength of the association between score on first exam and final.

Scatterplot

- Horizontal axis: independent variable
- Vertical axis: dependent variable
- One point for each unit of data.
- Draw by hand or use computer
 - graphs, scatterplot