

CHAPTER OVERVIEW

13: Introduction to Linear Regression

Linear regression is a very powerful statistical technique. Many people have some familiarity with regression just from reading the news, where graphs with straight lines are overlaid on scatterplots. Linear models can be used for prediction or to evaluate whether there is a linear relationship between two numerical variables.

[13.1: Prelude to Linear Regression](#)

[13.2: Line Fitting, Residuals, and Correlation](#)

[13.3: Fitting a Line by Least Squares Regression](#)

[13.4: Types of Outliers in Linear Regression](#)

[13.5: Inference for Linear Regression](#)

[13.6: Exercises](#)

This page titled [13: Introduction to Linear Regression](#) is shared under a [CC BY-SA 3.0](#) license and was authored, remixed, and/or curated by [David Diez, Christopher Barr, & Mine Çetinkaya-Rundel](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.