

## CHAPTER OVERVIEW

### 5: Confidence Intervals

In this chapter, you will learn to construct and interpret confidence intervals. You will also learn a new distribution, the Student's-t, and how it is used with these intervals. Throughout the chapter, it is important to keep in mind that the confidence interval is a random variable. It is the population parameter that is fixed.

[5.1: Prelude to Confidence Intervals](#)

[5.2: A Single Population Mean using the Normal Distribution](#)

[5.3: A Single Population Mean using the Student t-Distribution](#)

[5.4: A Population Proportion](#)

[5.S: Confidence Intervals \(Summary\)](#)

---

This page titled [5: Confidence Intervals](#) is shared under a [CC BY 4.0](#) license and was authored, remixed, and/or curated by [OpenStax](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.