

Bayesian basics

Technical objective: Understand the general premises and mechanisms of the Bayesian approach to statistical analysis

Substantive objective: N/A

1 Frequentist vs. Bayesian statistics

At some point in your education, you've probably learned about statistics, whether that be from a class, a book, or a YouTube video. When students learn about statistics in school, they typically learn what is called *frequentist statistics*. Frequentist statistics covers topics such as null hypothesis significance testing, p -values, and confidence intervals. You may be surprised to learn that this standard set of statistical methods is really more of a framework — a framework that is increasingly being called into question.

A link that provides some good explanations for students' future use: https://www.austincc.edu/mparker/stat/nov04/talk_nov04.pdf

TODO: provide sufficient mathematical detail/scaffolding to set people up to really *understand* Bayesian methods