



## Advanced Topics

- There are many topics in advanced statistics that we haven't even touched on
  - Bayesian Methods
  - Categorical Data Analysis
  - Biostatistics/Survival Analysis
  - Epidemiology
  - Multivariate Methods
    - Factor Analysis
    - Discriminant Analysis
    - Cluster Analysis



## *Classical vs Bayesian Statistics*

- The classical, or frequentist, perspective is that the probability of an event is defined as the frequency with which it occurs in a long sequence of similar trials
- The Bayesian, or subjectivist, perspective is that the probability of an event occurring is the degree of belief a person has in the occurrence















