

M358K: September 6th, 2023.

Simple Modeling.

Focus. Figuring out a model for relative likelihoods of possible values of your random variable.

Named Distributions w/ parameters

e.g., Binomial(n , p) the parameter of interest

Poisson(λ)

Exponential($\lambda = \frac{1}{\theta}$)

Normal (mean = μ , sd = σ)

*** Even if we don't name a dist'n, we can still be interested in the average behavior, i.e., the estimate of the mean. ***

Fit. Collect your data. Plot the data. ←

Figure out the **SHAPE**.

Propose a model and estimate the parameters.

EXPLORATORY
DATA
ANALYSIS