STT 465

Normal Model

Normal Model

$\Rightarrow$ Normal Model

$\Rightarrow$ Likelihood Function

$\Rightarrow$ Maximum Likelihood Estimation

$\Rightarrow$ Bayesian Model (conditional on the variance)

      - Model

      - Derivation of the posterior distribution

      - Posterior mean and posterior variance

      - Comparison with MLE (variance, bias & MSE)

      - Predictive distribution

Normal Model

Wednesday

⇒ Joint inference on the mean and variance
   - Conjugate prior (will discuss the relationship between Gamma, Inverse
     Gamma and scaled inverse chi-square distributions)
   - Composition Sampling

⇒ Gibbs Sampler (start our discussion about it, will continue on Monday next week)
   .