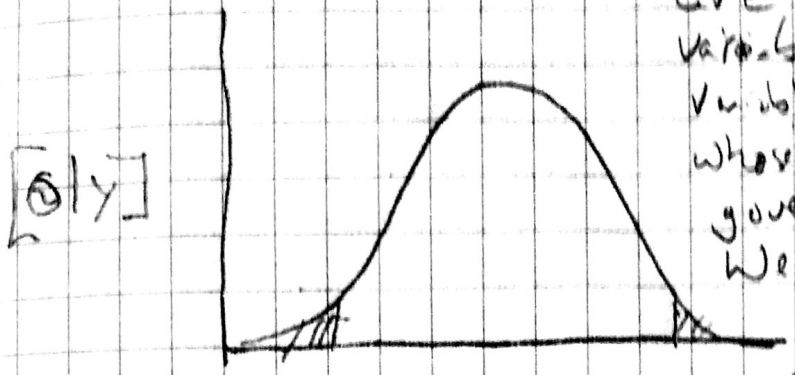
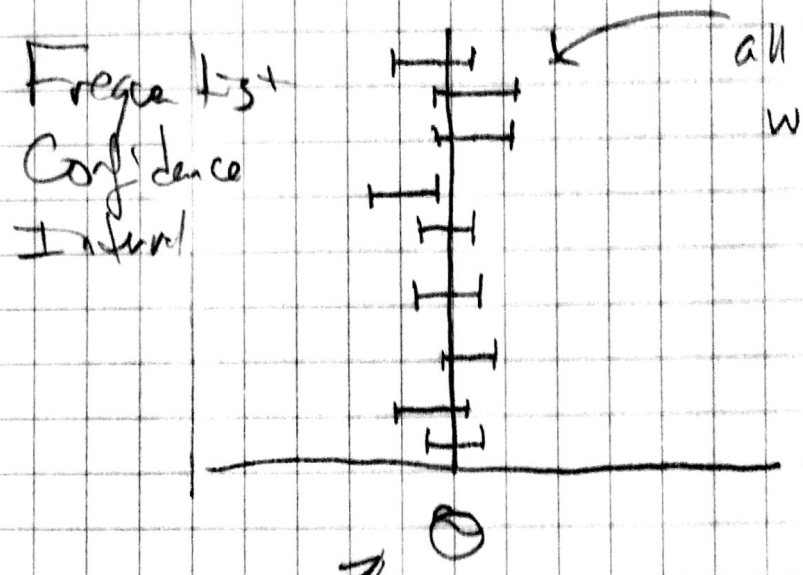
Bayesian Credible Interval

All unobserved quantities are treated as random variables. A random variable is a quantity whose behavior is governed by chance. We seek to understand the probability distribution controlling the behavior of these random variables.

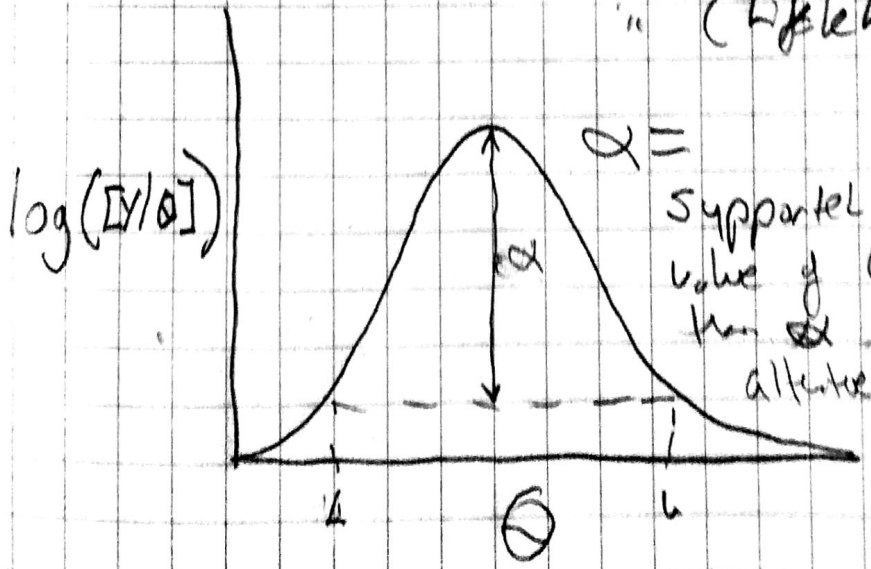


random



Fixed

Profile Confidence Interval (Likelihood)



$2 * \alpha \sim \chi^2_1$