

How to set prior?

- (1) Plot various curves (different hyperparameters)
- a) Set prior sample size.
- Solving for hyperparameters using mean & variance formulas
- 4) Prior probability intervals

9beta(0.028, a.b) = lower 9 beta (0.975, a,b) = Upper

q beta (0,025, 2,8) posterior exers

primary concepts

- conjugate priors.
- set a reasonable prior.
- -getting the posterior.
- how to summarize the POSKITOR (MAP, EDDIY), Posterior probabilities)
- tri-plot interplay

2nd concepts

- Constant of prophonality

 $(0,\infty)$

thin

. these

 $\frac{1}{1} = \frac{\sum_{i=1}^{n} x_i}{n} \Rightarrow \sum_{i=1}^{n} x_i = n x$ Normal "ormal = (x,,x2.,,xn) M X;~N(u, 02) u~N(m, s2) hyperporometers $\mu | \chi \sim N(\mu_n, \sigma_n^2)$ posterior parameter. 01x~ exp{ (11-161)2