Boyesian Inference

Continuous Variables

Continuous-) Normoli Uniform Beta, Gamma Discrete -> Binamial, Paisson

Prior Elicitation

Promes from B distribution. (beta family)

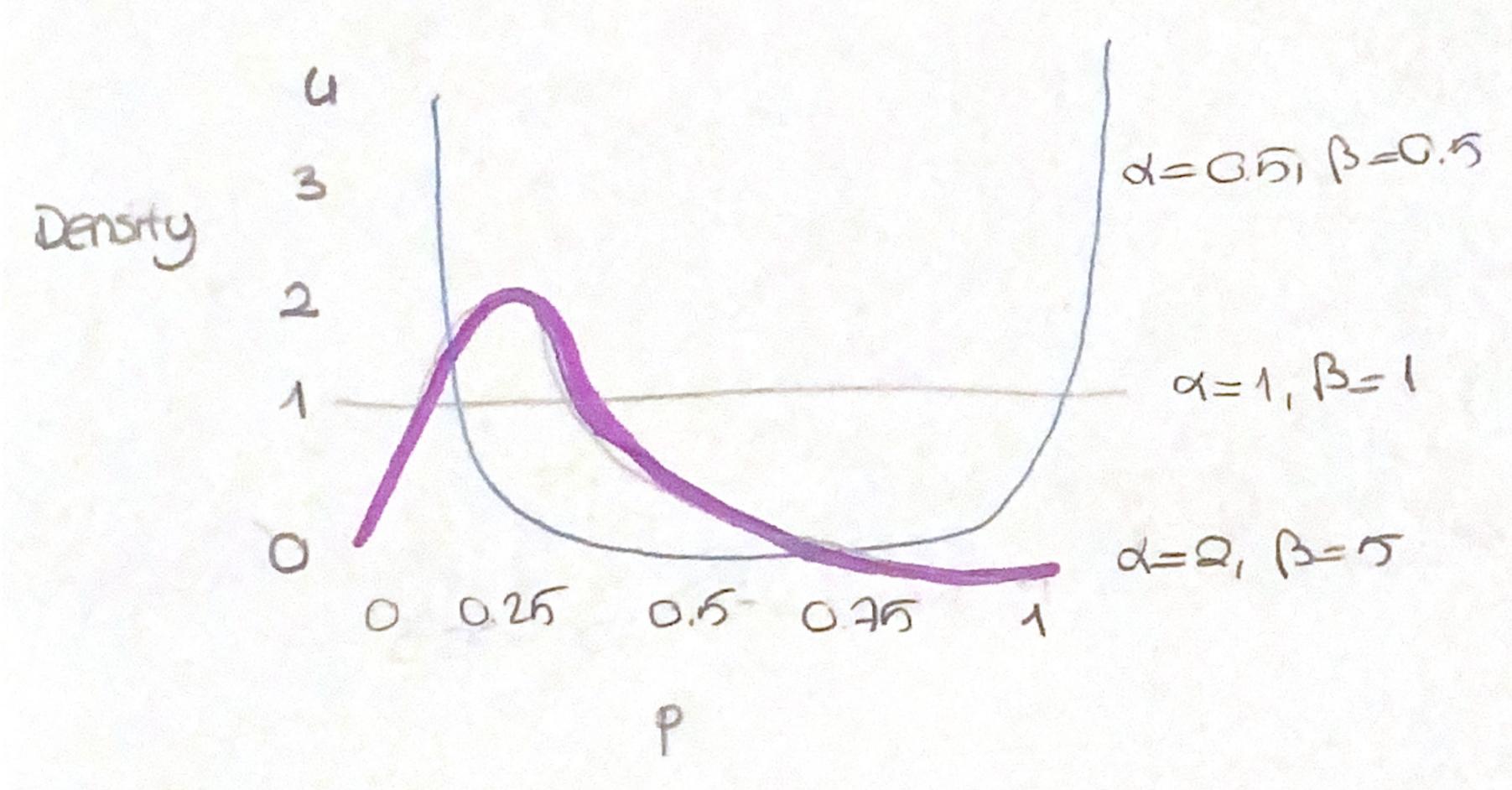
Probeta (a, B)

if $\alpha = \beta - 1 \rightarrow beta distribution is uniform.$

E(p) = a d -> prior number of success.

B -> prior number of failures

If a= B-> symmetrical



Conjugacy

Prior Beliefs -> Bin (n,p) n known punknown beta (a, B)

Observed -> x success in n+riols
density: P1xN beta(x+x, B+n-x)

Capugacy occurs when posterior distribution is in the same family of prob density functions with prior belief.