

- We want to introduce some dependency between the different player's avgs.
- This allows the information in the joint distribution of all players to inform individual estimates.
- All estimates p_i come from the same distribution, and, therefore, depend on each other.

 $y_i \sim Binomial(n_i, p_i)$

$$p_i \sim Beta(\nu_1, \nu_2)$$

$$\nu_1, \nu_2 \sim lognormal(0, 1)$$

• y_i : number of hits • n_i : number of attempts

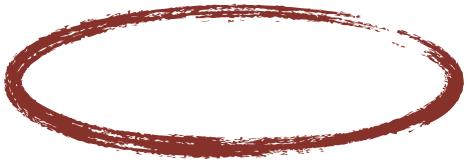
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Model:





Hyper parameters





Hyper priors

HYPER PARAMETERS

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BASEBALL IN ULAM