## Lecton 5

We now know how to get estimates for a, b in the two competing models.

But these are estimates. How to sa gauge the variability of these estimates?

Answe: parametriz book strapping.

idea - use Monte Carlo simulation to construct sampling distribution for our parameter estimates a, B

Let  $a_i^b = boolstrap$  parameter estimate for a (i=1,2,...,N)

A = distribution of bookstry samples ab

A = "true" distribution of samples parameters at from samples.

Then  $A \longrightarrow A$  as  $N \longrightarrow \infty$ 

bootstay principle.

