Lecture 8:

Parameter recovery

How well do our mode

How well do our model fitting roletines work?

Find out using parameter recovery simulations

6 based on Farrell & Ludwig (2008), PBR, 15, 1209-17

hierarchial

Step 1 - assume a data-generating process.

For RTs, we assume an individual's RT distibution is drawn from ex-Ganssim density with parameter \$\mu\_i\, \tau\_i\, \tau

In symbols,

 $\mu_i \sim Normal (r_i, r_2)$ 

02 ~ Inv Gamma (d, , dz)

Ti ~ Inv Gamma (B,, B2)

follower by

RTi ~ ExGanssin(µi, oi, ti)

Population:

/ p

T\_\_\_\_

1

Individuely:

μ,σ,τ,

42, 02, T2

HN, ON, TN

١

T

RT2,1

RTNI

RT, 2

RTZIZ

RTN, 2

rvedions

9

.

RTIG

Riz p

RT, J