W/ Interactions

• When use interaction? → if your asnuer includes "it depends"

ex. Price per Soft of a home. Well, it depends on location.

Price ~ Soft *City

use interaction what slopes are expected

to be different.

TOCT MAL

Simple linear regression # 1 line TOUT = Bo + B. (MBL) 1 slope

Multiple (W/O interaction) / 2 line some slope DOCT = Bo + B, (MOL) + x2 (Sex F)

Multiple linear Regression W interactions

(male and female line should have different slopes)

IOCT = BO + B, (MDL) + B2 (SEXF) + B3 (MDL * SEXF

Male: Tocr = Bo + B, (MOL)

Female: IOCT = BO + B, (MDL) + Bz (Sexf) - B3 (MBL & Sexf)

IOCT = (Bo + Bz) + (B, + B3) (MDL)