Today's Agenda

- Multrollinery Ex Discussion

- Spring luterpretation of Multirallin

- Firmsh up Modelly Prots

7 Non Namel Klesids

5 Non Juneary Liverap)

- More on Interactions

 $3 = VD^{-1}V^{-1} = V(\frac{1}{2})$

Modeling Problems
-Non Novacity of residuels
Uts say you fit a regression, plot the
resids ul a histogran de it looks
ast word (APP) tels).
Good Fis Still Blut
and of Name of the Nas reeded for inference
Cottests
5CIS

If n>>> of then a centre limb Theorem type result gives us the fact that (B-B) (D) N(O, Var(B)) / B ~ N (B) W(B)) For this reason, if his large this assurption is the "least inverted to sleep. How to check Ner-Mond, Ty? - Alstogram of Nasidnals _ & Plot - Tests & Normality: Dyan Dever Colugaron-Smins

Ho-resins are Mind e = F 1): resids exhibit significant descritic Skew The paramete: $E(\frac{e_1}{\sigma})$ sample shermess LZi (ei) [n/0815] True parameter $t\left(\left(\frac{e_i}{\delta}\right)^{\gamma}\right)$ sample Entosis 72 (ei) 4 Onnibus K-Squared Donality Test Kstat = $(Z, (g, 1)^2 + (Z_2 (g_2))^2$ $Z_1 (g_2)^2$ Special Special for special $(X_1 + X_2)^2$ $X_2 (1-d) \Rightarrow \text{reject to}$

Jarque Dera Test: Contining Skewness & Empsis JBGet - N-B (9,) + (9,) / 4 (9,) / whisis Unell Ho. Bstat VX2 Idea, If you have low hornel resids I you don't frust the asymptotis cz, Consider lising 1200tz larp CI. Folse Wrearity If nontrearly exists: 1) transform y (which out Noter Instro 2 tonska x 3 transform y & X (potentially les fatur)



